

Report No. : 188

Test Time : 2025-01-28 18:36:51

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SELECTA Goniophotometer Test Report

Product Info

Luminaire Category : **MagLight**

Luminaire : **SPIN LINE 111мм 6W 4000K 48v**

Lamp Category : **MagLight**

Lamp : **SPIN LINE 111мм 6W 4000K 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 : **0.0740 A** Power : **6.48 W** Power Factor : **0.396** Frequency : **49.96 Hz**

Photometric Parameters

CIE Class : **Direct**

Measurement Flux : **225.1 lm**

Upward Ratio : **0.00 %**

Maximum Intensity : **399.49 cd/klm**

Central Intensity : **398.33 cd/klm**

Luminaire Efficacy Rating (LER) : **35**

Beam Angle (C0-C180,C90-C270) : **104.6 °, 100.3 °**

Field Angle (C0-C180,C90-C270) : **159.3 °, 154.0 °**

Total Rated Lamp Lumens : **225.1 lm**

Efficiency : **100.00 %**

Downward Ratio : **100.00 %**

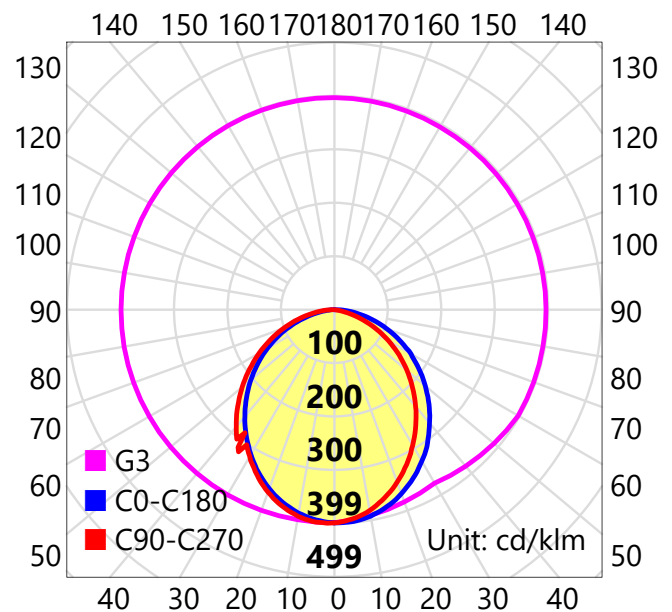
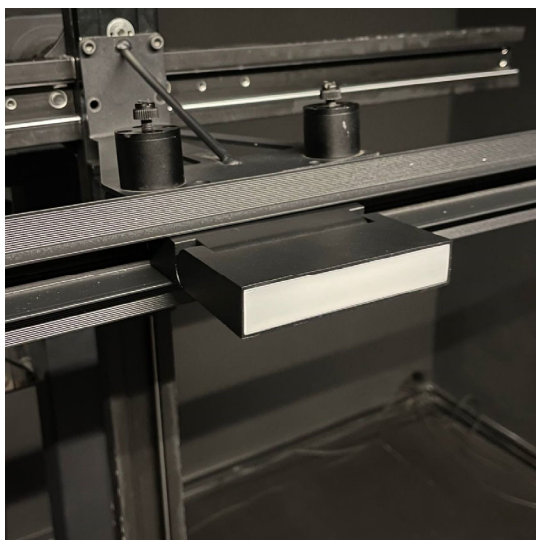
Position Of Maximum Intensity : **C330° γ3°**

S/MH(C0-C180,C90-C270) : **1.20, 1.15**

Energy Efficiency Class : **G (EU 2019/2015 η_{TM}:33lm/W)**

Beam Angle (C45-C225,C135-C315) : **100.6 °, 100.3 °**

Field Angle (C45-C225,C135-C315) : **156.2 °, 158.8 °**



Average Beam Angle (50%): 101.1°

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.

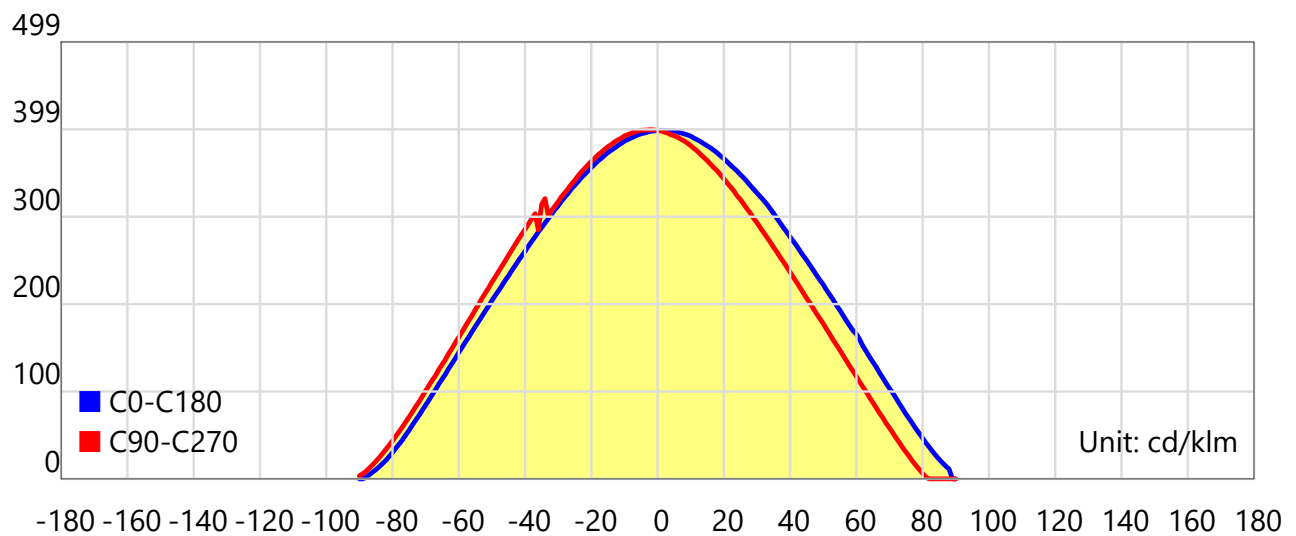
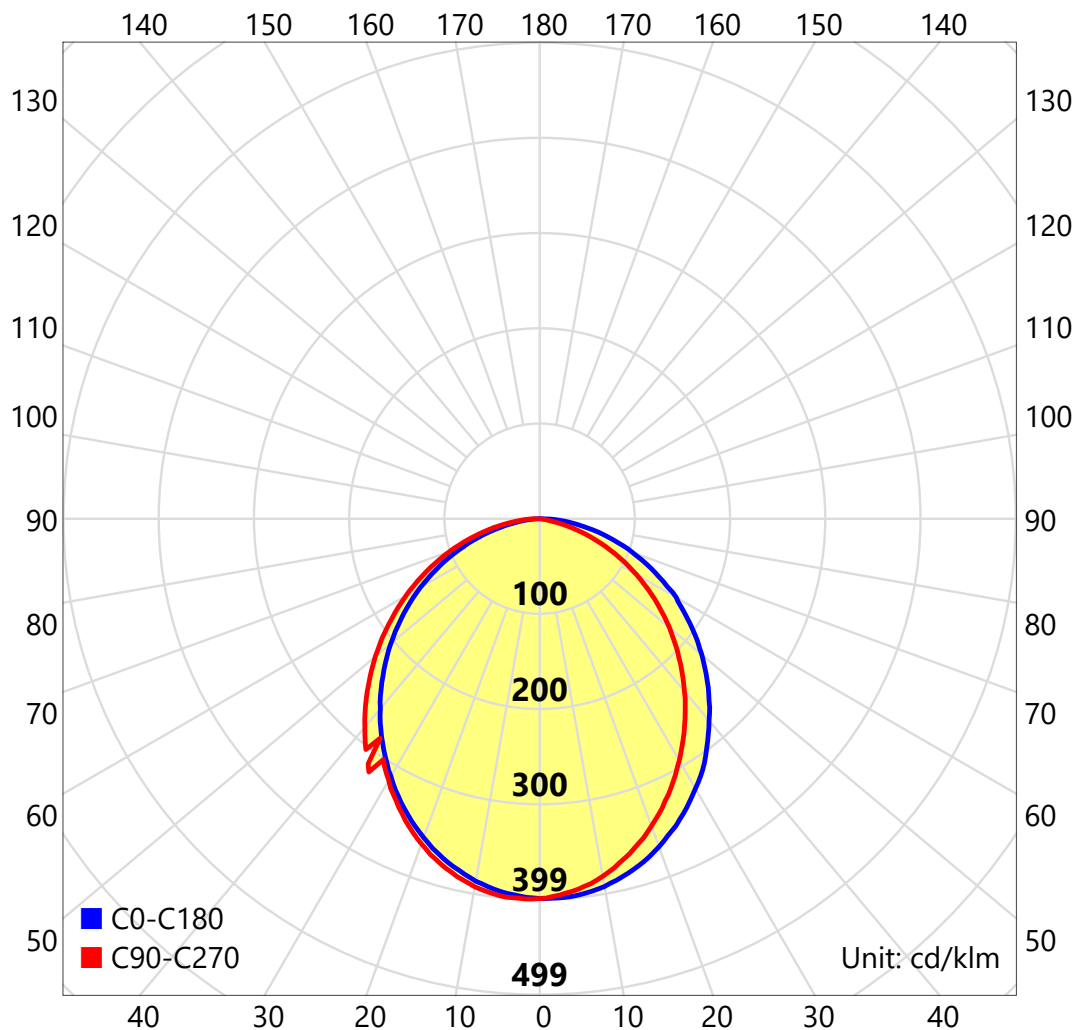
Review By :

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Light Distribution Curve



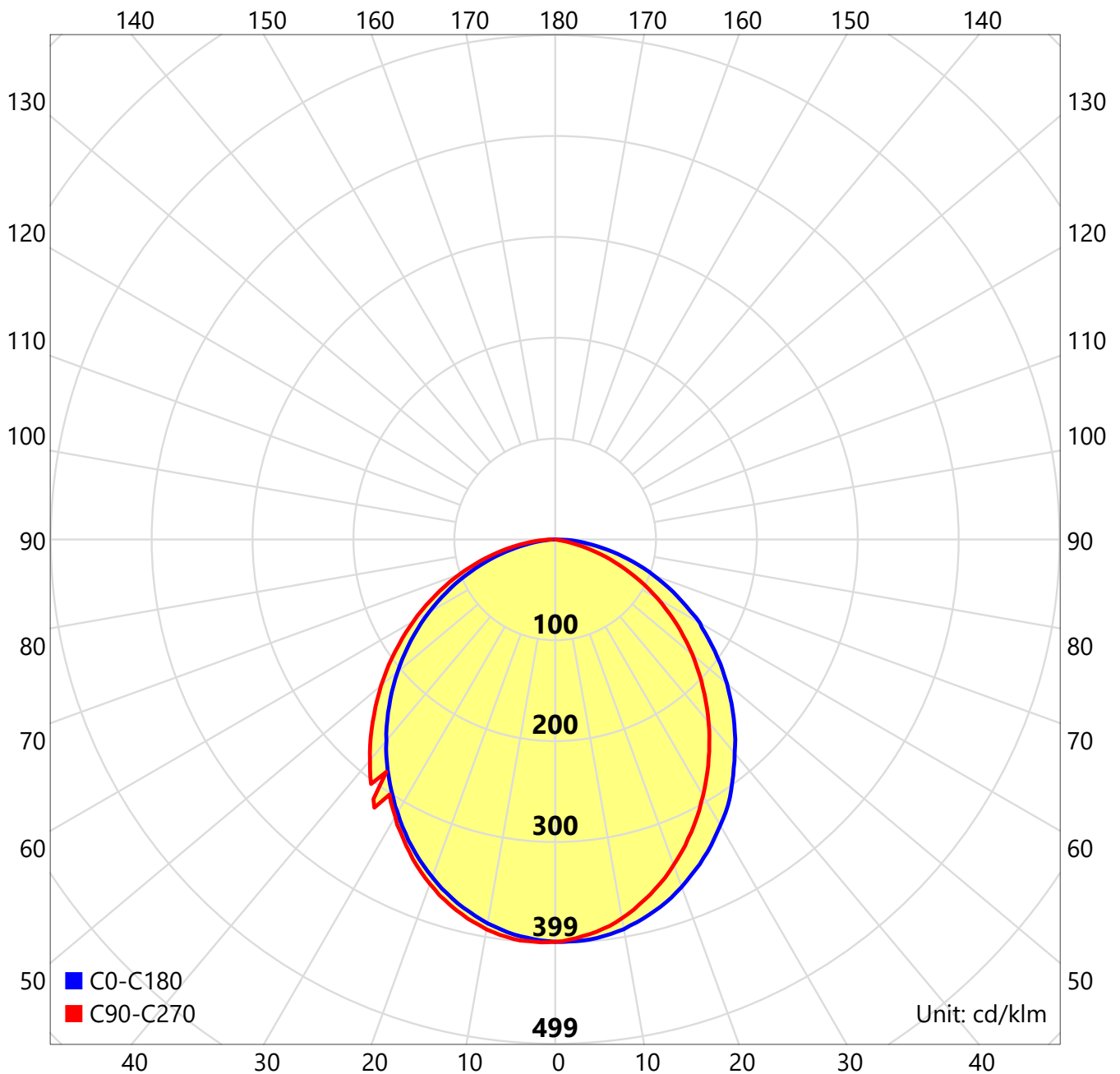
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:30.0γ (°): 0.0-90.0:1.0
 Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
 Test Lab :
 Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



SPIN LINE 111mm 6W 4000K 48v/MagLight

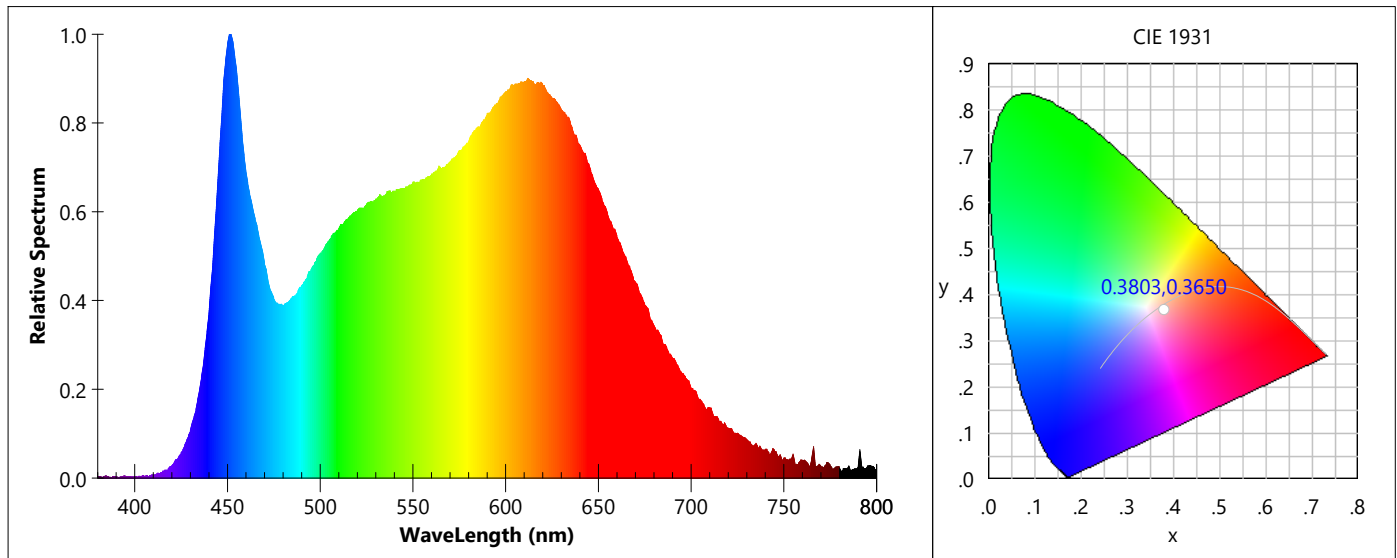
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Color Properties



Colorimetric

CIE(x,y): 0.3803,0.3650

CIE(u,v): 0.2298,0.3308

CIE(u',v'): 0.2298,0.4963

CCT: 3913 K (Duv=-0.005572)

Dominant Wavelength: 602.3 nm

Color Purity: 0.237

Peak Wavelength: 451.4 nm

Half Width: 27.0 nm

Color Ratio: R:0.210, G:0.744, B:0.046

Color Render Index: Ra: 94.9

R1: 97	R2: 98	R3: 98	R4: 96	R5: 97	R6: 94	R7: 92	R8: 87
R9: 71	R10: 98	R11: 98	R12: 79	R13: 99	R14: 100	R15: 96	

Color Quality Scale: Qa: 93.0 , Qf: 92.2 , Qp: 94.9 , Qg: 99.9

Q1: 91	Q2: 98	Q3: 89	Q4: 88	Q5: 93	Q6: 97	Q7: 95	Q8: 96
Q9: 100	Q10: 96	Q11: 95	Q12: 94	Q13: 93	Q14: 90	Q15: 91	

TM-30-18: Rf: 92 , Rg: 100

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 3.498 umol/s
 Photosynthetic Active Radiant Flux (Фe): 0.741 W
 Photons Flux (400~500nm): 0.639 umol/s
 Photons Flux (600~700nm): 1.472 umol/s
 Photons Flux (PFuv 280~400nm): 0.001 umol/s
 Radiant Flux (400~500nm): 0.165 W
 Radiant Flux (600~700nm): 0.276 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 3.085 umol/s
 YPF (500~600nm): 1.209 umol/s
 YPF (700~800nm): 0.036 umol/s
 Radiant Flux (Chl-A): 0.057 W

Photosynthetic Photon Efficacy (Kp): 0.540 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.114
 Photons Flux (500~600nm): 1.387 umol/s
 Photons Flux (PFfr 700~800nm): 0.183 umol/s
 Photons Flux (PF_PBAR): 3.682 umol/s
 Radiant Flux (500~600nm): 0.300 W
 Radiant Flux (700~800nm): 0.030 W
 R/B: 1.7 R/FR: 9.2
 YPF (400~500nm): 0.461 umol/s
 YPF (600~700nm): 1.379 umol/s
 YPF (320~400nm): 0.001 umol/s
 Radiant Flux (Chl-B): 0.104 W

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 :