

Report No. : 190

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SELECTA Goniophotometer Test Report

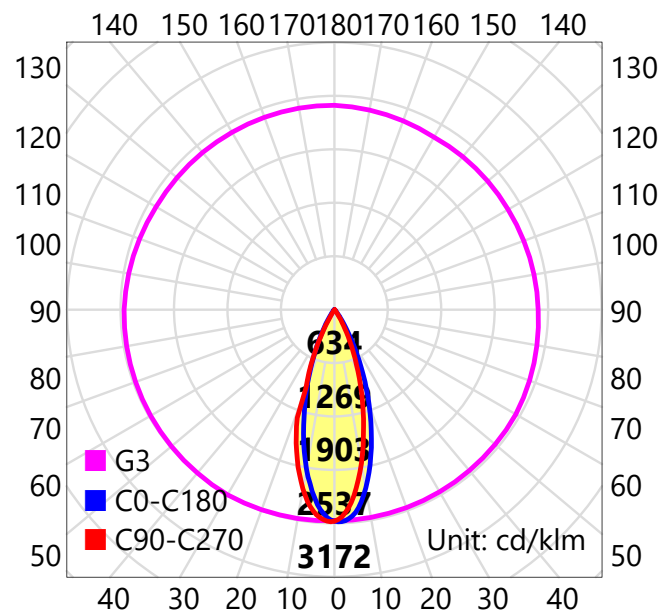
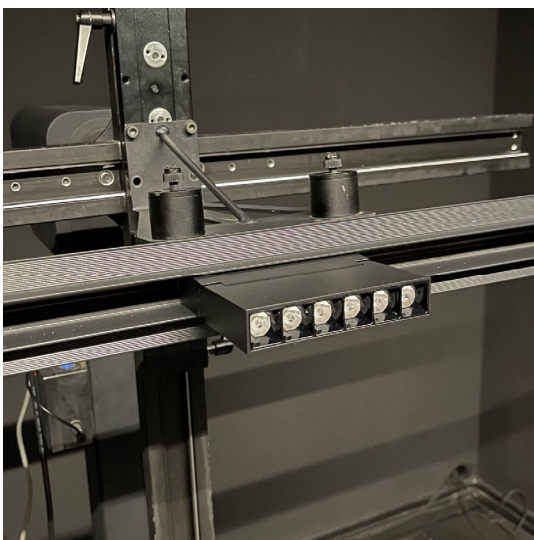
Product Info

Luminaire Category : **MagLight**Luminaire : **SPIN LINE UGR 111мм 6W 6500K 48v**Lamp Category : **MagLight**Lamp : **SPIN LINE UGR 111мм 6W 6500K 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 : **6.79 W** Power Factor : **0.399** Frequency : **49.96 Hz**

Photometric Parameters

CIE Class : **Direct**Measurement Flux : **434.8 lm**Upward Ratio : **0.00 %**Maximum Intensity : **2537.50 cd/klm**Central Intensity : **2510.66 cd/klm**Luminaire Efficacy Rating (LER) : **64**Beam Angle (C0-C180,C90-C270) : **36.0 °, 35.0 °**Field Angle (C0-C180,C90-C270) : **62.0 °, 57.6 °**Total Rated Lamp Lumens : **434.8 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C330° γ3°**S/MH(C0-C180,C90-C270) : **0.59, 0.58**Energy Efficiency Class : **G (EU 2019/2015 η_{TM}:74lm/W)**Beam Angle (C45-C225,C135-C315) : **34.6 °, 34.6 °**Field Angle (C45-C225,C135-C315) : **61.2 °, 61.1 °**

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.

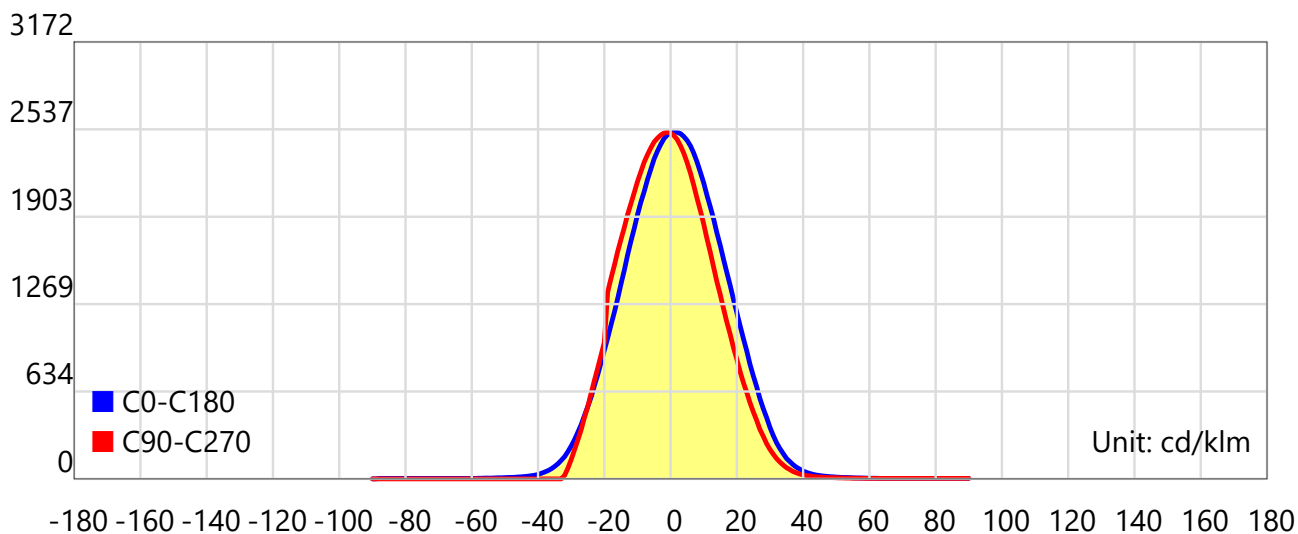
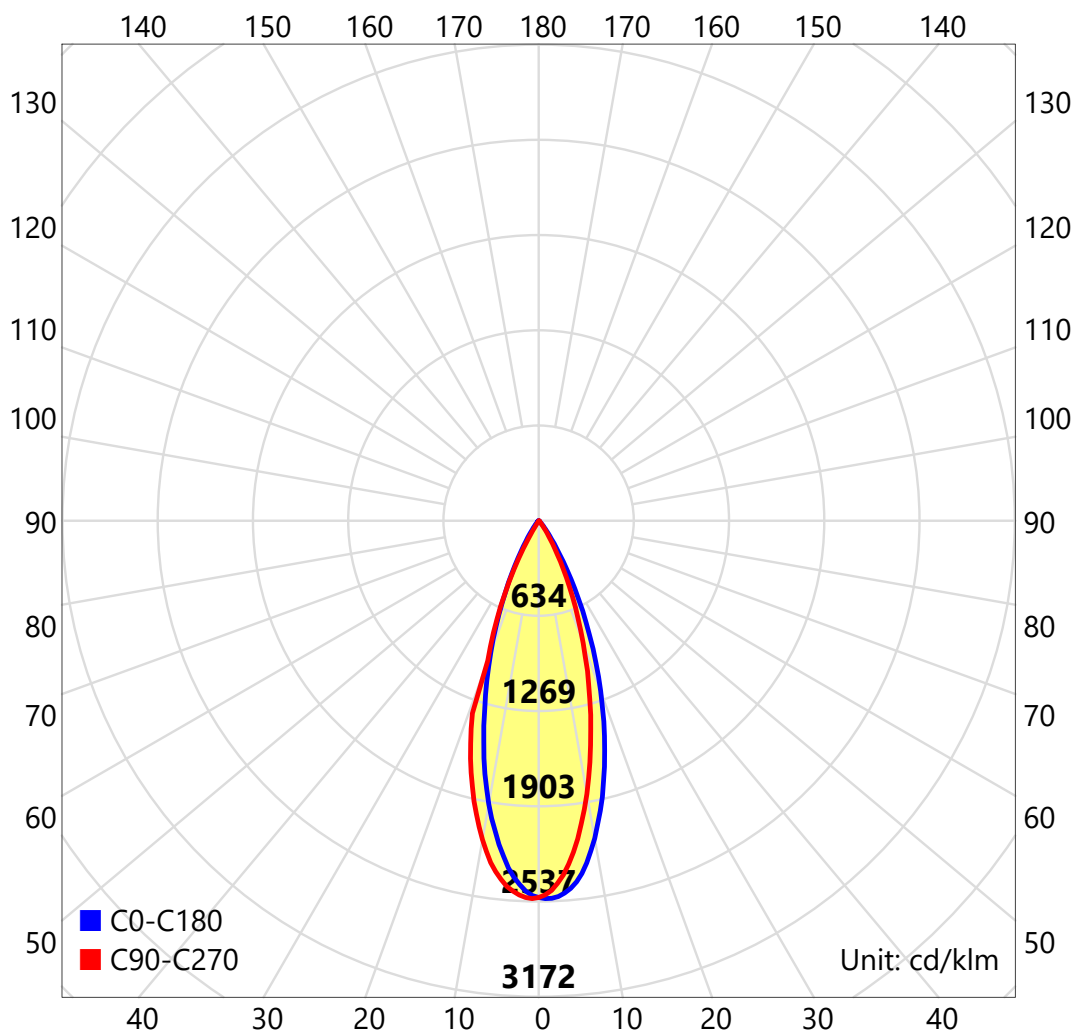
Review By :

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Light Distribution Curve



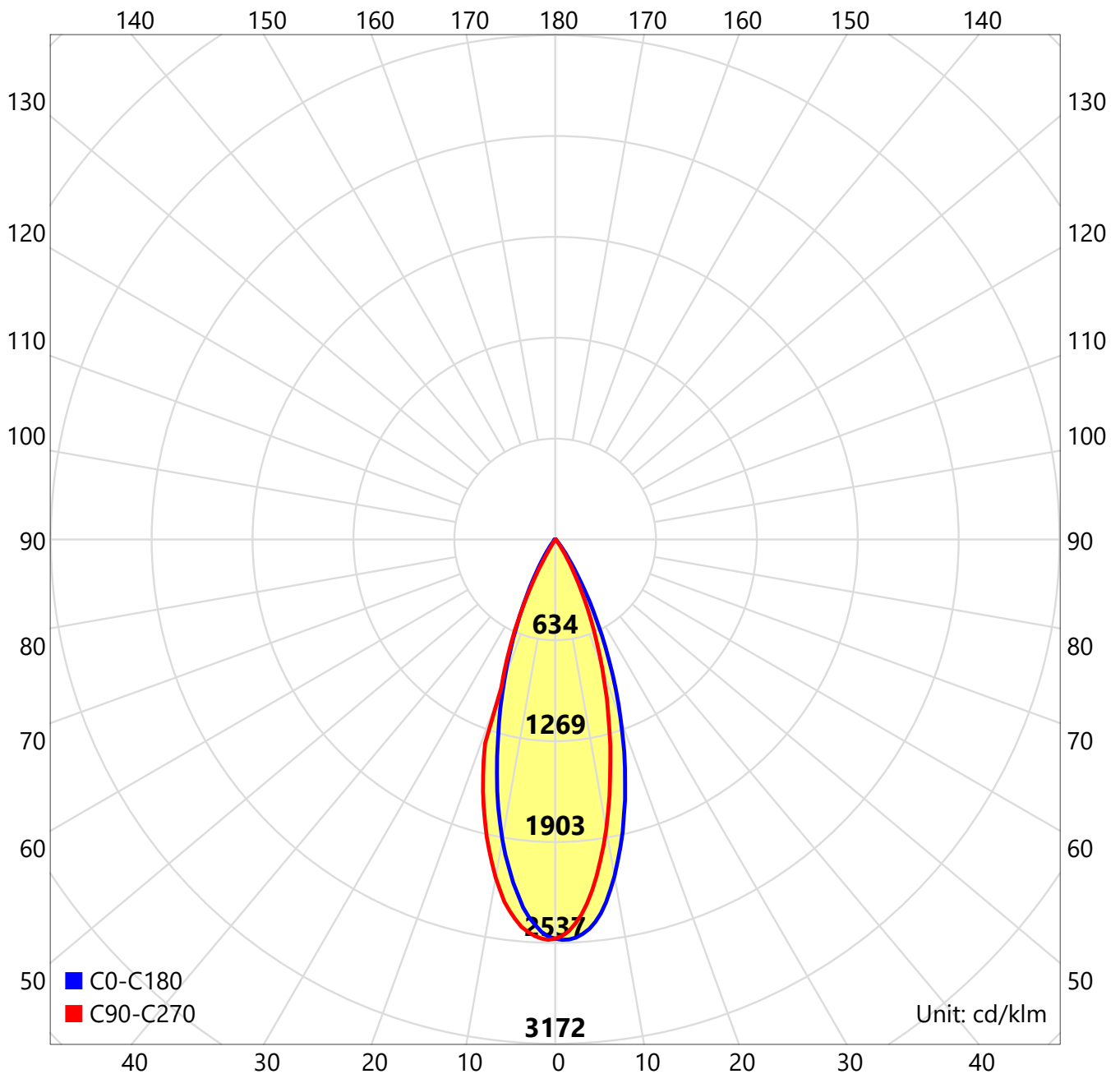
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:30.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



SPIN LINE UGR 111mm 6W 6500K 48v/MagLight

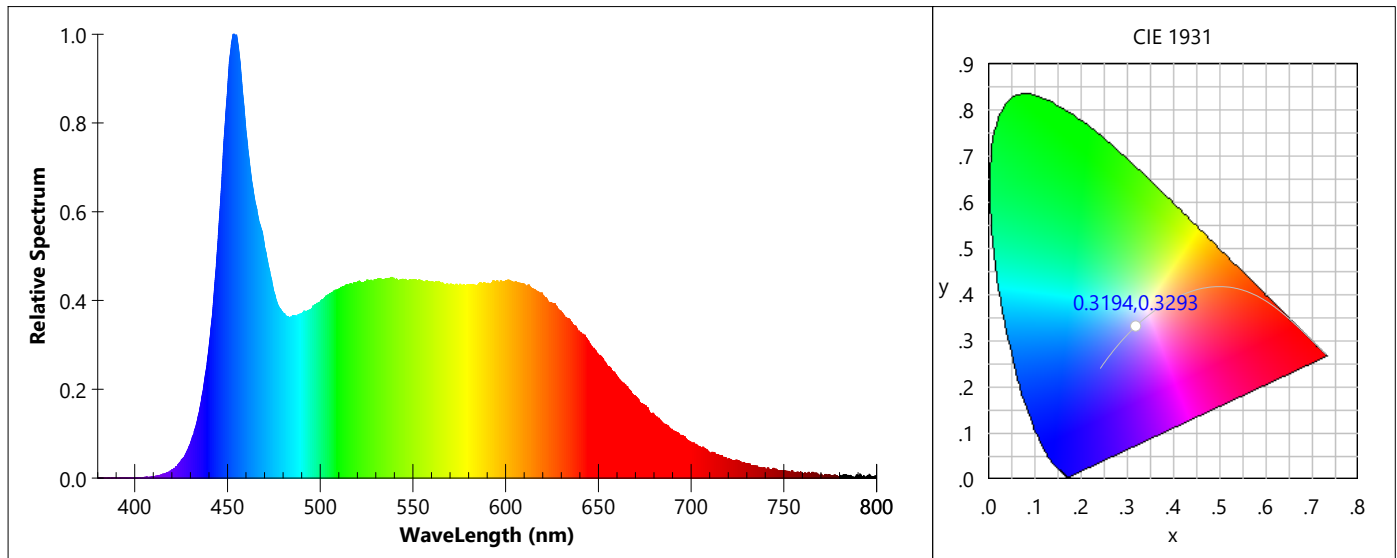
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Color Properties



Colorimetric

CIE(x,y): 0.3194,0.3293

CIE(u,v): 0.2024,0.3130

CIE(u',v'): 0.2024,0.4695

CCT: 6150 K (Duv=0.000044)

Dominant Wavelength: 497.8 nm

Color Purity: 0.050

Peak Wavelength: 453.4 nm

Half Width: 26.8 nm

Color Ratio: R:0.160, G:0.772, B:0.069

Color Render Index: Ra: 93.6

R1: 96	R2: 99	R3: 97	R4: 92	R5: 93	R6: 93	R7: 92	R8: 87
R9: 70	R10: 98	R11: 99	R12: 70	R13: 99	R14: 100	R15: 94	

Color Quality Scale: Qa: 91.1 , Qf: 90.8 , Qp: 91.2 , Qg: 96.8

Q1: 88	Q2: 97	Q3: 89	Q4: 84	Q5: 87	Q6: 90	Q7: 95	Q8: 96
Q9: 99	Q10: 97	Q11: 95	Q12: 94	Q13: 93	Q14: 89	Q15: 89	

TM-30-18: Rf: 89 , Rg: 97

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 6.705 umol/s
 Photosynthetic Active Radiant Flux (Фe): 1.474 W
 Photons Flux (400~500nm): 1.877 umol/s
 Photons Flux (600~700nm): 2.046 umol/s
 Photons Flux (PFuv 280~400nm): 0.001 umol/s
 Radiant Flux (400~500nm): 0.484 W
 Radiant Flux (600~700nm): 0.384 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 5.715 umol/s
 YPF (500~600nm): 2.391 umol/s
 YPF (700~800nm): 0.043 umol/s
 Radiant Flux (Chl-A): 0.096 W

Photosynthetic Photon Efficacy (Kp): 0.987 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.217
 Photons Flux (500~600nm): 2.781 umol/s
 Photons Flux (PFfr 700~800nm): 0.203 umol/s
 Photons Flux (PF_PBAR): 6.909 umol/s
 Radiant Flux (500~600nm): 0.605 W
 Radiant Flux (700~800nm): 0.033 W
 R/B: 0.8 R/FR: 11.5
 YPF (400~500nm): 1.352 umol/s
 YPF (600~700nm): 1.928 umol/s
 YPF (320~400nm): 0.000 umol/s
 Radiant Flux (Chl-B): 0.262 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 :