

Report No. : 192

Test Time : 2025-01-29 19:19:59

Page 1 of 4

SELECTA Goniophotometer Test Report

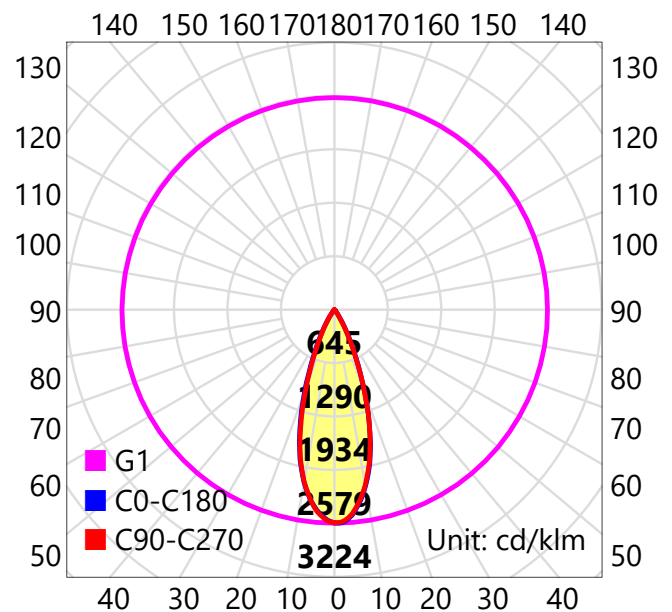
Product Info

Luminaire Category : **MagLight**Luminaire : **LINE UGR 220мм 2700K 48v**Lamp Category : **MagLight**Lamp : **LINE UGR 220мм 2700K 48v**Manufacturer : **Selecta**Submitter : **Gubarev S. S.**Nuber of Lamps : **1**Lumens per Lamp : **0 lm**Luminous Length : **220 mm**Luminous Width : **22 mm**Luminous Height : **43 mm**

Electric Parameters

Voltage : **219.80 V** Current : **0.1370 A** Power : **13.12 W** Power Factor : **0.434** Frequency : **49.99 Hz**

Photometric Parameters

CIE Class : **Direct**Measurement Flux : **890.4 lm**Upward Ratio : **0.00 %**Maximum Intensity : **2579.15 cd/klm**Central Intensity : **2570.98 cd/klm**Luminaire Efficacy Rating (LER) : **68**Beam Angle (C0-C180,C90-C270) : **36.3 °, 35.9 °**Field Angle (C0-C180,C90-C270) : **59.7 °, 59.3 °**Total Rated Lamp Lumens : **890.4 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C45° γ1°**S/MH(C0-C180,C90-C270) : **0.60, 0.59**Energy Efficiency Class : **G (EU 2019/2015 η_{TM}:79lm/W)**Beam Angle (C45-C225,C135-C315) : **35.9 °, 34.7 °**Field Angle (C45-C225,C135-C315) : **59.6 °, 59.7 °**

Average Beam Angle (50%): 35.7°

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.

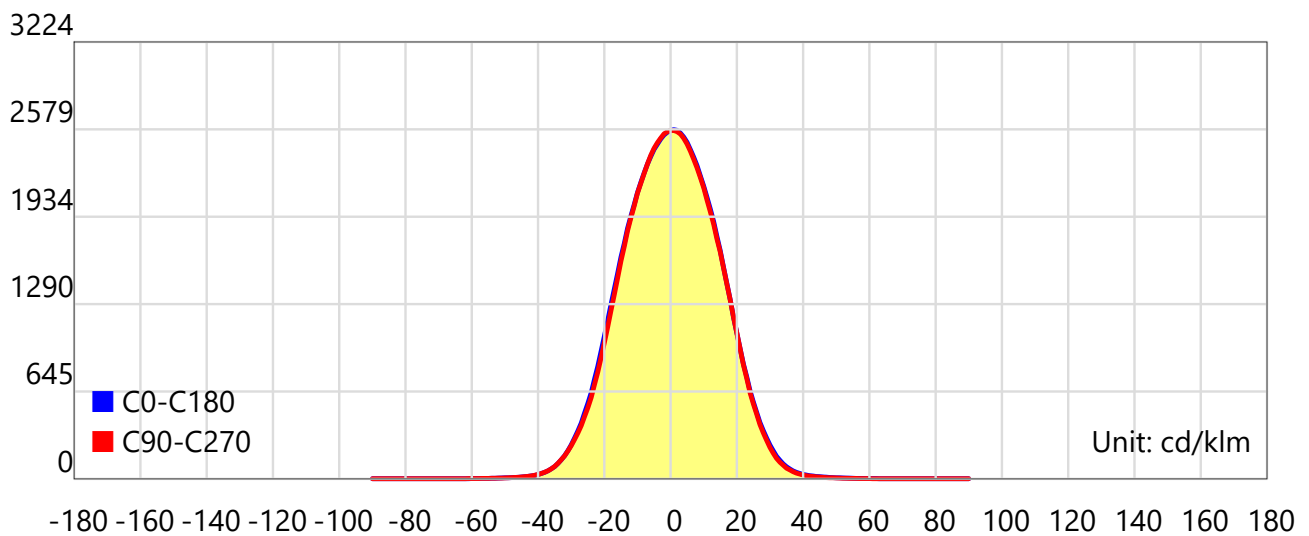
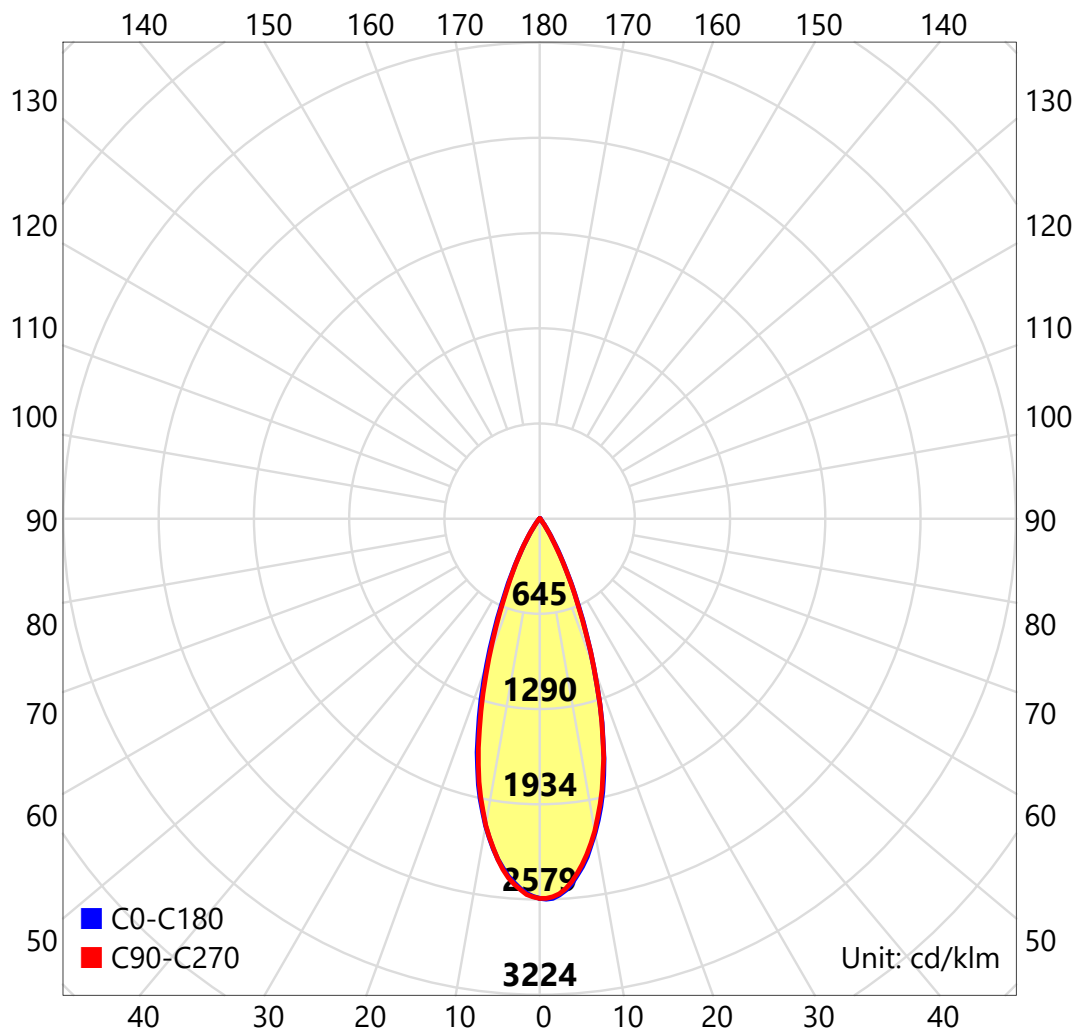
Review By :

Report No. : 192

Test Time : 2025-01-29 19:19:59

Page 2 of 4

Light Distribution Curve



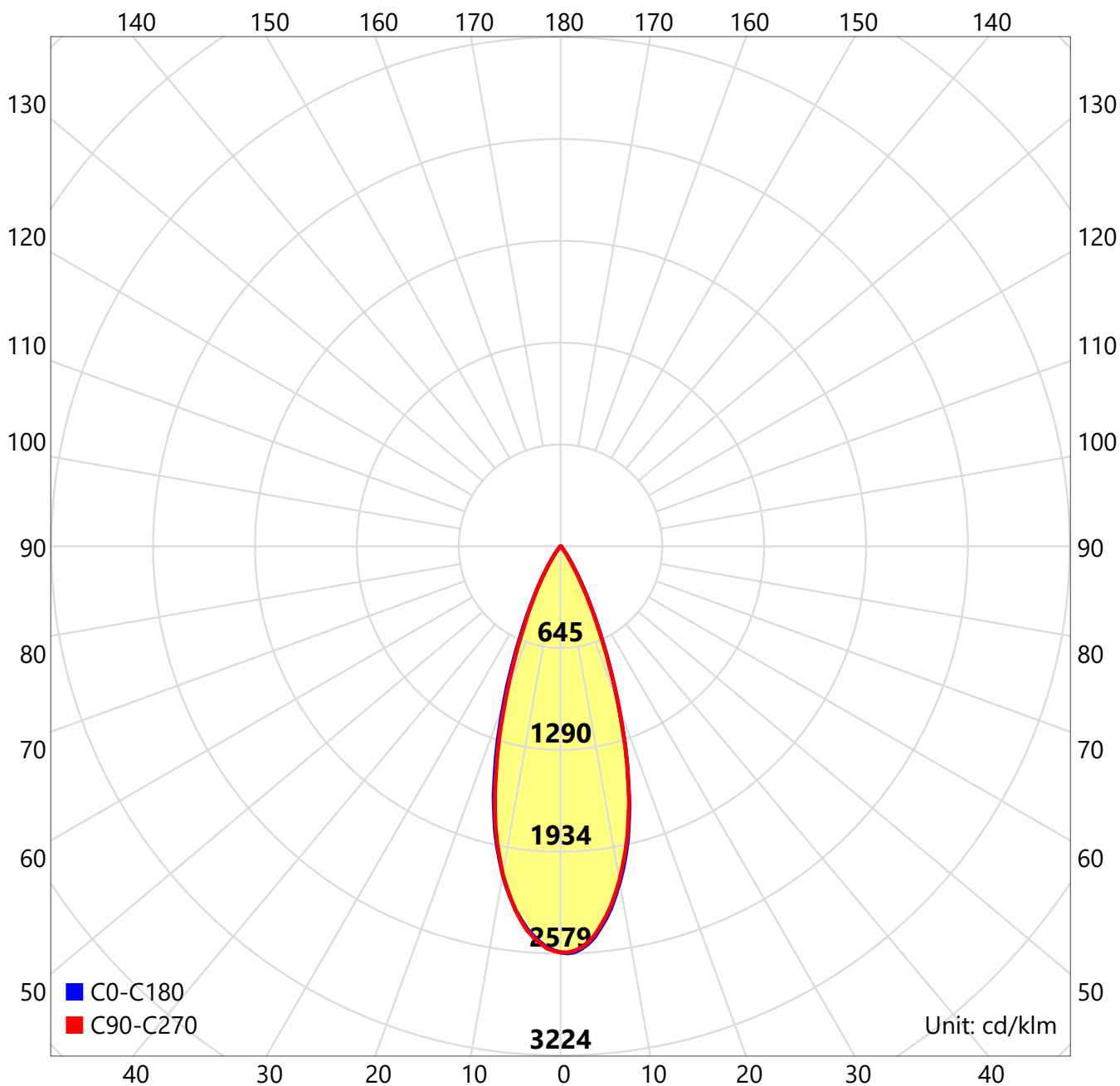
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

Report No. : 192

Test Time : 2025-01-29 19:19:59

Page 3 of 4

Light Distribution Curve (cd/klm)



LINE UGR 220мм 2700K 48v/MagLight

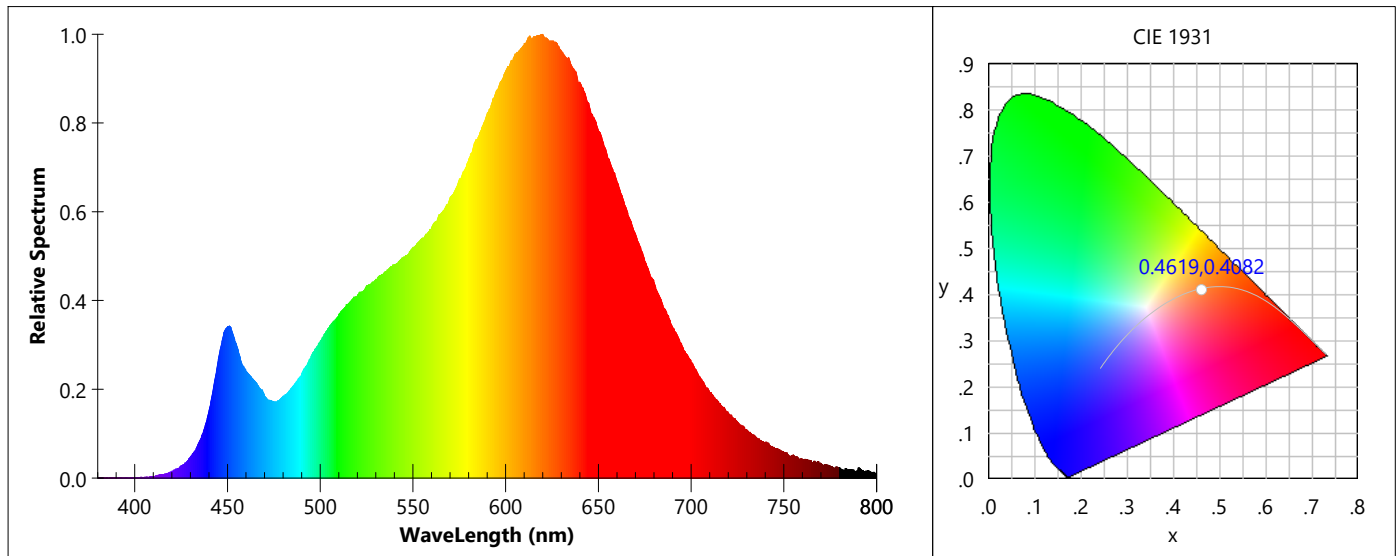
$\eta=100\%$

Report No. : 192

Test Time : 2025-01-29 19:19:59

Page 4 of 4

Color Properties



Colorimetric

CIE(x,y): 0.4619,0.4082

CIE(u,v): 0.2649,0.3512

CIE(u',v'): 0.2649,0.5268

CCT: 2653 K (Duv=-0.001038)

Dominant Wavelength: 584.8 nm

Color Purity: 0.612

Peak Wavelength: 619.5 nm

Half Width: 128.8 nm

Color Ratio: R:0.270, G:0.705, B:0.025

Color Render Index: Ra: 92.0

R1: 93	R2: 98	R3: 97	R4: 93	R5: 94	R6: 97	R7: 88	R8: 76
R9: 49	R10: 95	R11: 98	R12: 90	R13: 95	R14: 99	R15: 87	

Color Quality Scale: Qa: 90.0 , Qf: 89.8 , Qp: 93.3 , Qg: 95.2

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): 14.222 umol/s
 Photosynthetic Active Radiant Flux (Фe): 2.885 W
 Photons Flux (400~500nm): 1.205 umol/s
 Photons Flux (600~700nm): 7.822 umol/s
 Photons Flux (PFuv 280~400nm): 0.001 umol/s
 Radiant Flux (400~500nm): 0.310 W
 Radiant Flux (600~700nm): 1.461 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 12.980 umol/s
 YPF (500~600nm): 4.606 umol/s
 YPF (700~800nm): 0.207 umol/s
 Radiant Flux (Chl-A): 0.255 W

Photosynthetic Photon Efficacy (Kp): 1.084 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.220
 Photons Flux (500~600nm): 5.195 umol/s
 Photons Flux (PFfr 700~800nm): 1.002 umol/s
 Photons Flux (PF_PBAR): 15.225 umol/s
 Radiant Flux (500~600nm): 1.114 W
 Radiant Flux (700~800nm): 0.165 W
 R/B: 4.7 R/FR: 8.9
 YPF (400~500nm): 0.866 umol/s
 YPF (600~700nm): 7.300 umol/s
 YPF (320~400nm): 0.000 umol/s
 Radiant Flux (Chl-B): 0.291 W

Test Type : Type C Test Distance : 7.922 m
 Test Device : Lisun LSG-1800A
 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 :