

Report No. : 189

Test Time : 2025-01-29 16:13:45

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SELECTA Goniophotometer Test Report

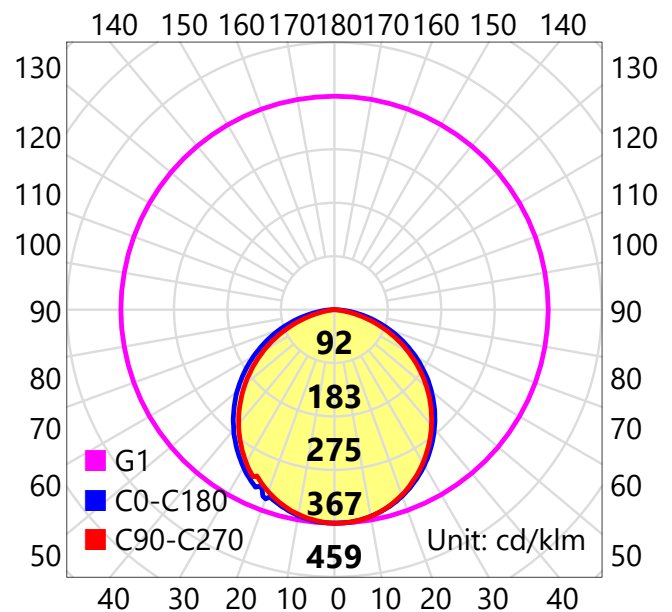
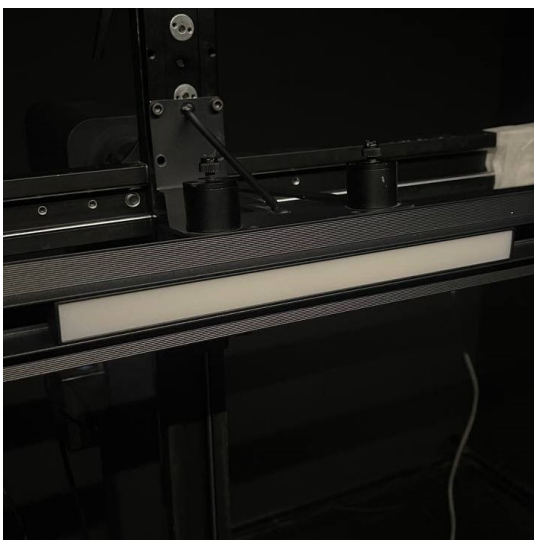
Product Info

Luminaire Category : **MagLight**Luminaire : **LINE 300мм 4000K 48v**Lamp Category : **MagLight**Lamp : **LINE 300мм 4000K 48v**Manufacturer : **Selecta**Submitter : **Gubarev S. S.**Nuber of Lamps : **1**Lumens per Lamp : **0 lm**Luminous Length : **300 mm**Luminous Width : **22 mm**Luminous Height : **43 mm**

Electric Parameters

Voltage : **219.90 V** Current : **0.1260 A** Power : **11.88 W** Power Factor : **0.428** Frequency : **49.95 Hz**

Photometric Parameters

CIE Class : **Direct**Measurement Flux : **684.5 lm**Upward Ratio : **0.00 %**Maximum Intensity : **366.83 cd/klm**Central Intensity : **366.53 cd/klm**Luminaire Efficacy Rating (LER) : **58**Beam Angle (C0-C180,C90-C270) : **112.1 °, 106.9 °**Field Angle (C0-C180,C90-C270) : **161.9 °, 154.4 °**Total Rated Lamp Lumens : **684.5 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C90° γ1°**S/MH(C0-C180,C90-C270) : **1.26, 1.23**Energy Efficiency Class : **G (EU 2019/2015 η_{TM}:55lm/W)**Beam Angle (C45-C225,C135-C315) : **109.2 °, 109.2 °**Field Angle (C45-C225,C135-C315) : **158.2 °, 158.4 °**

Average Beam Angle (50%): 109.3°

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.

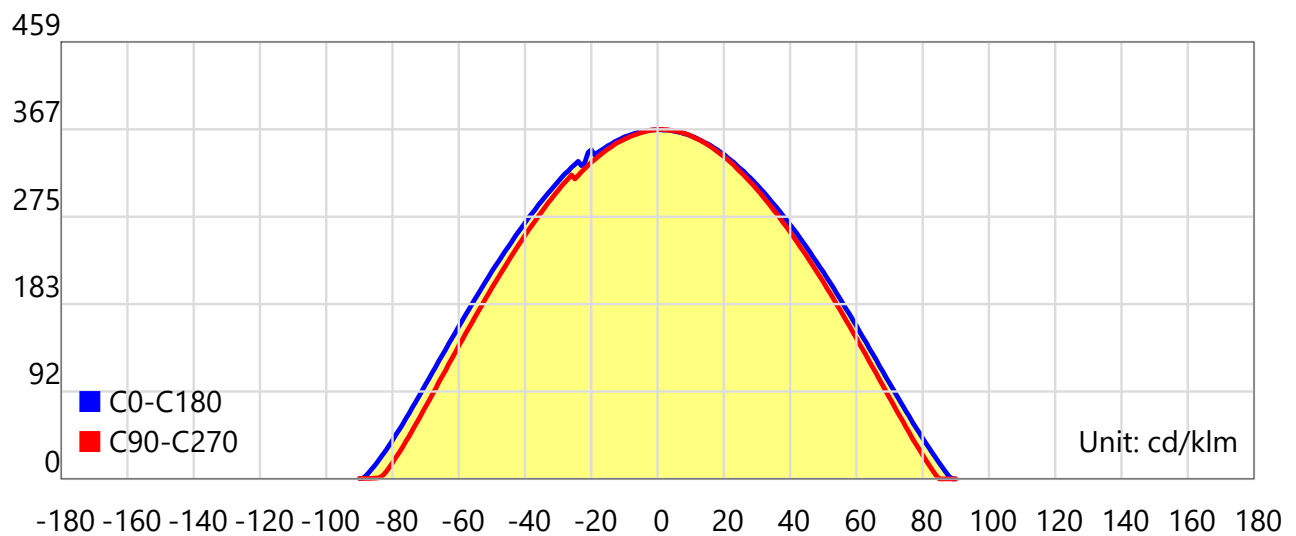
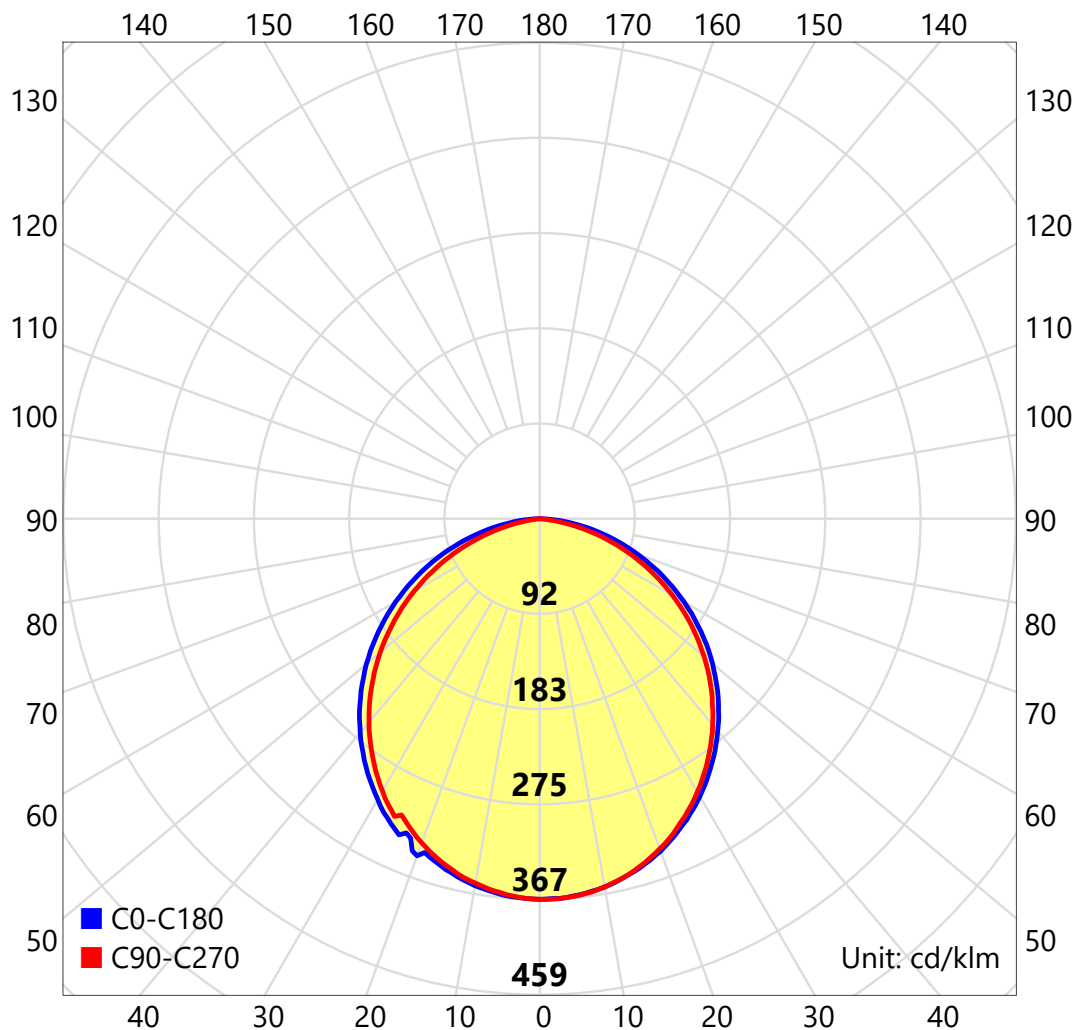
Review By :

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Light Distribution Curve



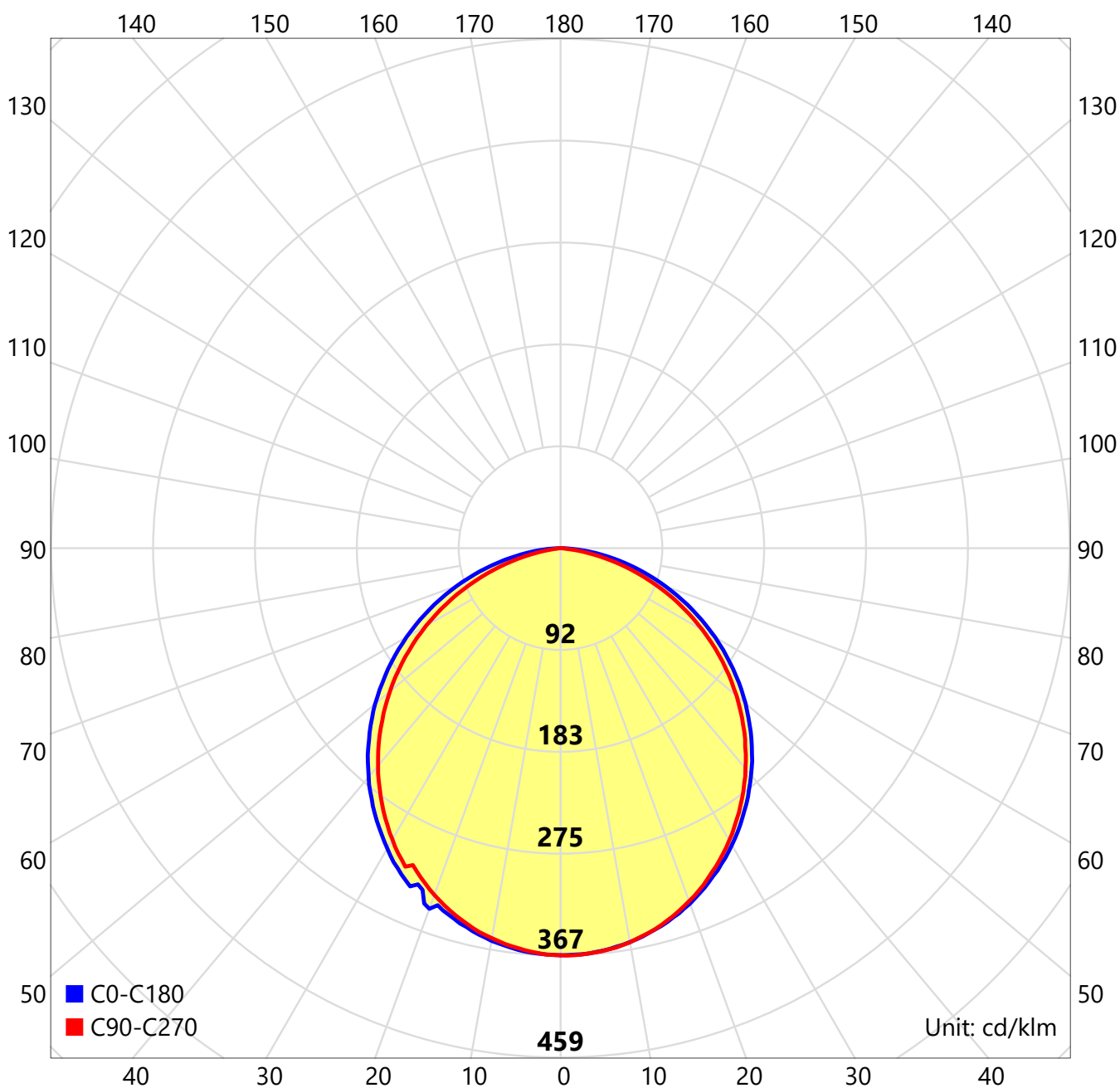
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



LINE 300mm 4000K 48v/MagLight

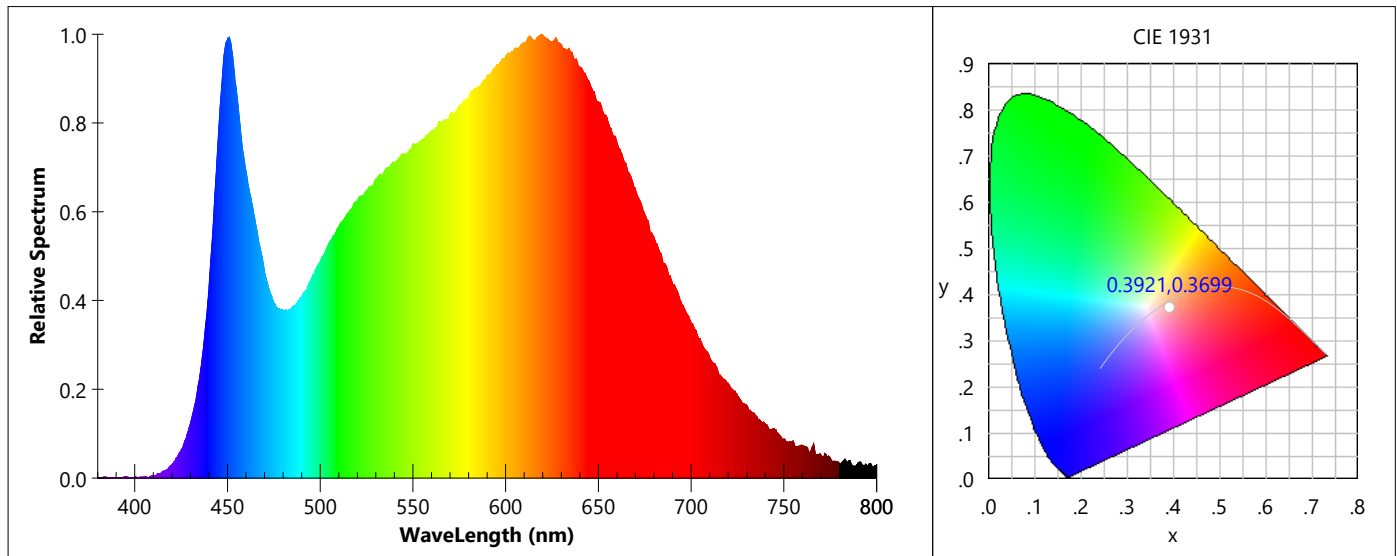
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Color Properties



Colorimetric

CIE(x,y): 0.3921,0.3699

CIE(u,v): 0.2357,0.3335

CIE(u',v'): 0.2357,0.5003

CCT: 3636 K (Duv=-0.006394)

Dominant Wavelength: 584.0 nm

Color Purity: 0.287

Peak Wavelength: 619.1 nm

Half Width: 182.9 nm

Color Ratio: R:0.218, G:0.742, B:0.041

Color Render Index: Ra: 95.2

R1: 97	R2: 98	R3: 97	R4: 95	R5: 97	R6: 95	R7: 94	R8: 90
R9: 78	R10: 95	R11: 98	R12: 80	R13: 98	R14: 98	R15: 97	

Color Quality Scale: Qa: 92.1 , Qf: 90.7 , Qp: 95.2 , Qg: 101.7

Q1: 95	Q2: 99	Q3: 86	Q4: 86	Q5: 92	Q6: 95	Q7: 92	Q8: 94
Q9: 98	Q10: 94	Q11: 92	Q12: 92	Q13: 93	Q14: 93	Q15: 93	

TM-30-18: Rf: 92 , Rg: 101

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 11.076 umol/s
 Photosynthetic Active Radiant Flux (Фe): 2.314 W
 Photons Flux (400~500nm): 1.764 umol/s
 Photons Flux (600~700nm): 5.137 umol/s
 Photons Flux (PFuv 280~400nm): 0.001 umol/s
 Radiant Flux (400~500nm): 0.456 W
 Radiant Flux (600~700nm): 0.956 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 9.856 umol/s
 YPF (500~600nm): 3.654 umol/s
 YPF (700~800nm): 0.178 umol/s
 Radiant Flux (Chl-A): 0.193 W

Photosynthetic Photon Efficacy (Kp): 0.932 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.195
 Photons Flux (500~600nm): 4.176 umol/s
 Photons Flux (PFfr 700~800nm): 0.902 umol/s
 Photons Flux (PF_PBAR): 11.979 umol/s
 Radiant Flux (500~600nm): 0.901 W
 Radiant Flux (700~800nm): 0.148 W
 R/B: 2.1 R/FR: 6.5
 YPF (400~500nm): 1.274 umol/s
 YPF (600~700nm): 4.749 umol/s
 YPF (320~400nm): 0.001 umol/s
 Radiant Flux (Chl-B): 0.308 W

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 :