

Report No. : 189

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SELECTA Goniophotometer Test Report

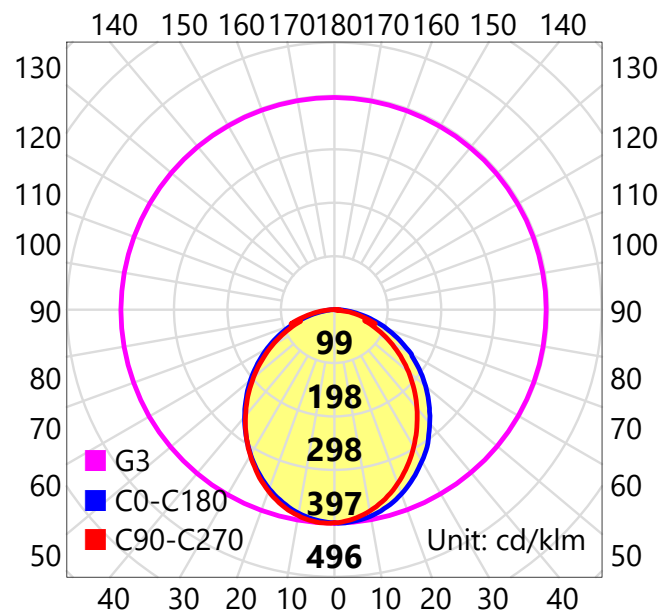
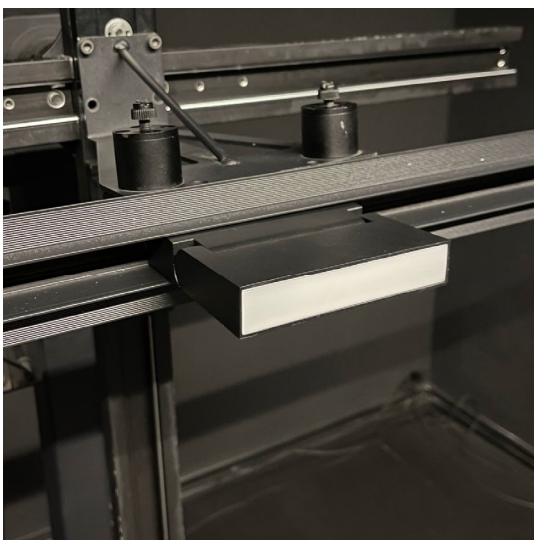
Product Info

Luminaire Category : **MagLight**Luminaire : **SPIN LINE 111мм 6W 5700K 48v**Lamp Category : **MagLight**Lamp : **SPIN LINE 111мм 6W 5700K 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 : **115 mm**

Electric Parameters

Voltage : **219.90 V** Current : **0.0770 A** Power : **6.74 W** Power Factor : **0.398** Frequency : **49.96 Hz**

Photometric Parameters

CIE Class : **Direct**Measurement Flux : **217.2 lm**Upward Ratio : **0.00 %**Maximum Intensity : **396.93 cd/klm**Central Intensity : **395.69 cd/klm**Luminaire Efficacy Rating (LER) : **32**Beam Angle (C0-C180,C90-C270) : **104.8 °, 96.5 °**Field Angle (C0-C180,C90-C270) : **159.3 °, 158.8 °**Total Rated Lamp Lumens : **217.2 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C300° γ3°**S/MH(C0-C180,C90-C270) : **1.20, 1.15**Energy Efficiency Class : **G (EU 2019/2015 η_{TM}:31lm/W)**Beam Angle (C45-C225,C135-C315) : **102.6 °, 102.4 °**Field Angle (C45-C225,C135-C315) : **156.6 °, 156.5 °**

Average Beam Angle (50%): 101.9°

Test Type : Type C

Test Distance : 7.922 m

C Plane (°): 0.0-360.0:30.0 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.

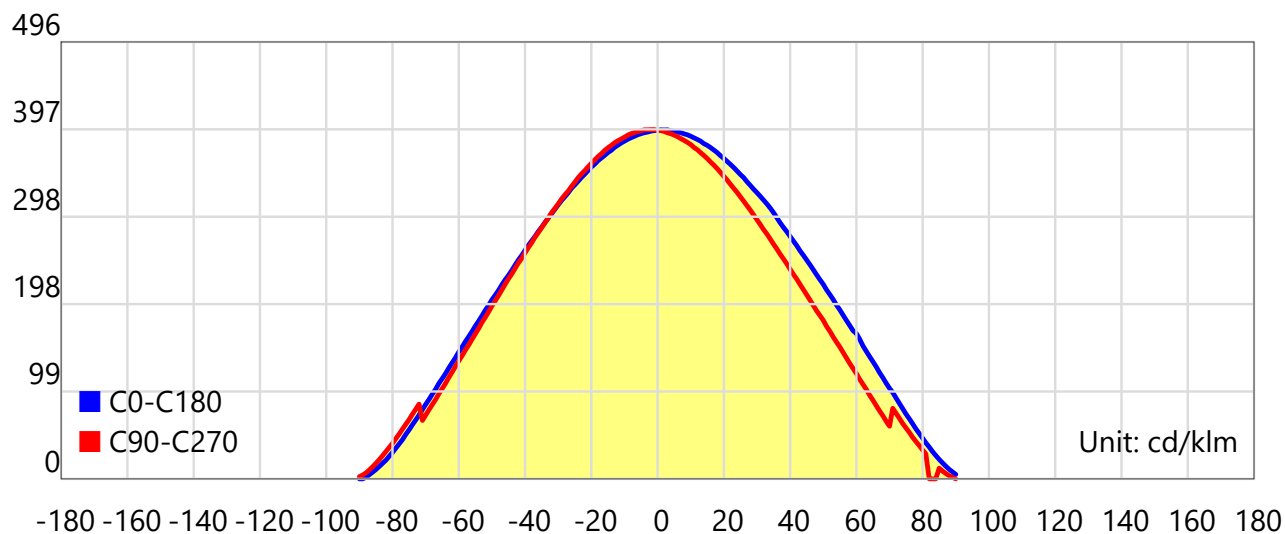
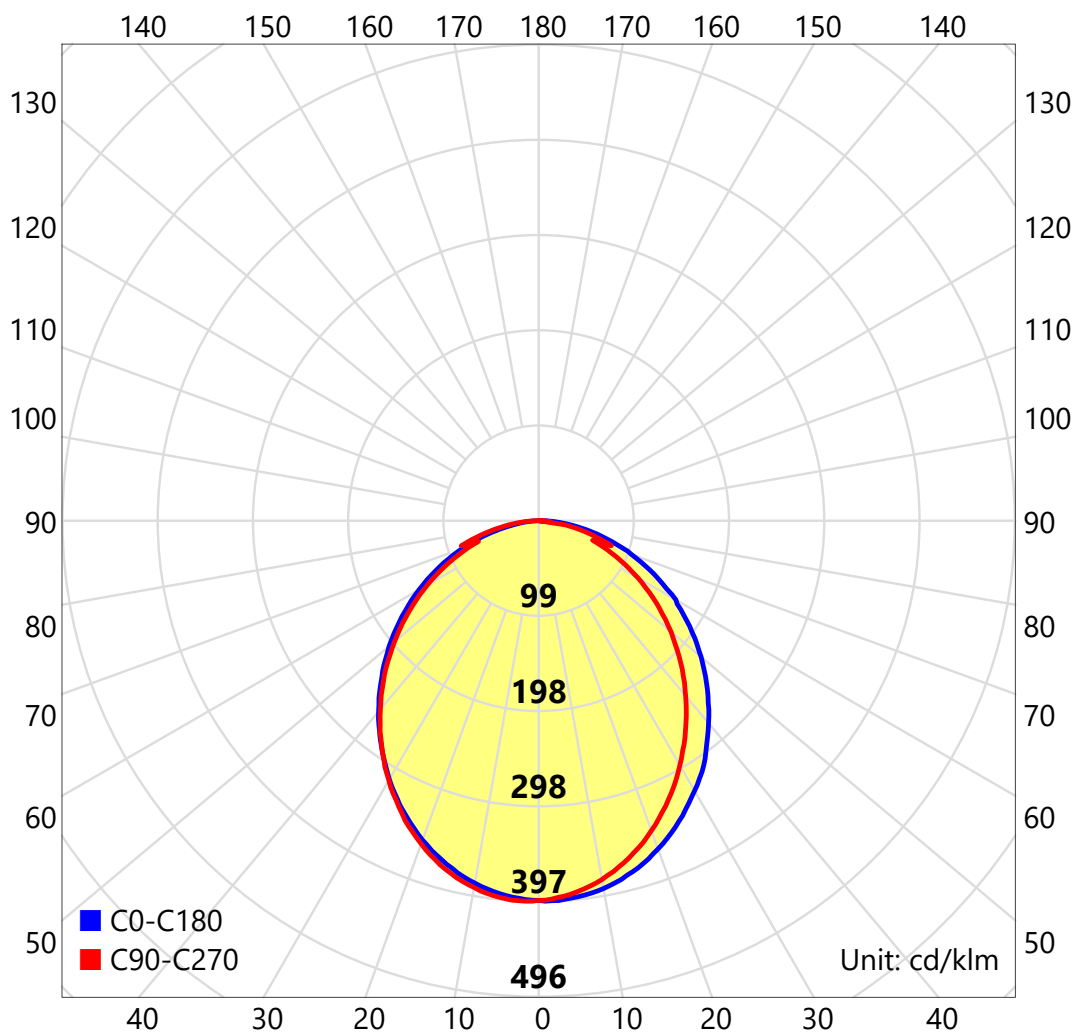
Review By :

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Light Distribution Curve



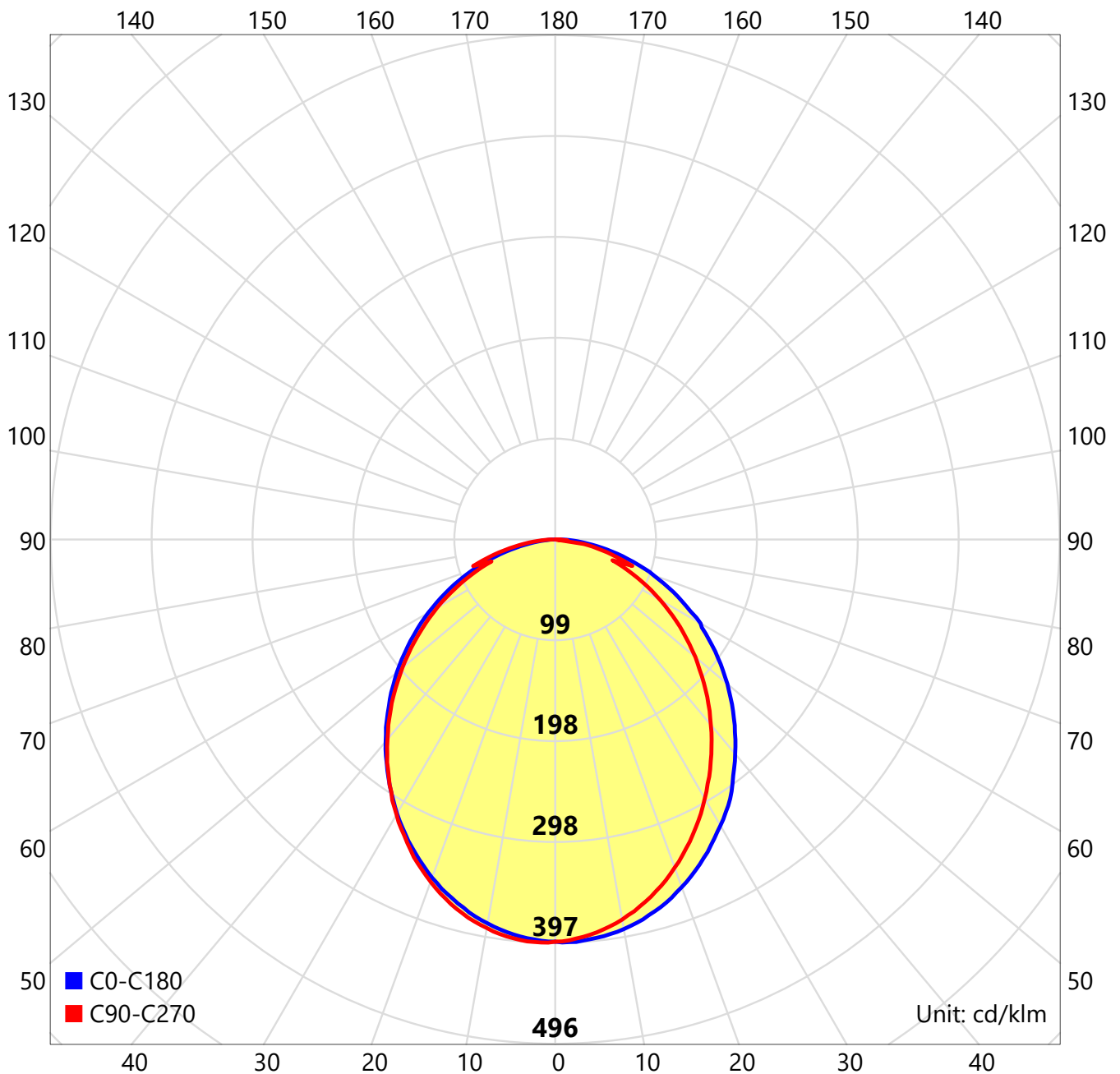
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:30.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



SPIN LINE 111mm 6W 5700K 48v/MagLight

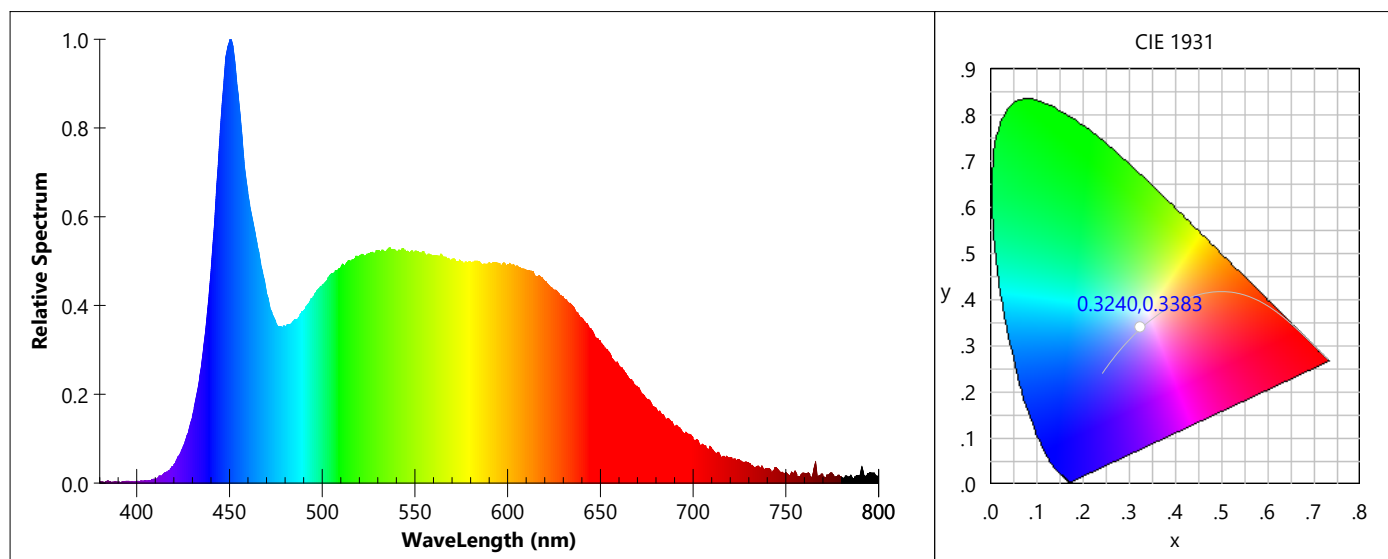
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Color Properties



Colorimetric

CIE(x,y): 0.3240,0.3383

CIE(u,v): 0.2021,0.3166

CIE(u',v'): 0.2021,0.4749

CCT: 5890 K (Duv=0.002456)

Dominant Wavelength: 498.7 nm

Color Purity: 0.029

Peak Wavelength: 450.6 nm

Half Width: 26.2 nm

Color Ratio: R:0.156, G:0.784, B:0.061

Color Render Index: Ra: 92.3

R1: 93	R2: 95	R3: 96	R4: 93	R5: 92	R6: 91	R7: 94	R8: 85
R9: 57	R10: 87	R11: 95	R12: 72	R13: 94	R14: 98	R15: 90	

Color Quality Scale: Qa: 90.7 , Qf: 90.4 , Qp: 91.2 , Qg: 97.0

Q1: 91	Q2: 99	Q3: 86	Q4: 84	Q5: 89	Q6: 92	Q7: 94	Q8: 95
Q9: 98	Q10: 93	Q11: 92	Q12: 92	Q13: 92	Q14: 87	Q15: 88	

TM-30-18: Rf: 90 , Rg: 98

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 3.290 umol/s
 Photosynthetic Active Radiant Flux (Фe): 0.722 W
 Photons Flux (400~500nm): 0.865 umol/s
 Photons Flux (600~700nm): 1.018 umol/s
 Photons Flux (PFuv 280~400nm): 0.001 umol/s
 Radiant Flux (400~500nm): 0.224 W
 Radiant Flux (600~700nm): 0.191 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 2.816 umol/s
 YPF (500~600nm): 1.209 umol/s
 YPF (700~800nm): 0.024 umol/s
 Radiant Flux (Chl-A): 0.051 W

Photosynthetic Photon Efficacy (Kp): 0.488 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.107
 Photons Flux (500~600nm): 1.407 umol/s
 Photons Flux (PFfr 700~800nm): 0.132 umol/s
 Photons Flux (PF_PBAR): 3.423 umol/s
 Radiant Flux (500~600nm): 0.306 W
 Radiant Flux (700~800nm): 0.022 W
 R/B: 0.9 R/FR: 8.9
 YPF (400~500nm): 0.626 umol/s
 YPF (600~700nm): 0.956 umol/s
 YPF (320~400nm): 0.001 umol/s
 Radiant Flux (Chl-B): 0.122 W

Test Type : Type C

Test Distance : 7.922 m

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Test Device : Lisun LSG-1800A

Temperature : 21.0°C Humidity : 22.0%

Test Lab :

Test By : Gubarev S. S.

Review By :