

OPTICAL SOLUTION SERVICE PROVIDER



Add: 3rd Floor, Building C, Zhongyu Green High-tech Industrial Park,
Heshuikou Community, Matian Street, Guangming District, Shenzhen

TEL: (86) -755-88214036

FAX: (86)-755-88214175

E-mail: rcoola@rcoola.com

Official Website: <http://www.rcoola.com>

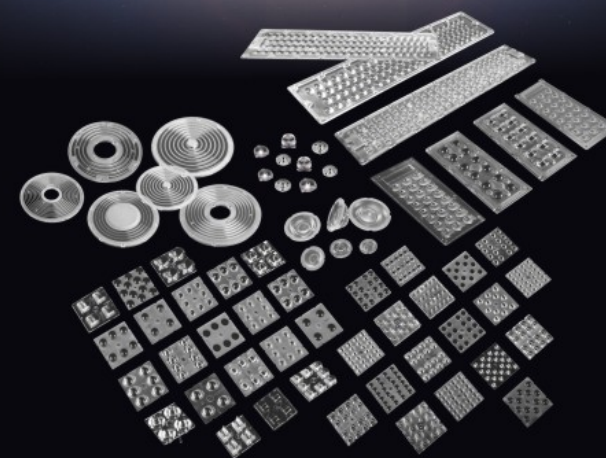
Business Support, WhatsApp/Skype/WeChat: +86 1985 4979 007

2025年 第1版



Optical Efficiency Leader

POWERED BY  **MANLUX**



**Illuminate the Future with Light
Create with Wisdom and Insight**

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RCOOLA was founded in 2014 and established its subsidiary RUXANE in 2022. RCOOLA focuses on optical design, optical mold manufacturing, precision injection molding and a variety of high-end, high-precision, non-standard optical lens injection molding development.

Our factory is located in Guangming District, Shenzhen, covering 12,000 m², equipped with 45 high-precision injection molding machines and various imported high-precision testing instruments. In 2024, we invested in a 20,000 m² plant and 55 injection molding machines in Triangle Town, Zhongshan City, planning an annual output value of RMB150 million, aiming to optimize production and operating costs to improve production capacity to meet customer order demands.

RCOOLA has a passionate and promising R&D team consist of professional engineers with more than 15 years' experience, injection mold designers and production staff, sales and customer service team, etc. Thus we're able to provide high-quality, innovative products and attentive services to customers worldwide. Furthermore, RUXANE focus on optical design, optical mold manufacturing, precision injection molding and the development of various high-end and high-precision non-regular optical lens injection molding.

Besides, we introduce global-advanced technologies and equipment such as nano-level ultra-precision mold processing equipment, Japanese precision injection molding machines, precision testing equipment, etc. All of these contribute to an all-in-one production system, consist of independent design, research and development, manufacturing and molding. Besides, we have passed ISO9001-2015 Quality Management System Standard, TS16949 Quality Management System and ISO14001 Environmental Management System certifications. We has perfect optical inspection standards and various precision optical measuring instruments such as UA3P, profirole, 3D, high-power microscope, spectrophotometer, focimeter Trioptics Pro9 MTF, G30D inverted laser interferometer, Analytic inverse projector and Transmission Centroid Device and so on.

RCOOLA mainly deals in LED lenses(for LED lighting product), Optical lenses such as projection lenses, AR optical components, medical lenses, intelligent induction, vehicle projection and sensors components.

RUXANE mainly deals in Optical lens head (including assembled lenses) such as face recognition, video doorbell, drone, law enforcement instrument, driving recorder, smart home, hunting camera and Industrial AI detection lens.

We adheres to the business philosophy of "Quality First, Customer Supreme, Innovation Driven and Win-Win Cooperation", and thus spares no efforts to provide customers with high-quality, preferential and highly competitive optical lens products!



Customized unique lens for your Luminaire. Turn around time: within 15-40 days. RCOOLA Team can support your optical design, prototyping, tooling construction through mass production. One stop solution ensures products with consistent performance and quality.

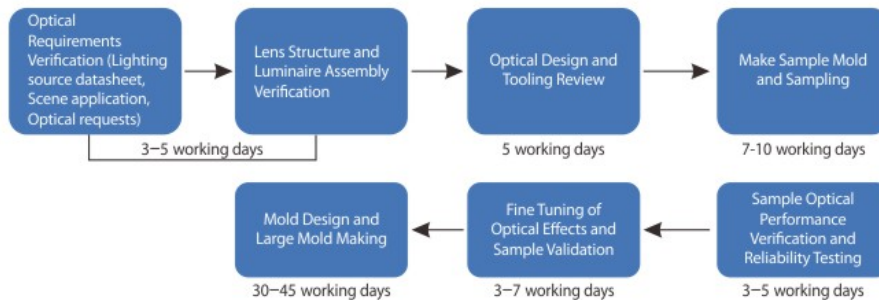
Core Competence

- Professional team of Optical engineer, Mechanical engineers, Project Management engineers and Process engineers.
- Optical Design and Simulation with Specified software;
- Engineering Support; OEM ODM services;
- Tooling Design & Manufacture: In House Tooling Production, Dedicated Tooling Team;



- Testing Support Service for Optical Lab and Reliability Lab;
- Mass Production: Customized cavity lens mold according to order demand, Sufficient Capacity.

Customization Process



Core Advantages

Research and Development Capability ※ Optical engineer: 12 people ※ Project engineer: 10 people ※ Mold design: 5 people ※ Process engineer: 4 people	Mold Processing ※ TOSHIBA ULC=100D ultra-precision machining ※ Precision CNC machining ※ Precision EDM machining ※ Mold Monthly Capacity: 30-80 units	Optical Testing Laboratory ※ Remote photometric distribution meter GO-2000 ※ UA3P three-dimensional morphology measuring instrument ※ Zeiss High Performance coordinate measuring Machine Reliability Laboratory	Injection Molding Capacity ※ Three production workshops covering hundreds to thousands of production environments. ※ Injection molding machine size covers 30T-1000T. ※ Injection Molding Machines Number: 63 units.
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If you want to customize a lens, please contact our Sales Department, so that we can provide you with the best solution according to your requirements.



Precision CNC Workshop



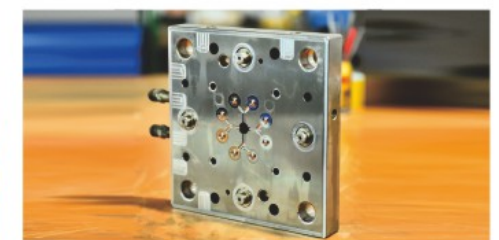
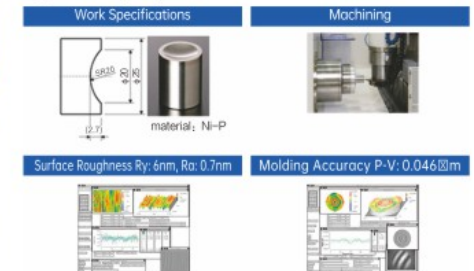
Sodick Spark Machine



Mold Manufacturing Dept. / Molding Department

Imported Ultra-Precision Machining Center

TOSHIBA ULC-100D(S)
TOSHIBA ULC TOSHIBA ULC Series is designed to manufacture free-form surfaces and aspheric lenses and their respective molds with high efficiency and precision.



Optical Lens Molds

Mold Manufacturing

Ten thousand level dust-free production workshop adopts Japanese electric precision injection molding machine to produce lighting and light box lenses, ensuring the product manufacturing environment and accuracy requirements.

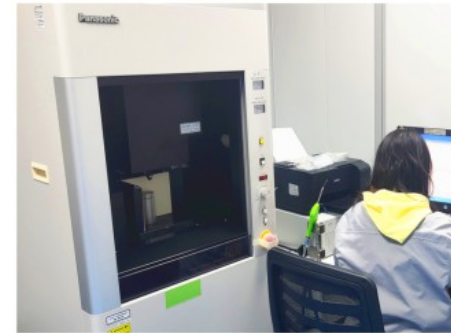


Dust-Free Injection Molding Workshop

Class 10,000 and Class 1000 dust-free production workshops use Japan's Fanuc and Toshiba all-electric precision injection molding machines to ensure product manufacturing environment and precision requirements.



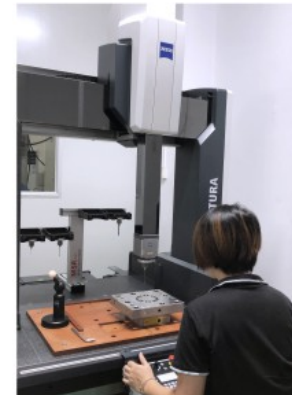
Thousands of dust-free assembly workshops to ensure product manufacturing environment and precision requirements.



UA3P three-dimensional morphology measuring instrument



High Precision Surface Measurement Instrument



ZEISS CMM CONTURA



2D Measuring Instrument



TESA Height Gauge



Microscope



Hardness tester



Sanfeng altimeter

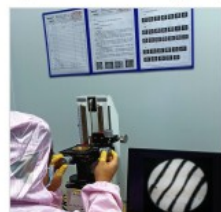


Fully automatic focimeter



HIKVISION Thermograph

Optical Testing Equipment



G30D inverted laser Interferometer



Optical reverse projector



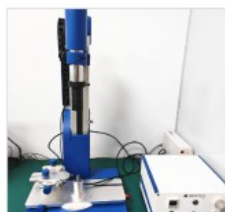
Transmission Centroid Device



Spectrophotometer



Trioptics-Pro9 MTF Lens test parsing /EF



Trioptics-Mot Lens deflection test

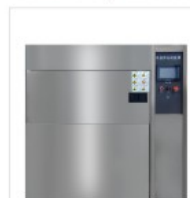


Lens action camera



EVERFINE GOSoft G0-2000

Reliability Laboratory



Temperature shock test chamber



Salt spray test chamber



Extreme temperature impact test chamber



Humidity and Temperature Test Chamber



UV accelerated weathering test chamber



Simulated Transport Vibration Table



Alcohol-resistant & Rubber Abrasion Tester



Sand and dust test chamber



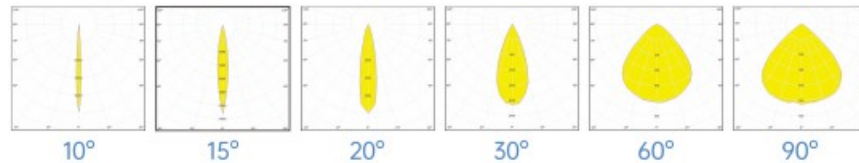
Single-sided Drop Tester



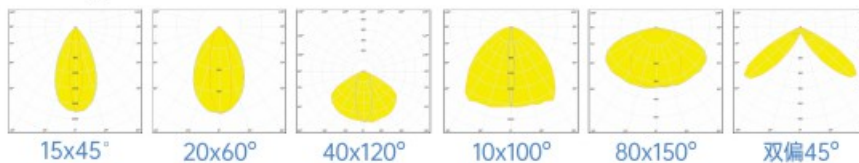
49 Utility Model Patents
8 Appearance Patents
5 Invention Patents



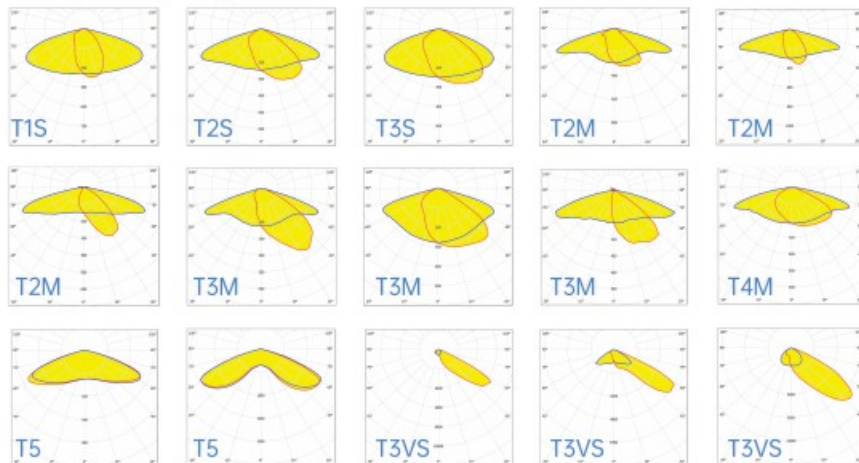
Circular light distribution curve



Linear light distribution curve



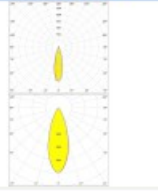
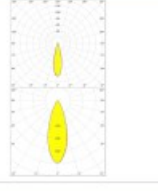
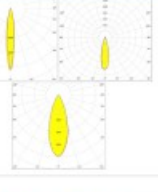
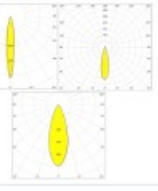
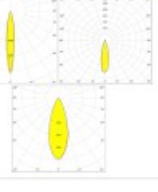
Street / area lighting distribution curve

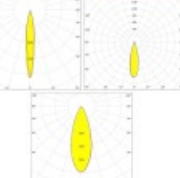


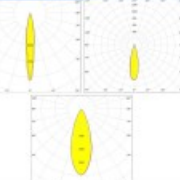
Widely used in indoor, outdoor and road lighting

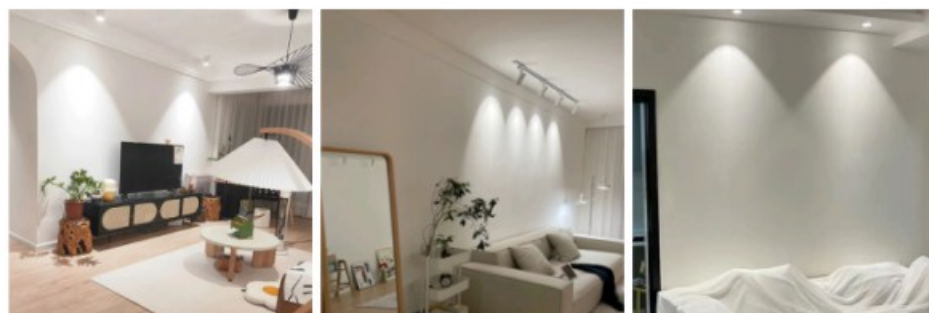


COB Lens

COB-2815	Material	Efficiency	Beam angle	LED	Candeia curves
	PMMA	92%	24° 36°	CREE:CXA1304/1310, CMA1303, CITIZEN: CLU701 LUMINUS: CXM-3/CXM-4 LUMILEDS: S01H4/S01H6/ S02H6/S01F06	
COB-3518	Material	Efficiency	Beam angle	LED	Candeia curves
	PMMA	92%	24° 36°	CREE:CXA1304/1310, CMA1303, CITIZEN: CLU701 LUMINUS: CXM-3/CXM-4 LUMILEDS: S01H4/S01H6/ S02H6/S01F06	
COB-4319	Material	Efficiency	Beam angle	LED	Candeia curves
	PMMA	92%	15° 24° 36°	CREE:CXA1304/1310, CMA1303, CITIZEN: CLU701 LUMINUS: CXM-3/CXM-4 LUMILEDS: S01H4/S01H6/ S02H6/S01F06	
COB-5022	Material	Efficiency	Beam angle	LED	Candeia curves
	PMMA	92%	15° 24° 36°	CREE:CXA1304/1310, CMA1303, CITIZEN: CLU701 LUMINUS: CXM-3/CXM-4 LUMILEDS: S01H4/S01H6/ S02H6/S01F06	
COB-6022	Material	Efficiency	Beam angle	LED	Candeia curves
	PMMA	92%	15° 24° 36°	CREE:CXA1304/1310, CMA1303, CITIZEN: CLU701 LUMINUS: CXM-3/CXM-4 LUMILEDS: S01H4/S01H6/ S02H6/S01F06	

COB-6929	Material	Efficiency	Beam angle	LED	Candeia curves
	PMMA	92%	15° 24° 36°	CREE:CXA1304/1310, CMA1303, CITIZEN: CLU701 LUMINUS: CXM-3/CXM-4 LUMILEDS: S01H4/S01H6/ S02H6/S01F06	

COB-7529	Material	Efficiency	Beam angle	LED	Candeia curves
	PMMA	92%	15° 24° 36°	CREE:CXA1304/1310, CMA1303, CITIZEN: CLU701 LUMINUS: CXM-3/CXM-4 LUMILEDS: S01H4/S01H6/ S02H6/S01F06	



S042-01
COB2815-24



S042-02
COB2815-36



COB 28mm



product link



L671-2
COB3518-24



L671
COB3518-36



Sample
with holder



COB 35mm



S038-03
COB4319-15
PC material



S038-04
COB4319-24
PC material

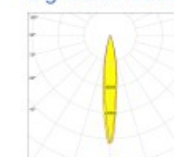


S038-05
COB4319-36



COB 43mm

Light Distribution



15°



S038-06
COB5022-15
PC material



S038-07
COB5022-24
PC material

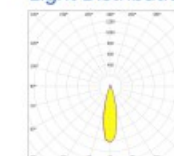


S039-08
COB5022-36
PC material



COB 50mm

Light Distribution



24°



S039-03
COB6022-15



S039-04
COB6022-24



S039-05
COB6022-36



COB 60mm



S039-06
COB6929-15



S039-07
COB6929-24

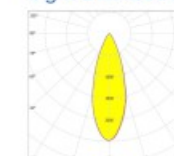


S039-08
COB6929-36



COB 69mm

Light Distribution



36°



S039-09
COB7529-15



S039-10
COB7529-24

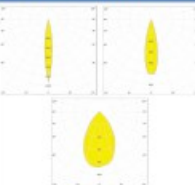


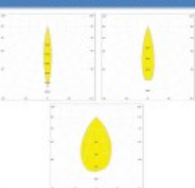
S039-11
COB7529-36

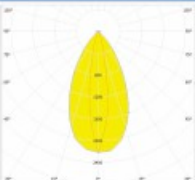


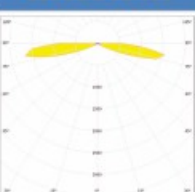
COB 75mm

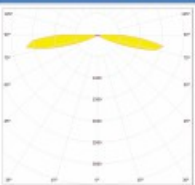
Single Lens

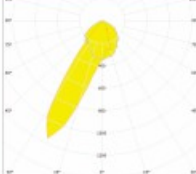
20mm-T20-A	Material	Efficiency	Beam angle	LED	Candela curves
 ø19.6×13.4	PMMA	92%	15° 25° 45°*	RGB3030 RGB5050 imitation lumens	

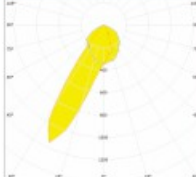
20mm-T20-B	Material	Efficiency	Beam angle	LED	Candela curves
 ø19.6×12.4	PMMA	92%	15° 25° 45°*	RGB3030 RGB5050 imitation lumens	

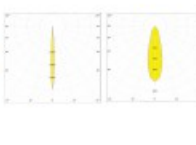
TW2835-S1	Material	Efficiency	Beam angle	LED	Candela curves
 ø25.9×12.2×2.6 ø22.5×10.3×1.5	PC/PMMA	93%	15X60°	3030 2835 3535	

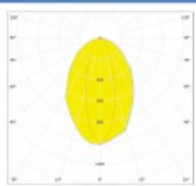
Freezer light stripe lens	Material	Efficiency	Beam angle	LED	Candela curves
 29.6×23.1×13.7	PC	90%	both sides 10X120°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/3535	

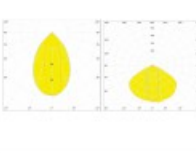
Freezer light stripe lens	Material	Efficiency	Beam angle	LED	Candela curves
 29.3×18.5×10.2	PC	90%	both sides 10X80°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/3535	

HBDTJA	Material	Efficiency	Uniformity	LED	Candela curves
 300×22×10.7	PC	90%	0.85	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/3535	

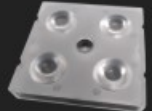
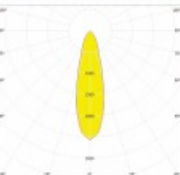
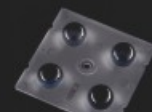
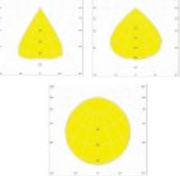
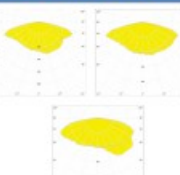
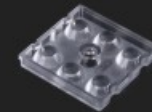
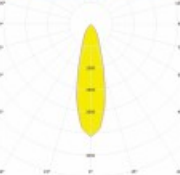
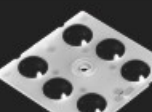
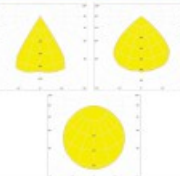
HBDTJB	Material	Efficiency	Uniformity	LED	Candela curves
 300×22×10.7	PC	90%	0.9	MANLUX PHILIPS LUMILEDS NICHIA 3030/2835	

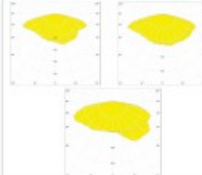
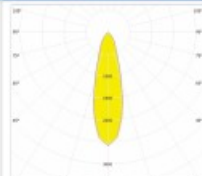
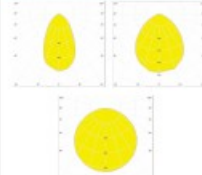
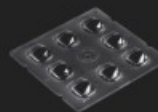
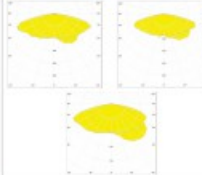
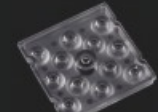
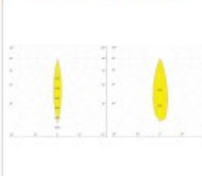
44mm3H1DB	Material	Efficiency	Beam angle	LED	Candela curves
 ø43.8×9.5	PMMA	90%	10°* 15° 20° 30°	MANLUX CREE XPE/XPE2	

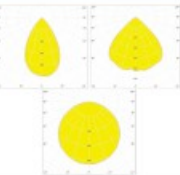
LD-90H1-T70×30	Material	Efficiency	Beam angle	LED	Candela curves
 256.5×78.5×7.2	PC	93%	30X70°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	

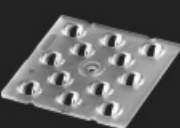
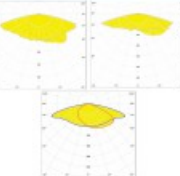
XTD25270-TX	Material	Efficiency	Beam angle	LED	Candela curves
 252×70×8.9	PC	92%	30x70° 40x120°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	

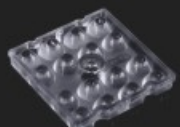
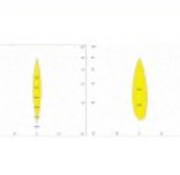
Outdoor and regional road lighting – 5050 series

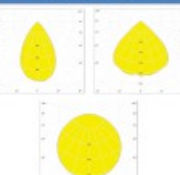
LD5050-4H1-T30	Material	Efficiency	Beam angle	LED	Candela curves
 49.8×49.8×7.5	PC	91%	30°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	
LD5050-4H1-TX	Material	Efficiency	Beam angle	LED	Candela curves
 49.8×49.8×8.5	PC	93%	60° 90° 120°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030*4 /5050	
LD5050-4H1-TXM	Material	Efficiency	Type	LED	Candela curves
 49.8×49.8×7.0	PC	93%	T2M T3M T4M	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030*4 /5050	
LD5050-6H1-T30	Material	Efficiency	Beam angle	LED	Candela curves
 49.8×49.8×7.5	PC	91%	30°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	
LD5050-6H1-TX	Material	Efficiency	Beam angle	LED	Candela curves
 49.8×49.8×8.5	PC	93%	60° 90° 120°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030*4 /5050	

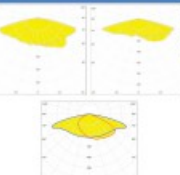
LD5050-61-TXM	Material	Efficiency	Type	LED	Candela curves
 49.8×49.8×7.0	PC	93%	T2M T3M T4M	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030*4 /5050	
LD5050-8H1-T30	Material	Efficiency	Beam angle	LED	Candela curves
 49.8×49.8×7.5	PC	91%	30°	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 5050/S8/ NV4W144AM	
LD5050-8H1-TX	Material	Efficiency	Beam angle	LED	Candela curves
 49.8×49.8×6.6	PC	92%	60° 90° 120°	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 5050/S8/ NV4W144AM	
LD5050-8H1-TXM	Material	Efficiency	Type	LED	Candela curves
 49.8×49.8×5.1	PC	93%	T2M T3M T4M	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 5050/S8/ NV4W144AM	
LD5050-12H1-TX	Material	Efficiency	Beam angle	LED	Candela curves
 49.8×49.8×7.5	PC	91%	15°* 30°	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 3030/S5/ 2835/757	

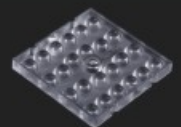
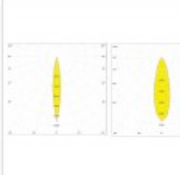
LD5050-12H1-TX	Material	Efficiency	Beam angle	LED	Candela curves
 49.8×49.8×5.6	PC	92%	60° 90° 120°	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 3030/S5/ 2835/757	

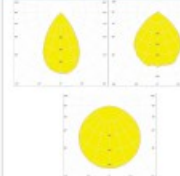
LD5050-12H1-TXM	Material	Efficiency	Type	LED	Candela curves
 49.8×49.8×4.6	PC	93%	T2M T3M T4M	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 3030/S5/ 2835/757	

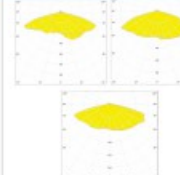
LD5050-16H1-TX	Material	Efficiency	Beam angle	LED	Candela curves
 49.8×49.8×7.5	PC	91%	15° 30°	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 3030/S5/ 2835/757	

LD5050-16H1-TX	Material	Efficiency	Beam angle	LED	Candela curves
 49.8×49.8×5.6	PC	92%	60° 90° 120°	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 3030/S5/ 2835/757	

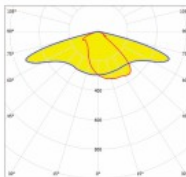
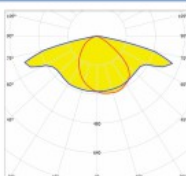
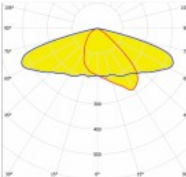
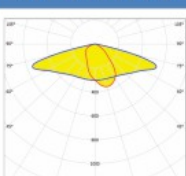
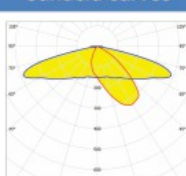
LD5050-16H1-TXM	Material	Efficiency	Type	LED	Candela curves
 49.8×49.8×4.6	PC	93%	T2M T3M T4M	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 3030/S5/ 2835/757	

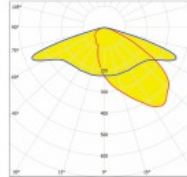
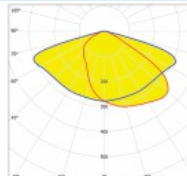
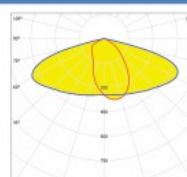
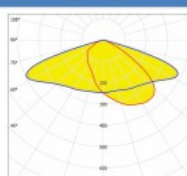
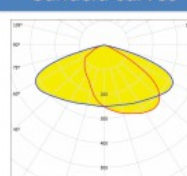
LD5050-24H1-T30	Material	Efficiency	Beam angle	LED	Candela curves
 49.8×49.8×5.1	PC	92%	15°* 30°	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 3030/S5/ 2835/757	

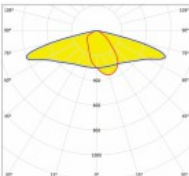
LD5050-24H1-TX	Material	Efficiency	Beam angle	LED	Candela curves
 49.8×49.8×4.2	PC	93%	60° 90° 120°	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 3030/S5/ 2835/757	

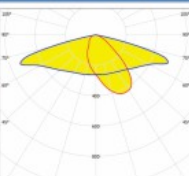
LD5050-24H1-TXM	Material	Efficiency	Type	LED	Candela curves
 49.8×49.8×4	PC	94%	T2M T3M T4M	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 3030/S5/ 2835/757	

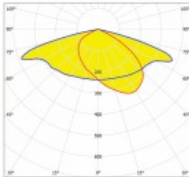
Outdoor and regional road lighting – 5050 North America Series

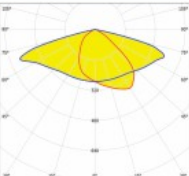
LD5050-4H1-T2M-ITL	Material	Efficiency	Type	LED	Candela curves
 49.9×49.9×8.45	PMMA	93%	T2M	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	
LD5050-4H1-T2M-B	Material	Efficiency	Type	LED	Candela curves
 49.9×49.9×6.55	PC	93%	T2M	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	
LD5050-4C1-T2M-C-FCO	Material	Efficiency	Type	LED	Candela curves
 49.9×49.9×6.7	PC	93%	T2M	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	
LD5050-0408C-T2M-FCO	Material	Efficiency	Type	LED	Candela curves
 49.9×49.9×6.9	PC	93%	T2M	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	
LD5050-0409C-T2M-DQ	Material	Efficiency	Type	LED	Candela curves
 49.9×49.9×6.9	PC	93%	T2M	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	

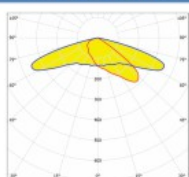
LD5050-0410C-T3M-DQ	Material	Efficiency	Type	LED	Candela curves
 49.9×49.9×6.9	PC	93%	T3M	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	
LD5050-0411C-T3M-FCO	Material	Efficiency	Type	LED	Candela curves
 49.9×49.9×6.9	PC	93%	T3M	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	
LD5050-6C1-T1S	Material	Efficiency	Type	LED	Candela curves
 49.9×49.9×7.0	PC	93%	T1S	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	
LD5050-0619-T2S	Material	Efficiency	Type	LED	Candela curves
 49.9×49.9×7.0	PC	93%	T2S	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	
LD5050-0625-T3S	Material	Efficiency	Type	LED	Candela curves
 49.9×49.9×6.8	PC	93%	T3S	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	

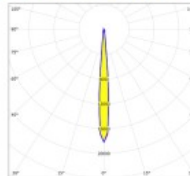
LD5050-6C1-T2M-E-FCO	LMaterial	Efficiency	Type	LED	Candela curves
	PC	93%	T2M	    5050	

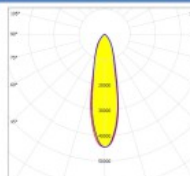
LD5050-6C1-T2M-DQ01	Material	Efficiency	Type	LED	Candela curves
	PC	93%	T2M	    5050	

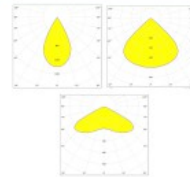
LD5050-6H1-T2M-C	Material	Efficiency	Type	LED	Candela curves
	PC	93%	T2M	    5050	

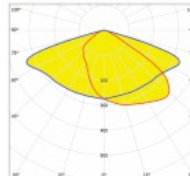
LD5050-6C1-T2M-C-FCO	Material	Efficiency	Type	LED	Candela curves
	PC	93%	T2M	    5050	

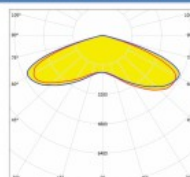
LD5050-6C1-T2M-D-FCO	Material	Efficiency	Type	LED	Candela curves
	PC	93%	T2M	    5050	

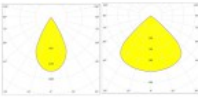
LD5050-6H1-T10	Material	Efficiency	Type	LED	Candela curves
	PC	94%	10°	    XPE / 3535	

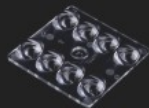
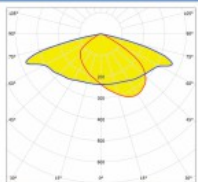
LD5050-6H1-T30-B	Material	Efficiency	Type	LED	Candela curves
	PC	94%	30°	    5050	

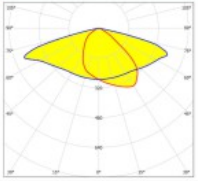
LD5050-6H1-TXX-B	Material	Efficiency	Type	LED	Candela curves
	PC	94%	60° 90° 120°	    5050	

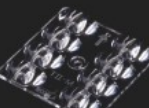
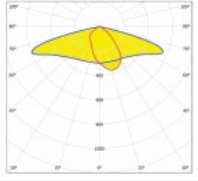
LD5050-6C1-T3M-B-FCO	Material	Efficiency	Type	LED	Candela curves
	PC	93%	T3M	    5050	

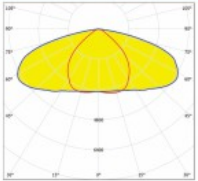
LD5050-0614-T5	Material	Efficiency	Type	LED	Candela curves
	PC	93%	T5	    5050	

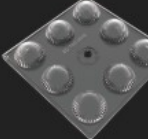
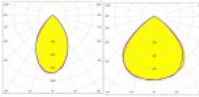
LD5050-8H1-TXX-B	Material	Efficiency	Type	LED	Candela curves
	PC	93%	60° 90°	    5050	

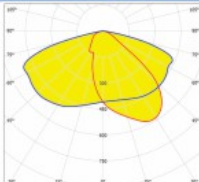
LD5050-8H1-T2M-C	Material	Efficiency	Type	LED	Candela curves
 49.9×49.9×6.6	PC	93%	T2M	    5050	

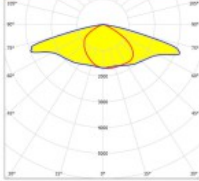
LD5050-8C1-T2M-C-FCO	Material	Efficiency	Type	LED	Candela curves
 49.9×49.9×6.7	PC	93%	T2M	    5050	

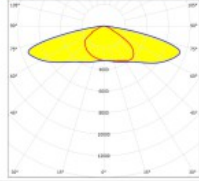
LD5050-8C1-T2M-E-FCO	Material	Efficiency	Type	LED	Candela curves
 49.9×49.9×6.9	PC	93%	T2M	    5050	

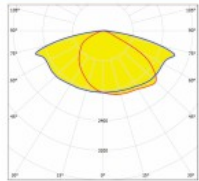
LD5050-0811-T90×150	Material	Efficiency	Beam angle	LED	Candela curves
 49.9×49.9×5.5	PC	93%	90×150°	    5050	

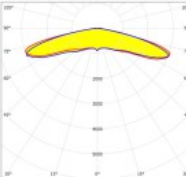
LD5050-0817-TXX-Zhaga	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	60° 90°	   3535	

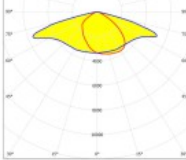
LD5050-0819-T2S-ZG	Material	Efficiency	Beam angle	LED	Candela curves
	PMMA	93%	T2S	   3535	

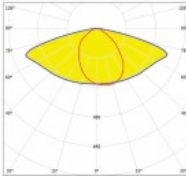
LD5050-1001-T2M	Material	Efficiency	Type	LED	Candela curves
 50×50×6.1mm	PC	93%	T2M	    5050	

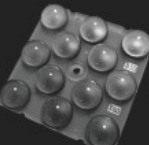
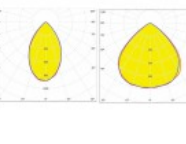
L207-0820 LD5050-0820-T2M	Material	Efficiency	Type	LED	Candela curves
	PMMA	93%	T2M	    5050	

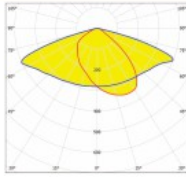
LD5050-1002-T3M	Material	Efficiency	Type	LED	Candela curves
 50×50×5.3mm	PC	93%	T3M	    5050	

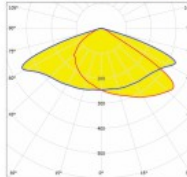
LD5050-1004-T5	Material	Efficiency	Type	LED	Candela curves
	PC	94%	T5VS	    5050	

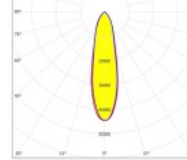
LD5050-10H1-T2M	Material	Efficiency	Type	LED	Candela curves
	PC	94%	T2M	    5050	

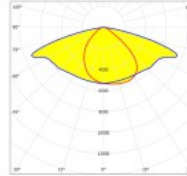
LD5050-1212-T2M	Material	Efficiency	Type	LED	Candela curves
 50×50×5.5mm	PC	93%	T2M	    5050	

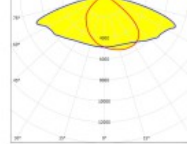
LD5050-12C1-TXX-B50	Material	Efficiency	Type	LED	Candela curves
	PC	93%	60° 90°	    5050	

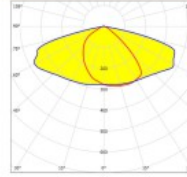
LD5050-12C1-T2M-B	Material	Efficiency	Type	LED	Candela curves
 50×50×4.9mm	PC	93%	T2M	     3030/S5/ 2835/757	

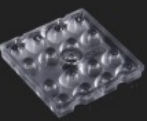
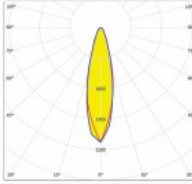
LD5050-12C1-T3M-B	Material	Efficiency	Type	LED	Candela curves
 50×50×5.1mm	PC	93%	T3M	     3030/S5/ 2835/757	

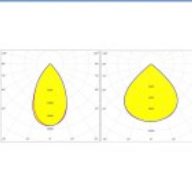
LD5050-10H1-T30	Material	Efficiency	Type	LED	Candela curves
	PC	94%	T2M	    5050	

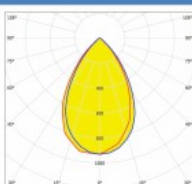
LD5050-12H1-T2M-D	Material	Efficiency	Type	LED	Candela curves
	PC	94%	T2M	    5050	

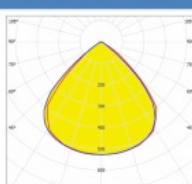
LD5050-14H1-T2M-C	Material	Efficiency	Type	LED	Candela curves
	PC	94%	T2S	    5050	

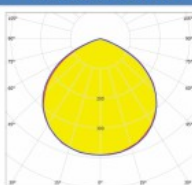
LD5050-14H1-T2M	Material	Efficiency	Type	LED	Candela curves
 49.9×49.9×4.5	PC	93%	T2M	     3030/S5/ 2835/757	

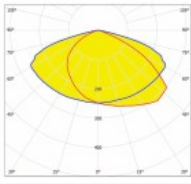
LD5050-16C1-T30	Material	Efficiency	Beam angle	LED	Candela curves
 49.8x49.8x7.5	PC	91%	30°	     3030/S5/ 2835/757	

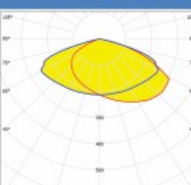
LD5050-10H1-TXX	Material	Efficiency	Type	LED	Candela curves
 49.8x49.8x7.5	PC	94%	60° 90°	     5050	

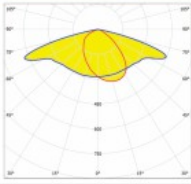
LD5050-16C1-T60	Material	Efficiency	Beam angle	LED	Candela curves
 49.8x49.8x5.6	PC	92%	60°	     3030/S5/ 2835/757	

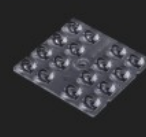
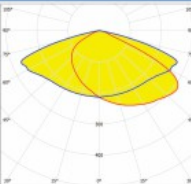
LD5050-16C1-T90	Material	Efficiency	Beam angle	LED	Candela curves
 49.8x49.8x5.6	PC	92%	90°	     3030/S5/ 2835/757	

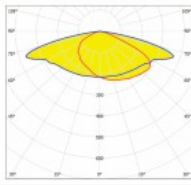
LD5050-16C1-T120	Material	Efficiency	Beam angle	LED	Candela curves
 49.9x49.9x6.9	PC	92%	120°	     3030/S5/ 2835/757	

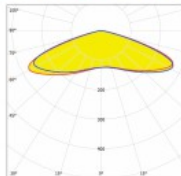
LD5050- 16C1-T2S	Material	Efficiency	Type	LED	Candela curves
 49.8x49.8x4.6	PC	93%	T2S	     3030/S5/ 2835/757	

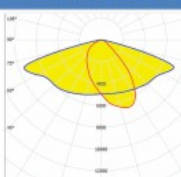
LD5050- 16C1-T3S	Material	Efficiency	Type	LED	Candela curves
 49.8x49.8x4.6	PC	93%	T3S	     3030/S5/ 2835/757	

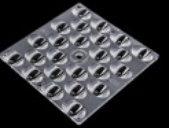
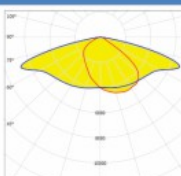
LD5050- 16C1-T2M	Material	Efficiency	Type	LED	Candela curves
 49.8x49.8x4.8	PC	93%	T2M	     3030/S5/ 2835/757	

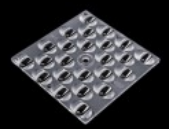
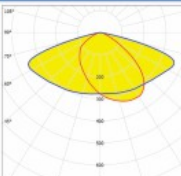
LD5050- 16C1-T3M	Material	Efficiency	Type	LED	Candela curves
 49.8x49.8x5.0	PC	93%	T3M	     3030/S5/ 2835/757	

LD5050- 16C1-T4M	Material	Efficiency	Type	LED	Candela curves
 49.8x49.8x4.4	PC	93%	T4M	     3030/S5/ 2835/757	

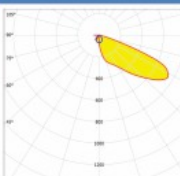
L207-1616-T5	Material	Efficiency	Type	LED	Candela curves
 49.8X49.8X4.5	PC	93%	T5	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 3030/S5/ 2835/757	

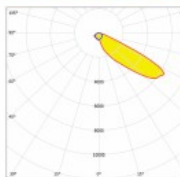
LD5050-2413-T1M	Material	Efficiency	Type	LED	Candela curves
 49.9X49.9X4.0	PC	93%	T1M	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 3030/S5/ 2835/757	

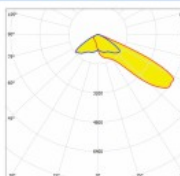
LD5050-24C1-T2M-B	Material	Efficiency	Type	LED	Candela curves
 49.9X49.9X4.4	PC	93%	T2M	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 3030/S5/ 2835/757	

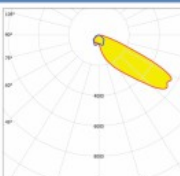
LD5050-24C1-T2M-E	Material	Efficiency	Type	LED	Candela curves
 49.9X49.8X4.4	PC	93%	T2M	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 3030/S5/ 2835/757	

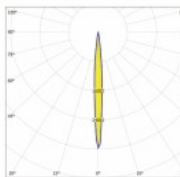
Outdoor and regional road lighting-5050 Stadium Light Series

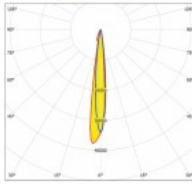
LD5050-0412C-T4-DQ	Material	Efficiency	Type	LED	Candela curves
 49.9x49.9x8.0	PC	93%	T3VS	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	

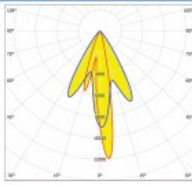
QCD5050-0414-T3VS-A	Material	Efficiency	Type	LED	Candela curves
 49.9x49.9x10.2	PC	93%	T3VS	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	

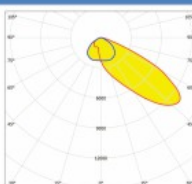
QCD5050-0418-T3VS-B	Material	Efficiency	Type	LED	Candela curves
 49.9x49.9x9.7	PC	93%	T3VS	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	

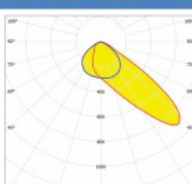
QCD5050-0420-T3VS-C	Material	Efficiency	Type	LED	Candela curves
 49.9x49.9x6.7	PC	93%	T3VS	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	

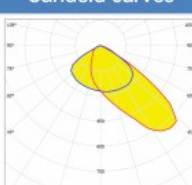
QCD5050-0415-T7	Material	Efficiency	Beam angle	LED	Candela curves
 49.9x49.9x15	PC	91%	7°	MANLUX CREE OSRAM 3535	

QCD5050-0416-T1VS-A	Material	Efficiency	Type	LED	Candela curves
 49.9x49.9x13.5	PC	91%	T1VS	MANLUX CREE OSRAM 3535	

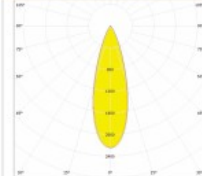
QCD5050-0417-T1VS-B	Material	Efficiency	Type	LED	Candela curves
 49.9x49.9x11.3	PC	91%	T1VS	MANLUX CREE OSRAM 3535	

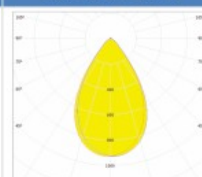
LD5050-0812-T3VS	Material	Efficiency	Type	LED	Candela curves
 49.9x49.9x7.5	PC	93%	T3VS	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	

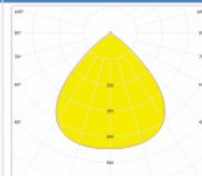
LD5050-16C1-T30X90	Material	Efficiency	Beam angle	LED	Candela curves
 49.8x49.8x5.6	PC	92%	30X90°	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 3030/S5/ 2835/757	

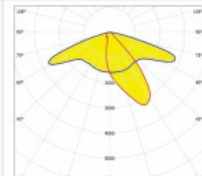
LD5050-16C1-T50X120	Material	Efficiency	Beam angle	LED	Candela curves
 49.8x49.8x5.6	PC	92%	50X120°	MANLUX CREE PHILIPS LUMILEDS NICHIA OSRAM 3030/S5/ 2835/757	

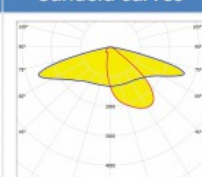
Outdoor and regional road lighting-173 * 70-12H1/24H1 series

LD17371-12H1-T30	Material	Efficiency	Beam angle	LED	Candela curves
 173x71	PC	93%	30°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050/S8	

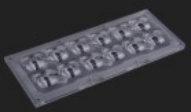
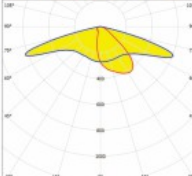
LD17371-12H1-T60	Material	Efficiency	Beam angle	LED	Candela curves
 173x71	PC	93%	60°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050/S8	

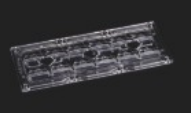
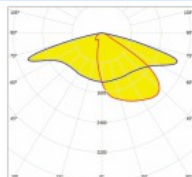
LD17371-12H1-T90	Material	Efficiency	Beam angle	LED	Candela curves
 173x71	PC	94%	90°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050/S8	

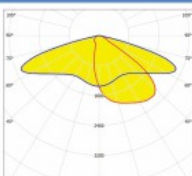
LD17371-12H1-T2S	Material	Efficiency	Type	LED	Candela curves
 173x71	PC	93%	T2S	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050/S8	

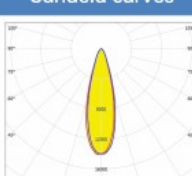
LD17371-12H1-T2M-B	Material	Efficiency	Type	LED	Candela curves
 173x71	PC	93%	T2M	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050/S8	

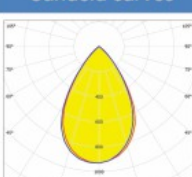
RCOOLA Optics Powered by MANLUX

LD17371-12H1-T2M	Material	Efficiency	Type	LED	Candela curves
	PC	93%	T2M	    5050/S8	
173x71					

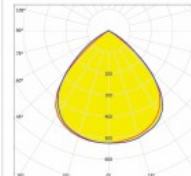
LD17371-12H1-T3M	Material	Efficiency	Type	LED	Candela curves
	PC	93%	T3M	    5050/S8	
173x71					

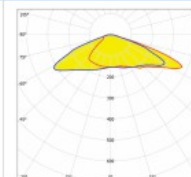
LD17371-12H1-T3M-B	Material	Efficiency	Type	LED	Candela curves
	PC	93%	T3M	    5050/S8	
173x71					

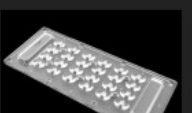
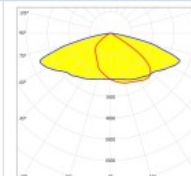
LD17371-24H1-T30-B	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	30°	   3535	
173x71					

LD17371-24H1-T60-B	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	60°	   3535	
173x71					

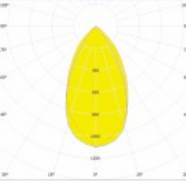
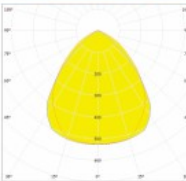
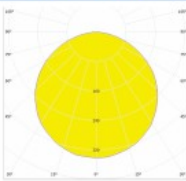
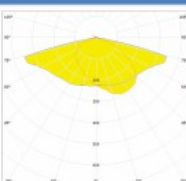
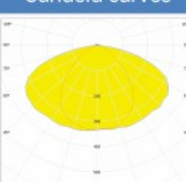
RCOOLA Optics Powered by MANLUX

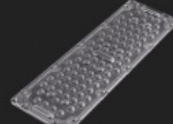
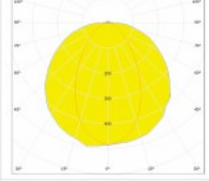
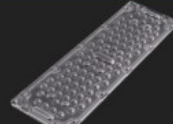
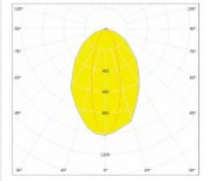
LD17371-24H1-T90-B	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	90°	   3535	
173x71					

LD17371-24H1-T4-B	Material	Efficiency	Type	LED	Candela curves
	PC	93%	T4S	    5050/S8	
173x71					

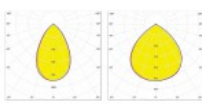
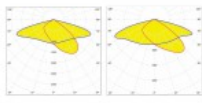
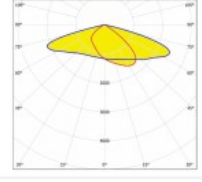
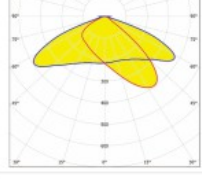
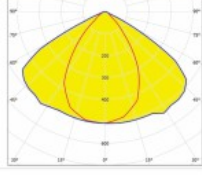
LD17371-24H1-T2M	Material	Efficiency	Type	LED	Candela curves
	PC	94%	T2M	    5050	

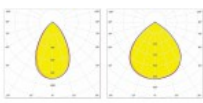
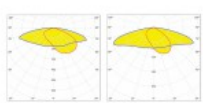
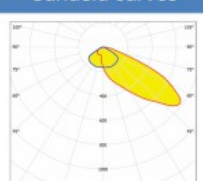
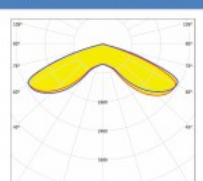
Outdoor and regional road lighting–256 * 78–90H1 series

LD90H1-T60	Material	Efficiency	Beam angle	LED	Candela curves
 256.5×78.5×7.4	PC	93%	60°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
LD90H1-T90	Material	Efficiency	Beam angle	LED	Candela curves
 256.5×78.5×7.4	PC	93%	90°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
LD90H1-T120	Material	Efficiency	Beam angle	LED	Candela curves
 256.5×78.5×6.5	PC	93%	120°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
LD90H1-T2M	Material	Efficiency	Type	LED	Candela curves
 256.5×78.5×6.4	PC	93%	T2M	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
LD90H1-T140×90	Material	Efficiency	Beam angle	LED	Candela curves
 256.5×78.5×6.4	PC	93%	90X140°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	

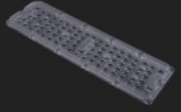
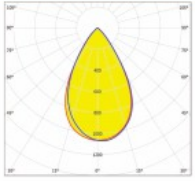
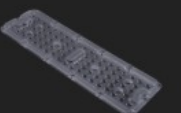
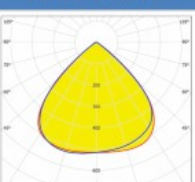
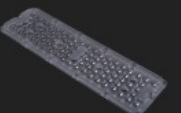
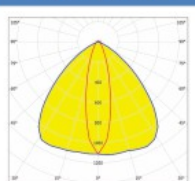
LD90H1-T120×60	Material	Efficiency	Beam angle	LED	Candela curves
 256.5×78.5×6.4	PC	93%	60X120°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
LD90H1-T70×30	Material	Efficiency	Beam angle	LED	Candela curves
 256.5×78.5×7.2	PC	93%	30X70°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	

Outdoor and regional road lighting – 236 * 70 series

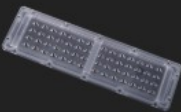
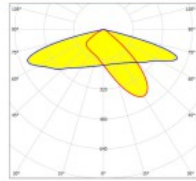
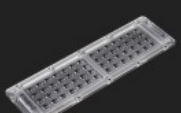
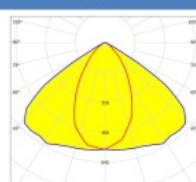
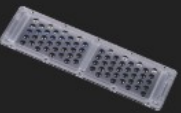
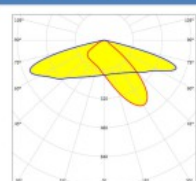
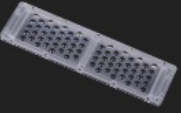
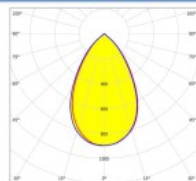
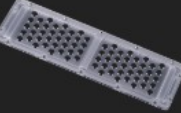
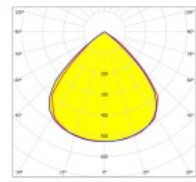
LD23670-64H1-TXX	Material	Efficiency	Beam angle	LED	Candela curves
 236×70×7.0	PC	93%	30° 60° 90°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
LD23670-64H1-TXM	Material	Efficiency	Type	LED	Candela curves
 236×70×7.0	PC	93%	T2M T3M	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
LD23670-64H1-T2S	Material	Efficiency	Type	LED	Candela curves
 236×70×7.0	PC	93%	T2S	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
LD23670-64H1-T2S-A	Material	Efficiency	Type	LED	Candela curves
 236×70×7.0	PC	93%	T2S	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
LD23670-64H1-T70x120	Material	Efficiency	Beam Angle	LED	Candela curves
 236×70×7.0	PC	93%	70×120°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	

LD-23670-28H1-TXX	Material	Efficiency	Beam angle	LED	Candela curves
 236×70×9.5	PC	92%	30° 60° 90°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	
LD-23670-28H1-TXM	Material	Efficiency	Type	LED	Candela curves
 236×70×7.1	PC	93%	T2M T3M	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	
LD23670-28H1-T3VS	Material	Efficiency	Type	LED	Candela curves
 236×70×13.8	PC	93%	T3VS	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	
LD23670-28H1-T5	Material	Efficiency	Type	LED	Candela curves
 236×70×7.1	PC	93%	T5	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	

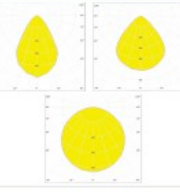
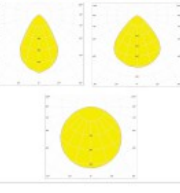
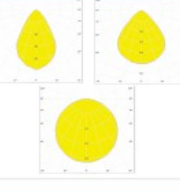
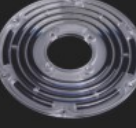
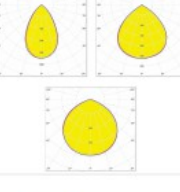
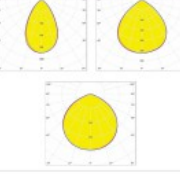
Outdoor and regional road lighting–234* 70–80H1 series

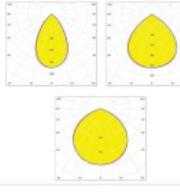
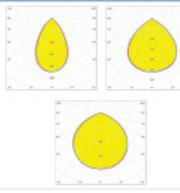
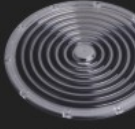
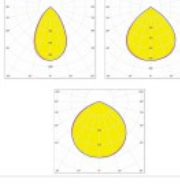
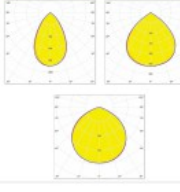
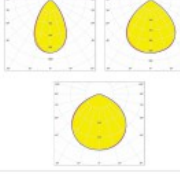
LD23470-80H1-T60	Material	Efficiency	Beam angle	LED	Candela curves
 234×70×6.9	PC	93%	60°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
LD23470-80H1-T90	Material	Efficiency	Beam angle	LED	Candela curves
 234×70×6.9	PC	93%	90°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
LD23470-80H1-T30×90°	Material	Efficiency	Beam angle	LED	Candela curves
 234×70×7.4	PC	93%	30X90°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	

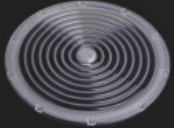
Outdoor and regional road lighting–250*74 series

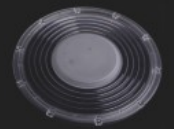
LD25074-56H1-T2M	Material	Efficiency	Type	LED	Candela curves
 250×74×6.5	PC	93%	T2M	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
LD25074-56H1-T60×120	Material	Efficiency	Beam angle	LED	Candela curves
 250×74×6.5	PC	93%	60×120°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
LD25074-72H1-T2M	Material	Efficiency	Type	LED	Candela curves
 250×74×6.5	PC	93%	T2M	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
LD25074-72H1-T60	Material	Efficiency	Beam angle	LED	Candela curves
 250×74×6.5	PC	93%	60°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
LD25074-72H1-T90	Material	Efficiency	Beam angle	LED	Candela curves
 250×74×6.5	PC	93%	90°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	

High Bay Lighting

UFO255-100W-TX	Material	Efficiency	Beam angle	LED	Candela curves
 φ 255,9×8.0	PC	95%	60° 90° 120°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
UFO294-150W-TX	Material	Efficiency	Beam angle	LED	Candela curves
 φ 293,9×8.0	PC	95%	60° 90° 120°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
UFO344-200W-TX	Material	Efficiency	Beam angle	LED	Candela curves
 φ 343,9×8.0	PC	95%	60° 90° 120°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
UFO184-K56	Material	Efficiency	Beam angle	LED	Candela curves
 φ 184×7.7	PC	93%	60° 90° 110°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
UFO184-B26	Material	Efficiency	Beam angle	LED	Candela curves
 φ 184×9.8	PC	93%	60° 90° 120°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	

UFO184-B82	Material	Efficiency	Beam angle	LED	Candela curves
 φ 184×11.8	PC	93%	60°* 90° 120°*	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
UFO226-K56	Material	Efficiency	Beam angle	LED	Candela curves
 φ 226×7.7	PC	93%	60° 90° 110°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
UFO226-B26	Material	Efficiency	Beam angle	LED	Candela curves
 φ 226×9.8	PC	93%	60° 90° 120°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
UFO226-B100	Material	Efficiency	Beam angle	LED	Candela curves
 φ 226×11.8	PC	93%	60°* 90° 120°*	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	
UFO265-K56	Material	Efficiency	Beam angle	LED	Candela curves
 φ 265×7.7	PC	93%	60° 90° 110°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	

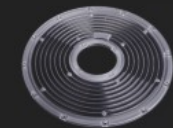
UFO265-B26	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	60° 90° 120°	    3030/2835	  

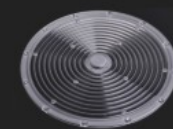
UFO265-B110	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	60°* 90° 120°*	    3030/2835	  

UFO200-K70	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	60° 90° 110°	    3030/2835	  

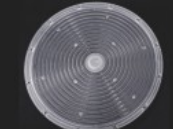
UFO233-K70	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	60° 90° 110°	    3030/2835	  

UFO233-B26	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	60° 90° 120°*	    3030/2835	  

UFO263-K70	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	60° 90° 110°	    3030/2835	  

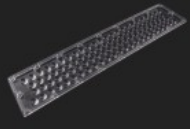
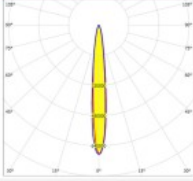
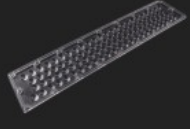
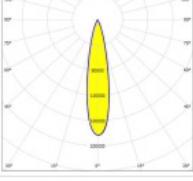
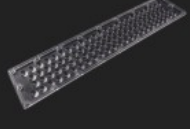
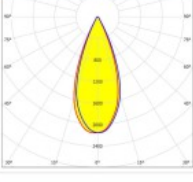
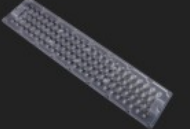
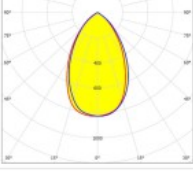
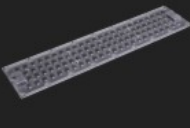
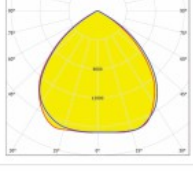
UFO263-B26	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	60° 90° 120°*	    3030/2835	  

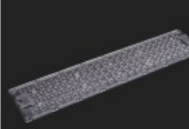
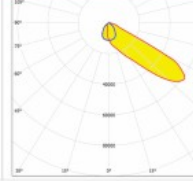
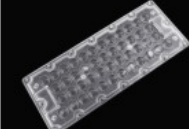
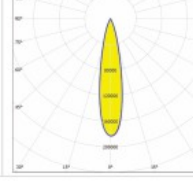
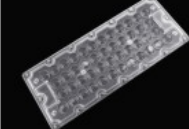
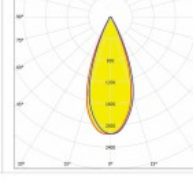
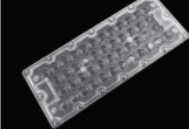
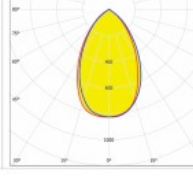
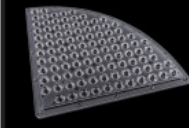
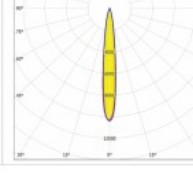
UFO293-K70	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	60° 90° 120°*	    3030/2835	  

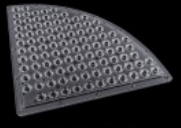
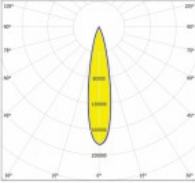
UFO293-B26	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	60° 90° 120°*	    3030/2835	  

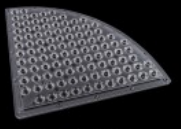
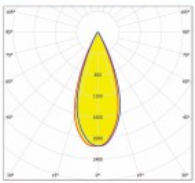
UF0263-150W-T90	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	90°	    3030/2835	

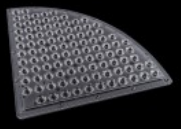
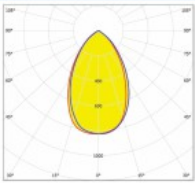
Stadium Lighting

QCD520116-96H1-T15	Material	Efficiency	Beam angle	LED	Candela curves
 520×116×13.8	PC	92%	15°	MANLUX CREE PHILIPS LUMILEDS 3535	
 520×116×13.8	PC	92%	20°	MANLUX CREE PHILIPS LUMILEDS 5050	
 520×116×13.8	PC	92%	40°	MANLUX CREE PHILIPS LUMILEDS 5050	
 520×116×13.8	PC	92%	60°	MANLUX CREE PHILIPS LUMILEDS 5050	
 520×116×13.8	PC	93%	90°	MANLUX CREE PHILIPS LUMILEDS 5050	

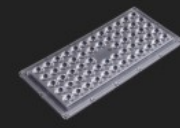
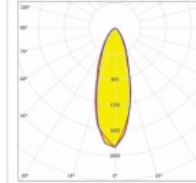
QCD520116-96H1-T3VS	Material	Efficiency	Type	LED	Candela curves
 520×116×13.8	PC	93%	T3VS	MANLUX CREE PHILIPS LUMILEDS 5050	
 286×116×13.8	PC	93%	20°	MANLUX CREE PHILIPS LUMILEDS 5050	
 286×116×13.8	PC	93%	40°	MANLUX CREE PHILIPS LUMILEDS 5050	
 286×116×11.8	PC	93%	60°	MANLUX CREE PHILIPS LUMILEDS 5050	
 220×220×13.5	PC	92%	15°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3535	

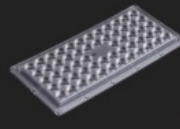
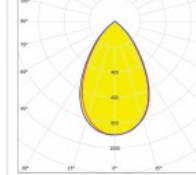
QCD220220-105H1-T20	Material	Efficiency	Beam angle	LED	Candela curves
	PC	92%	20°	MANLUX CREE PHILIPS LUMILEDS 5050	

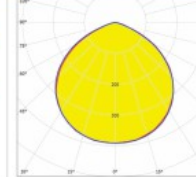
QCD220220-105H1-T40	Material	Efficiency	Beam angle	LED	Candela curves
	PC	92%	40°	MANLUX CREE PHILIPS LUMILEDS 5050	

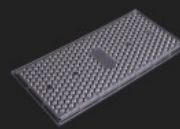
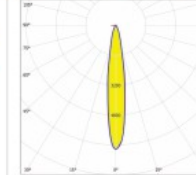
QCD220220-105H1-T60	Material	Efficiency	Beam angle	LED	Candela curves
	PC	92%	60°	MANLUX CREE PHILIPS LUMILEDS 5050	

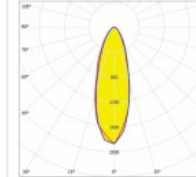
Stadium Lighting–Shoobox Light Series

XHD252119-58H1-T30	Material	Efficiency	Beam angle	LED	Candela curves
	PC	91%	30°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	

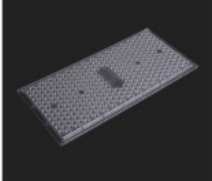
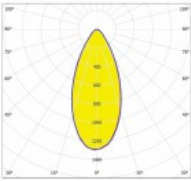
XHD252119-58H1-T60	Material	Efficiency	Beam angle	LED	Candela curves
	PC	91%	60°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	

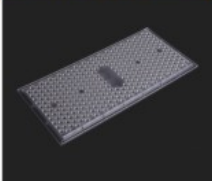
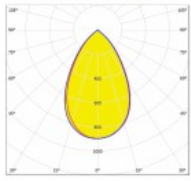
XHD252119-58H1-T120	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	120°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 5050	

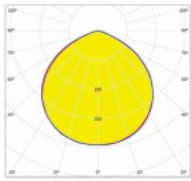
XHD360172-336H1-T15	Material	Efficiency	Beam angle	LED	Candela curves
	PC	91%	15°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	

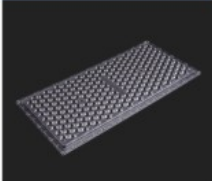
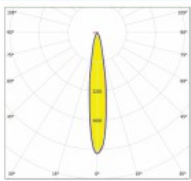
XHD360172-336H1-T30	Material	Efficiency	Beam angle	LED	Candela curves
	PC	91%	30°	MANLUX PHILIPS LUMILEDS NICHIA OSRAM 3030/2835	

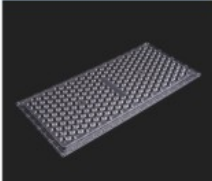
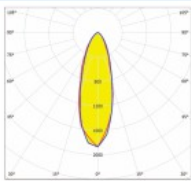
RCOOLA Optics Powered by MANLUX

XHD360172-336H1-T45	Material	Efficiency	Beam angle	LED	Candela curves
	PC	91%	45°	    3030/2835	

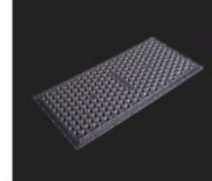
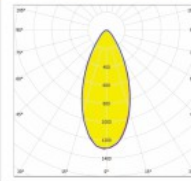
XHD360172-336H1-T60	Material	Efficiency	Beam angle	LED	Candela curves
	PC	91%	60°	    3030/2835	

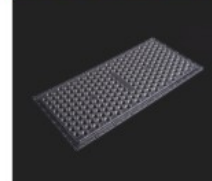
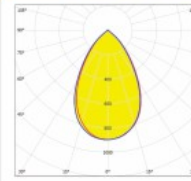
XHD360172-336H1-T120	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	120°	    3030/2835	

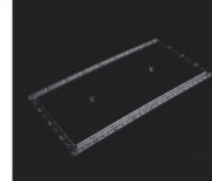
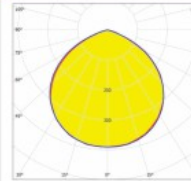
XHD481231-230H1-T15	Material	Efficiency	Beam angle	LED	Candela curves
	PC	91%	15°	    3535	

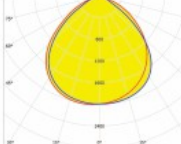
XHD481231-230H1-T30	Material	Efficiency	Beam angle	LED	Candela curves
	PC	91%	30°	    5050	

RCOOLA Optics Powered by MANLUX

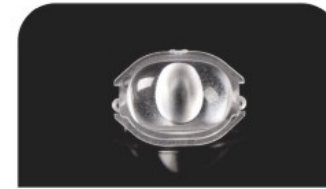
XHD481231-230H1-T40	Material	Efficiency	Beam angle	LED	Candela curves
	PC	91%	40°	    5050	

XHD481231-230H1-T60	Material	Efficiency	Beam angle	LED	Candela curves
	PC	91%	60°	    5050	

XHD481231-230H1-T120	Material	Efficiency	Beam angle	LED	Candela curves
	PC	93%	120°	    5050	

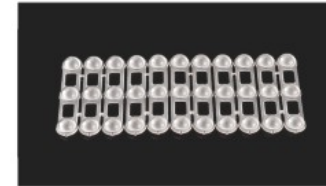
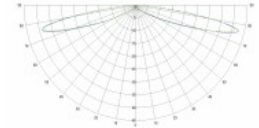
Silicone Lens-φ85-T90	Material	Efficiency	Beam angle	LED	Candela curves
 φ85×17.2mm	silica gel	95%	90°	    COB	

Silicone Lens-φ85-T110×160	Material	Efficiency	Beam angle	LED	Candela curves
 φ85×22.2mm	silica gel	95%	110×160°	    COB	



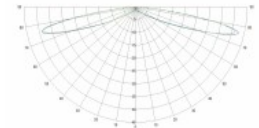
Peanut lens A

Dimensions: 13.2×8.7×4.4mm
 Material: PC
 Beam Angle: 170°
 Transmittance: 88%
 LED: 2835/3030



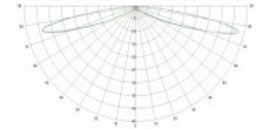
DX2835-3RG-11L

Dimensions: 107.5×47.7×4.1mm
 Material: PC
 Beam Angle: 170°
 Transmittance: 88%
 LED: 2835/3030



DX2835-3RH-20L

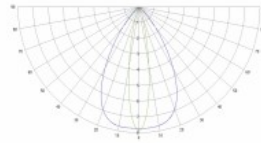
Dimensions: 237.6×53.7×4.4mm
 Material: PC
 Beam Angle: 170°
 Transmittance: 88%
 LED: 2835/3030





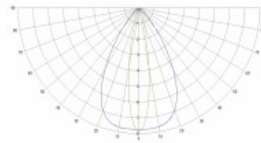
TW2835-S1

Dimensions: $\phi 22.5 \times 10.3\text{mm}$
Material: PMMA
Beam Angle: $20^\circ \times 60^\circ$
Transmittance: 88%
LED: 2835/3030



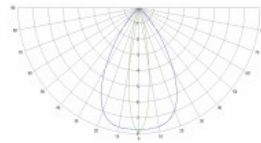
TW3535-B1

Dimensions: $\phi 29.5 \times 12.3\text{mm}$
Material: PMMA
Beam Angle: $20^\circ \times 60^\circ$
Transmittance: 88%
LED: 2835/3030



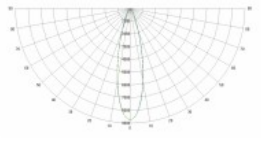
TW2835-N3

Dimensions: $\phi 25.9 \times 12.2\text{mm}$
Material: PMMA
Beam Angle: $20^\circ \times 60^\circ$
Transmittance: 88%
LED: 2835/3030



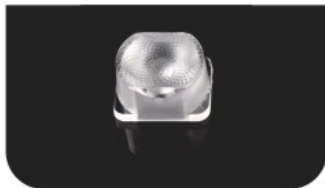
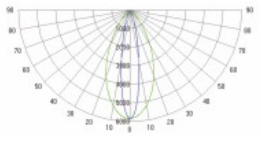
DB-1011-T30

Dimensions: $10 \times 11 \times 6.5\text{mm}$
Material: PC/PMMA
Beam Angle: 30°
Transmittance: 88%
LED: 2835/3030



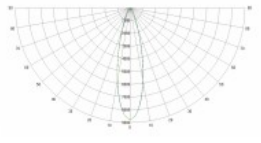
DB-1011-T25x40

Dimensions: $10 \times 11 \times 6.5\text{mm}$
Material: PC/PMMA
Beam Angle: $25^\circ \times 40^\circ$
Transmittance: 88%
LED: 2835/3030



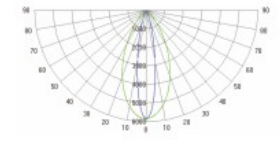
DB-1215-T25

Dimensions: $12 \times 15 \times 6.5\text{mm}$
Material: PC/PMMA
Beam Angle: 25°
Transmittance: 88%
LED: 2835/3030



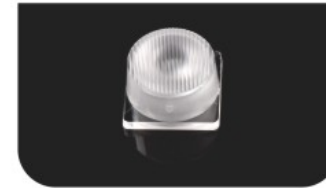
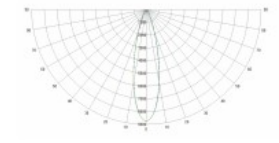
DB-1215-T25x40

Dimensions: $12 \times 15 \times 6.5\text{mm}$
Material: PC/PMMA
Beam Angle: $25^\circ \times 40^\circ$
Transmittance: 88%
LED: 2835/3030



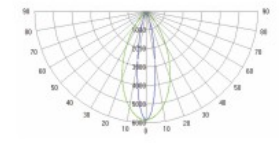
DB-1515-T25

Dimensions: $15 \times 15 \times 6.5\text{mm}$
Material: PC/PMMA
Beam Angle: 25°
Transmittance: 88%
LED: 2835/3030



DB-1515-T25x40

Dimensions: $15 \times 15 \times 6.5\text{mm}$
Material: PC/PMMA
Beam Angle: $25^\circ \times 40^\circ$
Transmittance: 88%
LED: 2835/3030



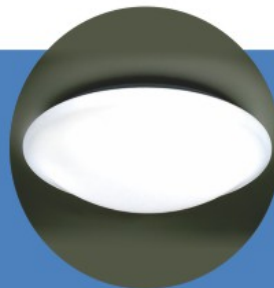


Refractive



Reflective

They're widely used in TV backlights, panel lights, ceiling lamps, etc.



13TV-A01

Dimensions: $\Phi 13.5 \times 4.3 \times 1.8 \text{mm}$

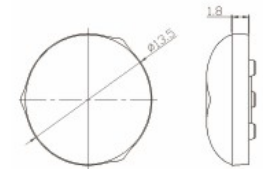
Material: PMMA

Beam Angle: 160°

ODvalue: 30mm

Transmittance: 93%

Adapt the light source LED: 3030/2835



13TV-A02

Dimensions: $\Phi 13.5 \times 4.3 \times 1.8 \text{mm}$

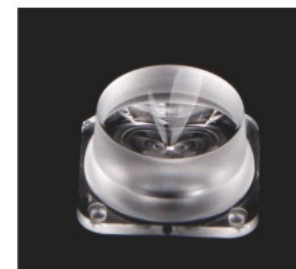
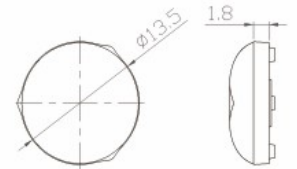
Material: PMMA

angle: 160°

ODvalue: 30mm

Light transmittance Transmittance:

Adapt the light source LED: 3030/2835



OD20-ABW01-A1

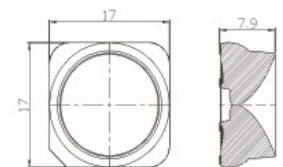
Dimensions: $17 \times 17 \times 7.9 \text{mm}$

Material: PMMA

ODvalue: 20mm

Transmittance: 93%

LED: 3030



OD20-AMW01-A1

Dimensions: $15 \times 15 \times 7.0 \text{mm}$

Material: PMMA

ODvalue: 20mm

Transmittance: 93%

LED: 3030

