

Report No. : 215

Test Time : 2025-02-16 11:32:09

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SELECTA Goniophotometer Test Report

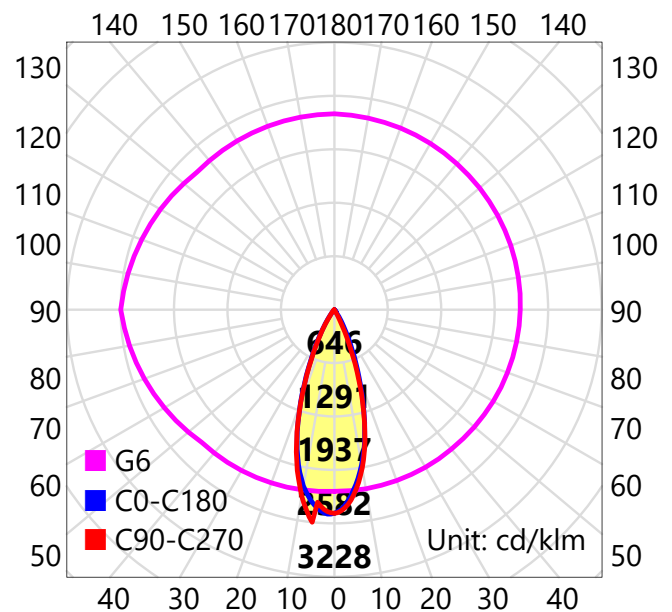
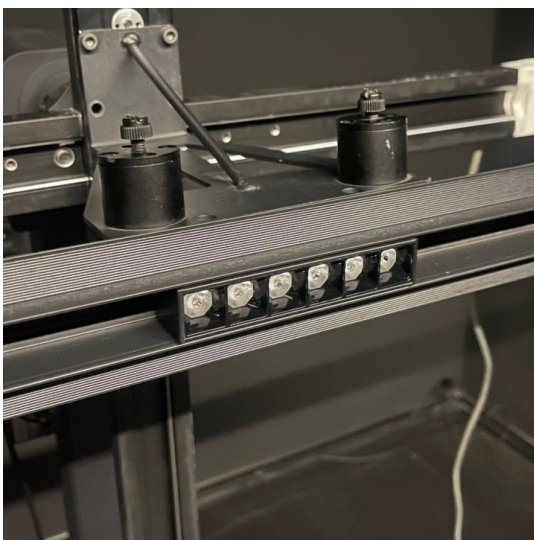
Product Info

Luminaire Category : **MagLight**Luminaire : **LINE UGR 111мм 2700K 48v**Lamp Category : **MagLight**Lamp : **LINE UGR 111мм 2700K 48v**Manufacturer : **Selecta**Submitter : **Gubarev S. S.**Nuber of Lamps : **1**Lumens per Lamp : **0 lm**Luminous Length : **111 mm**Luminous Width : **22 mm**Luminous Height : **43 mm**

Electric Parameters

Voltage : **220.00 V** Current : **0.0780 A** Power : **6.88 W** Power Factor : **0.398** Frequency : **49.96 Hz**

Photometric Parameters

CIE Class : **Direct**Measurement Flux : **425.0 lm**Upward Ratio : **0.00 %**Maximum Intensity : **2582.06 cd/klm**Central Intensity : **2458.38 cd/klm**Luminaire Efficacy Rating (LER) : **62**Beam Angle (C0-C180,C90-C270) : **36.3 °, 35.1 °**Field Angle (C0-C180,C90-C270) : **60.5 °, 56.6 °**Total Rated Lamp Lumens : **425.0 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C270° γ6°**S/MH(C0-C180,C90-C270) : **0.60, 0.60**Energy Efficiency Class : **G (EU 2019/2015 η_{TM}:71lm/W)**Beam Angle (C45-C225,C135-C315) : **35.8 °, 35.8 °**Field Angle (C45-C225,C135-C315) : **63.6 °, 63.5 °**

Average Beam Angle (50%): 35.7°

Test Type : Type C

Test Distance : 7.922 m

C Plane (°): 0.0-360.0:45.0 γ (°): 0.0-90.0:1.0

Test Device : Lisun LSG-1800A

Temperature : 21.0°C Humidity : 22.0%

Test Lab :

Test By : Gubarev S. S.

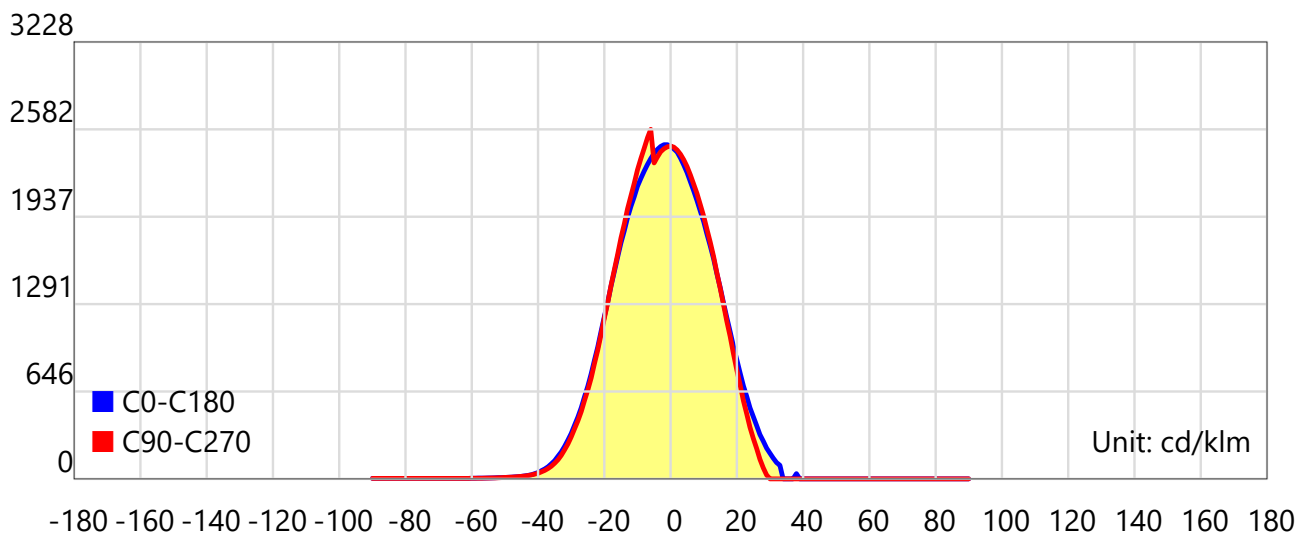
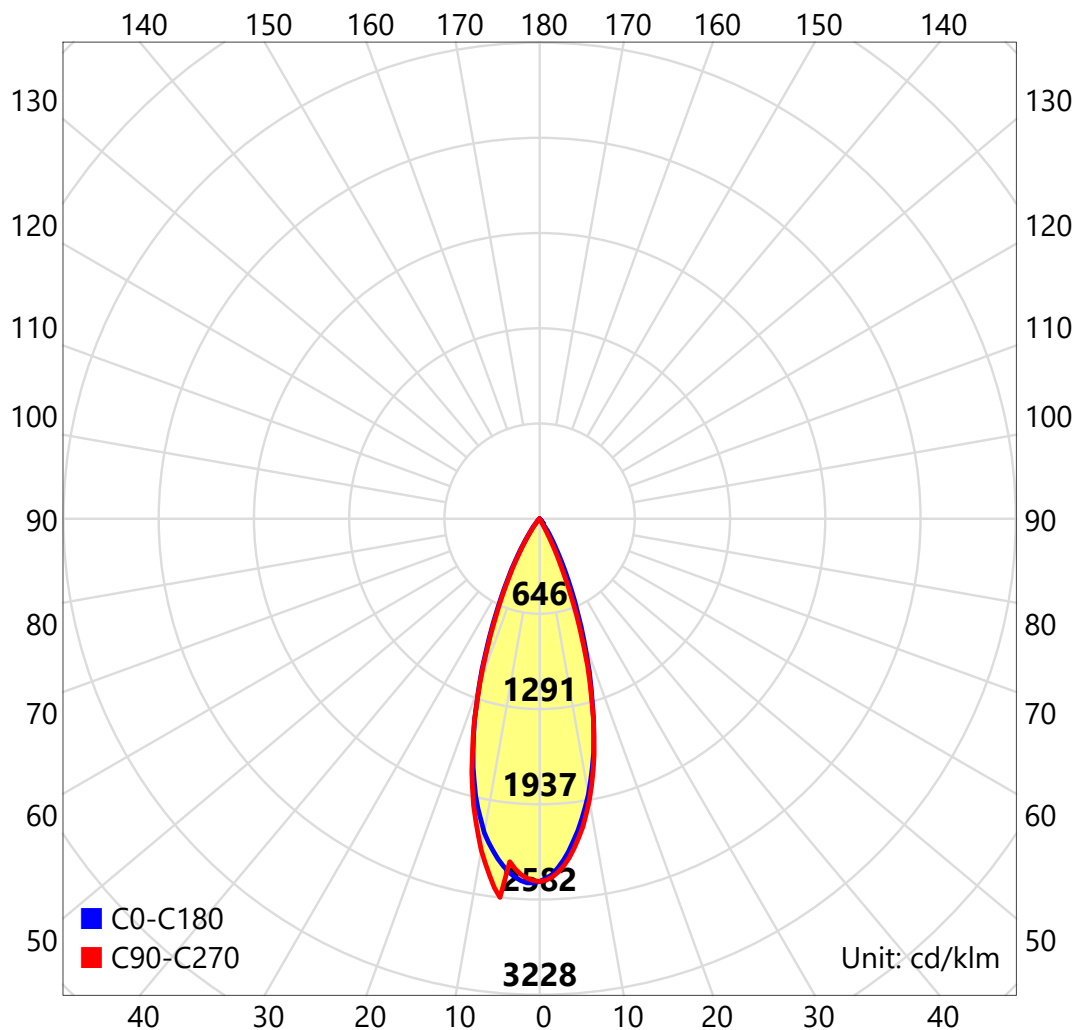
Review By :

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Light Distribution Curve



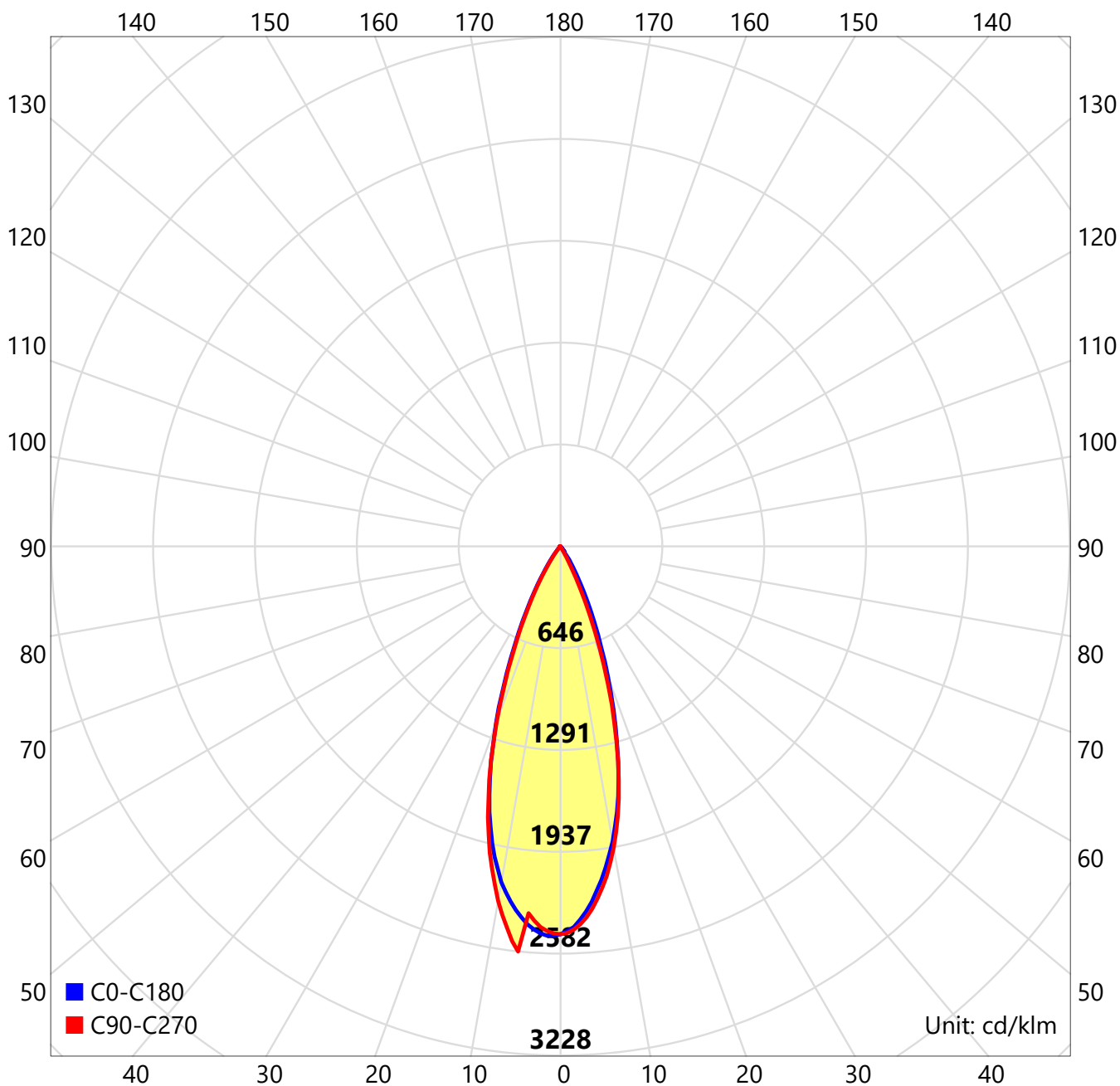
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



LINE UGR 111мм 2700K 48v/MagLight

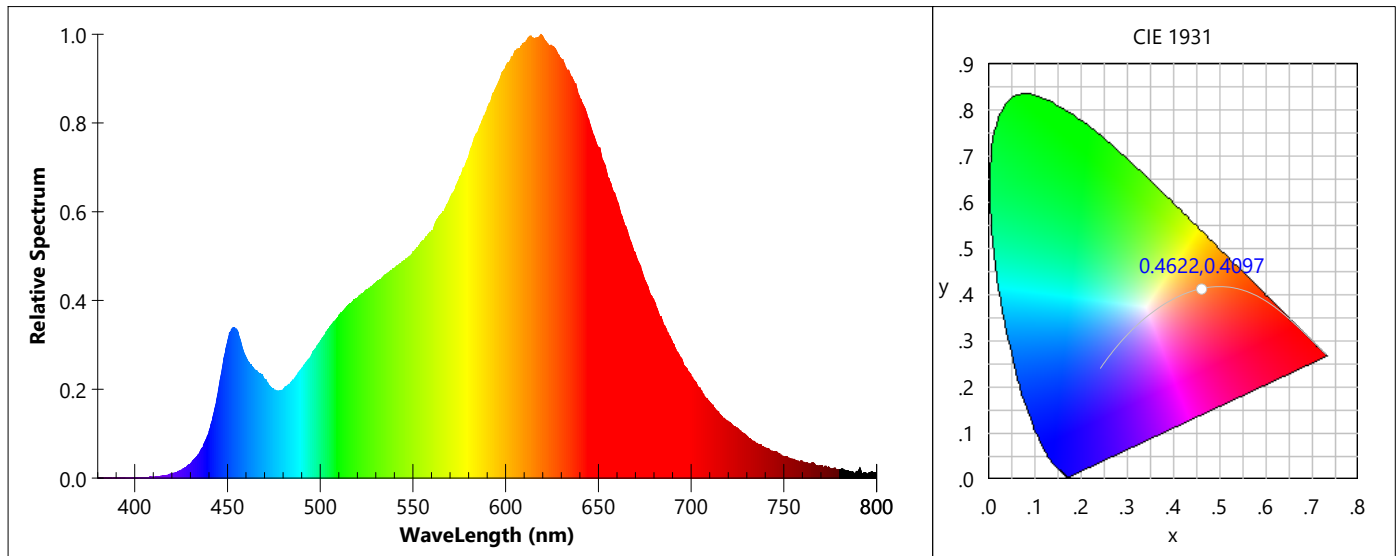
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Color Properties



Colorimetric

CIE(x,y): 0.4622,0.4097

CIE(u,v): 0.2645,0.3516

CIE(u',v'): 0.2645,0.5274

CCT: 2660 K (Duv=-0.000531)

Dominant Wavelength: 584.6 nm

Color Purity: 0.617

Peak Wavelength: 619.0 nm

Half Width: 122.4 nm

Color Ratio: R:0.268, G:0.706, B:0.026

Color Render Index: Ra: 90.6

R1: 92	R2: 98	R3: 95	R4: 91	R5: 93	R6: 96	R7: 87	R8: 73
R9: 43	R10: 96	R11: 98	R12: 87	R13: 94	R14: 98	R15: 85	

Color Quality Scale: Qa: 89.4, Qf: 89.6, Qp: 91.5, Qg: 93.1

Q1: 84	Q2: 93	Q3: 92	Q4: 90	Q5: 91	Q6: 93	Q7: 92	Q8: 92
Q9: 94	Q10: 95	Q11: 94	Q12: 92	Q13: 90	Q14: 82	Q15: 83	

TM-30-18: Rf: 90, Rg: 97

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 6.662 umol/s
 Photosynthetic Active Radiant Flux (Фe): 1.354 W
 Photons Flux (400~500nm): 0.579 umol/s
 Photons Flux (600~700nm): 3.599 umol/s
 Photons Flux (PFuv 280~400nm): 0.000 umol/s
 Radiant Flux (400~500nm): 0.148 W
 Radiant Flux (600~700nm): 0.673 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 6.077 umol/s
 YPF (500~600nm): 2.206 umol/s
 YPF (700~800nm): 0.086 umol/s
 Radiant Flux (Chl-A): 0.116 W

Photosynthetic Photon Efficacy (Kp): 0.968 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.197
 Photons Flux (500~600nm): 2.485 umol/s
 Photons Flux (PFfr 700~800nm): 0.414 umol/s
 Photons Flux (PF_PBAR): 7.077 umol/s
 Radiant Flux (500~600nm): 0.533 W
 Radiant Flux (700~800nm): 0.068 W
 R/B: 4.6 R/FR: 9.9
 YPF (400~500nm): 0.414 umol/s
 YPF (600~700nm): 3.371 umol/s
 YPF (320~400nm): 0.000 umol/s
 Radiant Flux (Chl-B): 0.136 W

Test Type : Type C

Test Distance : 7.922 m

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Temperature : 21.0°C Humidity : 22.0%

Test Lab :

Test By : Gubarev S. S.

Review By :