

Report No. : 203

Test Time : 2025-02-07 11:40:23

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SELECTA Goniophotometer Test Report

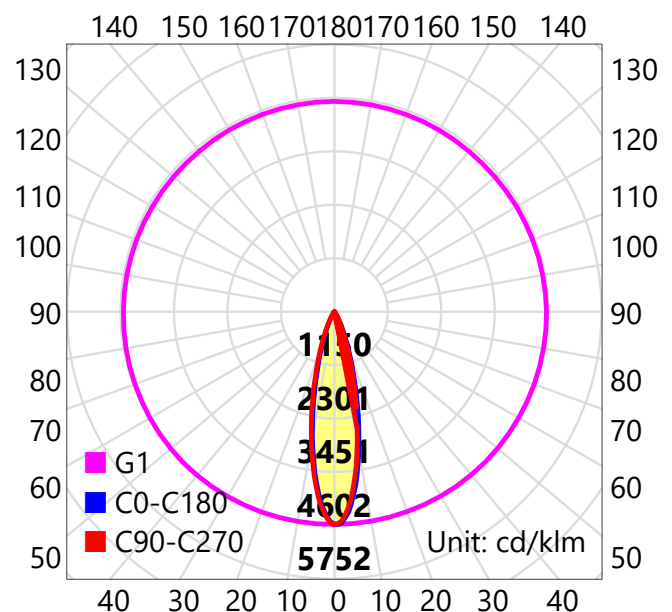
Product Info

Luminaire Category : **MagLight**Luminaire : **Spin Line UGR 220мм 2700K**Lamp Category : **MagLight**Lamp : **Spin Line UGR 220мм 2700K**Manufacturer : **Selecta**Submitter : **Gubarev S. S.**Nuber of Lamps : **1**Lumens per Lamp : **0 lm**Luminous Length : **22 mm**Luminous Width : **218 mm**Luminous Height : **145 mm**

Electric Parameters

Voltage : **219.90 V** Current : **0.1410 A** Power : **13.51 W** Power Factor : **0.436** Frequency : **49.96 Hz**

Photometric Parameters

CIE Class : **Direct**Measurement Flux : **898.6 lm**Upward Ratio : **0.00 %**Maximum Intensity : **4601.99 cd/klm**Central Intensity : **4577.80 cd/klm**Luminaire Efficacy Rating (LER) : **67**Beam Angle (C0-C180,C90-C270) : **24.8 °, 23.6 °**Field Angle (C0-C180,C90-C270) : **48.0 °, 48.4 °**Total Rated Lamp Lumens : **898.6 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C315° γ1°**S/MH(C0-C180,C90-C270) : **0.42, 0.39**Energy Efficiency Class : **G (EU 2019/2015 η_{TM}:77lm/W)**Beam Angle (C45-C225,C135-C315) : **24.1 °, 24.1 °**Field Angle (C45-C225,C135-C315) : **46.0 °, 45.8 °**

Average Beam Angle (50%): 24.1°

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.

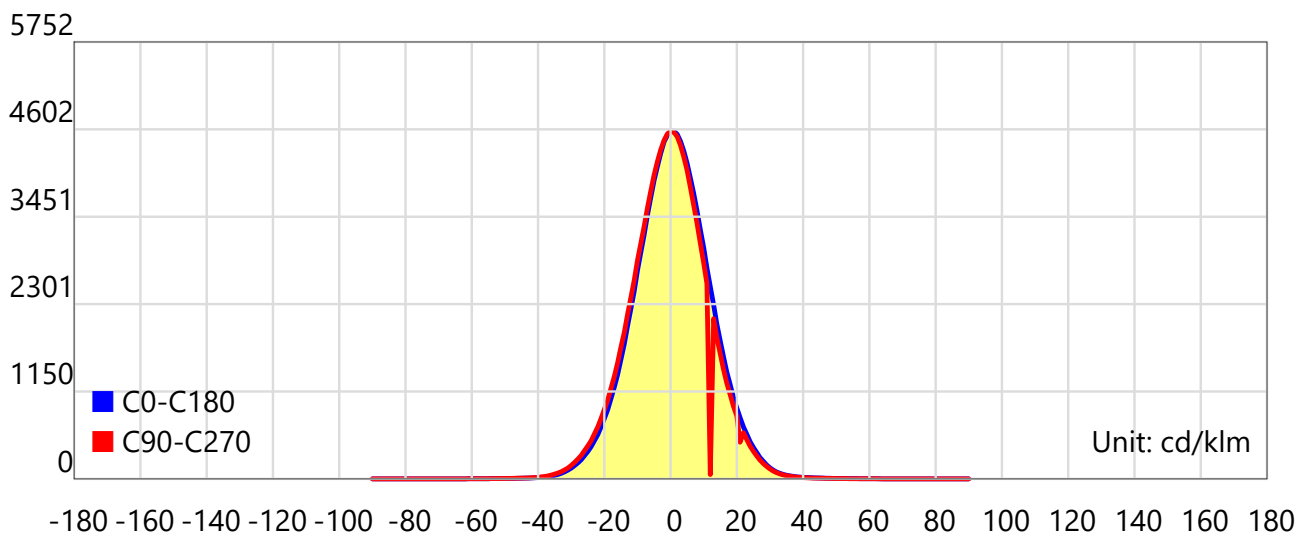
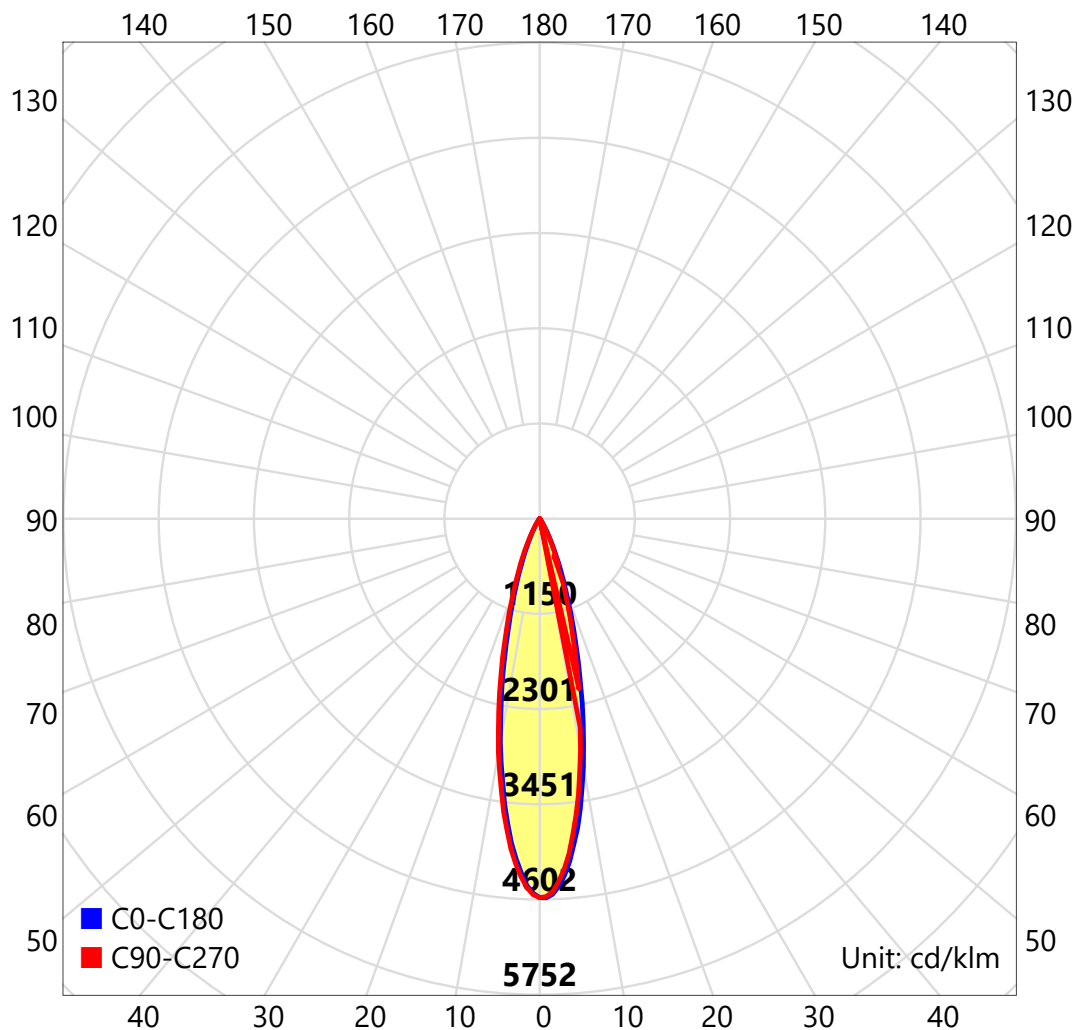
Review By :

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Light Distribution Curve



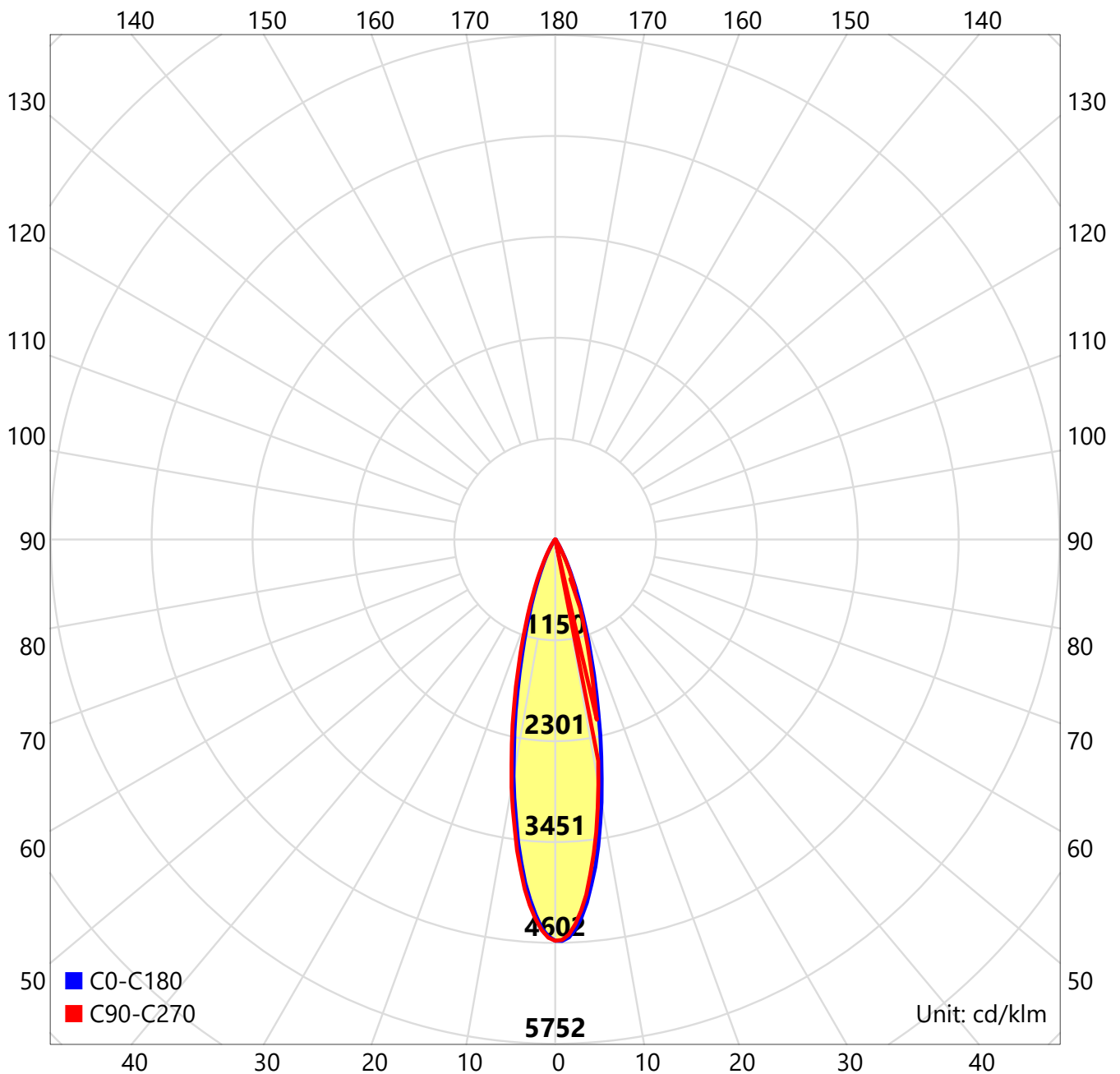
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



Spin Line UGR 220мм 2700K/MagLight

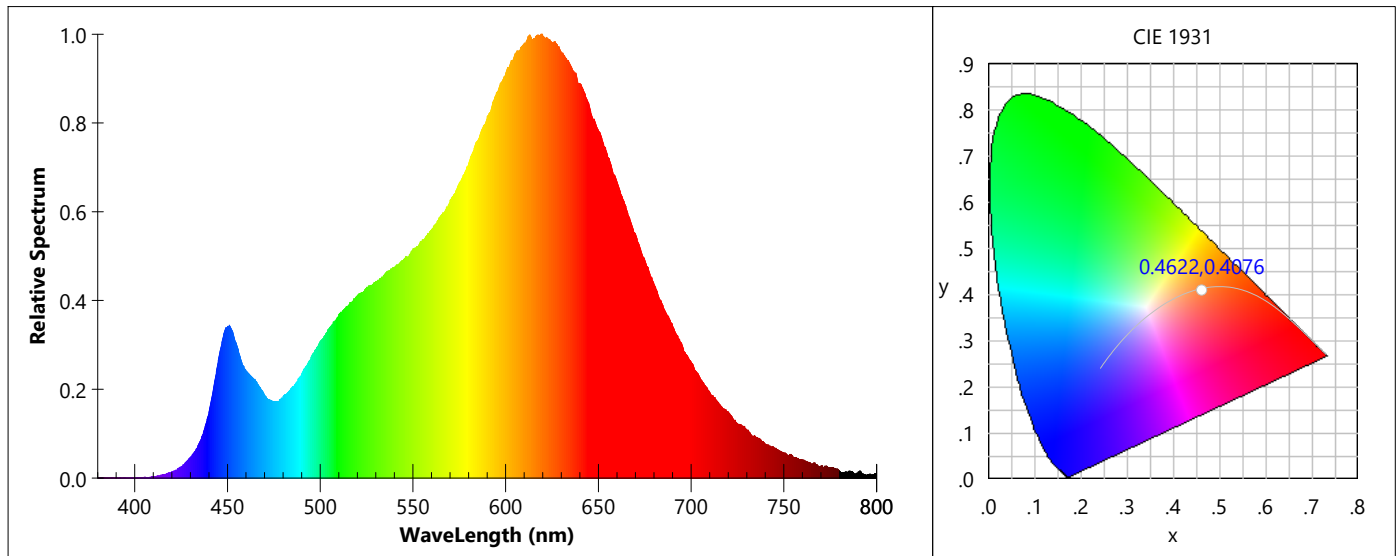
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Color Properties



Colorimetric

CIE(x,y): 0.4622,0.4076

CIE(u,v): 0.2654,0.3510

CIE(u',v'): 0.2654,0.5266

CCT: 2645 K (Duv=-0.001290)

Dominant Wavelength: 584.9 nm

Color Purity: 0.611

Peak Wavelength: 618.9 nm

Half Width: 126.3 nm

Color Ratio: R:0.271, G:0.703, B:0.025

Color Render Index: Ra: 92.1

R1: 93	R2: 98	R3: 97	R4: 93	R5: 94	R6: 97	R7: 88	R8: 76
R9: 50	R10: 96	R11: 98	R12: 90	R13: 95	R14: 99	R15: 87	

Color Quality Scale: Qa: 90.1 , Qf: 89.8 , Qp: 93.6 , Qg: 95.5

Q1: 85	Q2: 94	Q3: 91	Q4: 91	Q5: 93	Q6: 93	Q7: 91	Q8: 91
Q9: 95	Q10: 94	Q11: 93	Q12: 92	Q13: 90	Q14: 84	Q15: 84	

TM-30-18: Rf: 92 , Rg: 99

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 14.384 umol/s
 Photosynthetic Active Radiant Flux (Фe): 2.917 W
 Photons Flux (400~500nm): 1.221 umol/s
 Photons Flux (600~700nm): 7.931 umol/s
 Photons Flux (PFuv 280~400nm): 0.001 umol/s
 Radiant Flux (400~500nm): 0.314 W
 Radiant Flux (600~700nm): 1.482 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 13.127 umol/s
 YPF (500~600nm): 4.639 umol/s
 YPF (700~800nm): 0.209 umol/s
 Radiant Flux (Chl-A): 0.258 W

Photosynthetic Photon Efficacy (Kp): 1.065 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.216
 Photons Flux (500~600nm): 5.232 umol/s
 Photons Flux (PFfr 700~800nm): 0.981 umol/s
 Photons Flux (PF_PBAR): 15.366 umol/s
 Radiant Flux (500~600nm): 1.122 W
 Radiant Flux (700~800nm): 0.162 W
 R/B: 4.7 R/FR: 9.2
 YPF (400~500nm): 0.877 umol/s
 YPF (600~700nm): 7.402 umol/s
 YPF (320~400nm): 0.000 umol/s
 Radiant Flux (Chl-B): 0.295 W

Test Type : Type C Test Distance : 7.922 m
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 Test Lab :
 Test By : Gubarev S. S.

C Plane (°): 0.0-360.0:45.0γ (°) : 0.0-90.0:1.0
 Temperature : 21.0°C Humidity : 22.0%

Review By :