

Report No. : 194

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SELECTA Goniophotometer Test Report

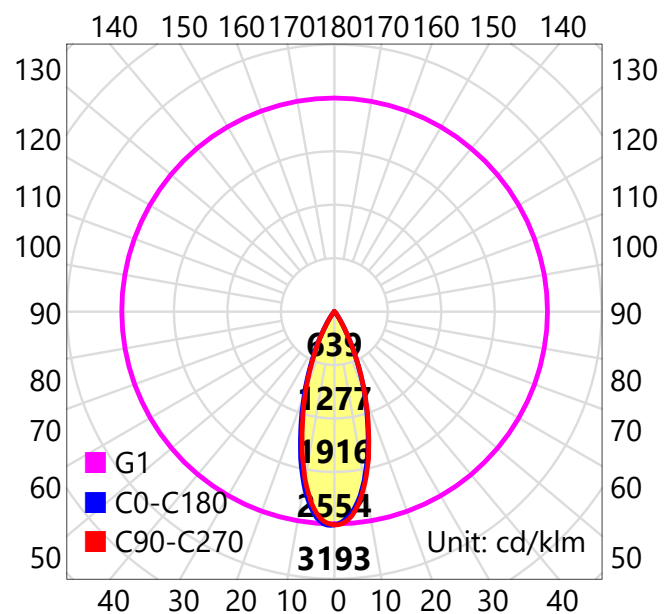
Product Info

Luminaire Category : **MagLight**Luminaire : **LINE UGR 220мм 6500K 48v**Lamp Category : **MagLight**Lamp : **LINE UGR 220мм 6500K 48v**Manufacturer : **Selecta**Submitter : **Gubarev S. S.**Nuber of Lamps : **1**Lumens per Lamp : **0 lm**Luminous Length : **220 mm**Luminous Width : **50 mm**Luminous Height : **50 mm**

Electric Parameters

Voltage : **219.90 V** Current : **0.1340 A** Power : **12.78 W** Power Factor : **0.432** Frequency : **49.96 Hz**

Photometric Parameters

CIE Class : **Direct**Measurement Flux : **944.9 lm**Upward Ratio : **0.00 %**Maximum Intensity : **2554.23 cd/klm**Central Intensity : **2548.11 cd/klm**Luminaire Efficacy Rating (LER) : **74**Beam Angle (C0-C180,C90-C270) : **35.5 °, 35.2 °**Field Angle (C0-C180,C90-C270) : **61.4 °, 61.1 °**Total Rated Lamp Lumens : **944.9 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C180° γ1°**S/MH(C0-C180,C90-C270) : **0.58, 0.57**Energy Efficiency Class : **F (EU 2019/2015 η_{TM}:86lm/W)**Beam Angle (C45-C225,C135-C315) : **34.4 °, 34.3 °**Field Angle (C45-C225,C135-C315) : **62.3 °, 59.1 °**

Average Beam Angle (50%): 34.9°

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.

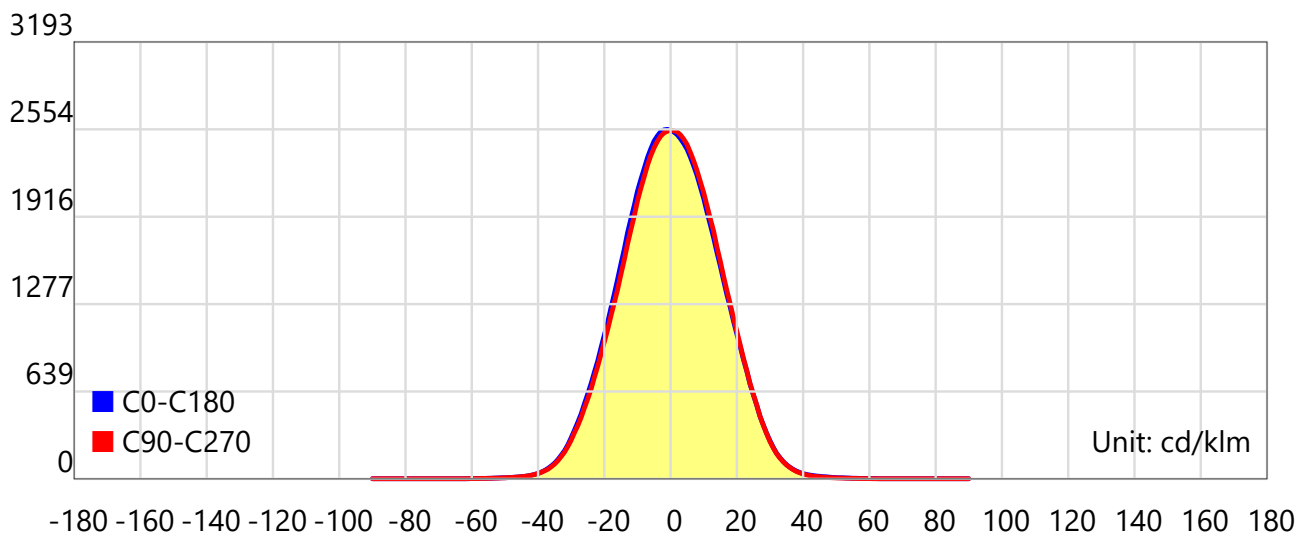
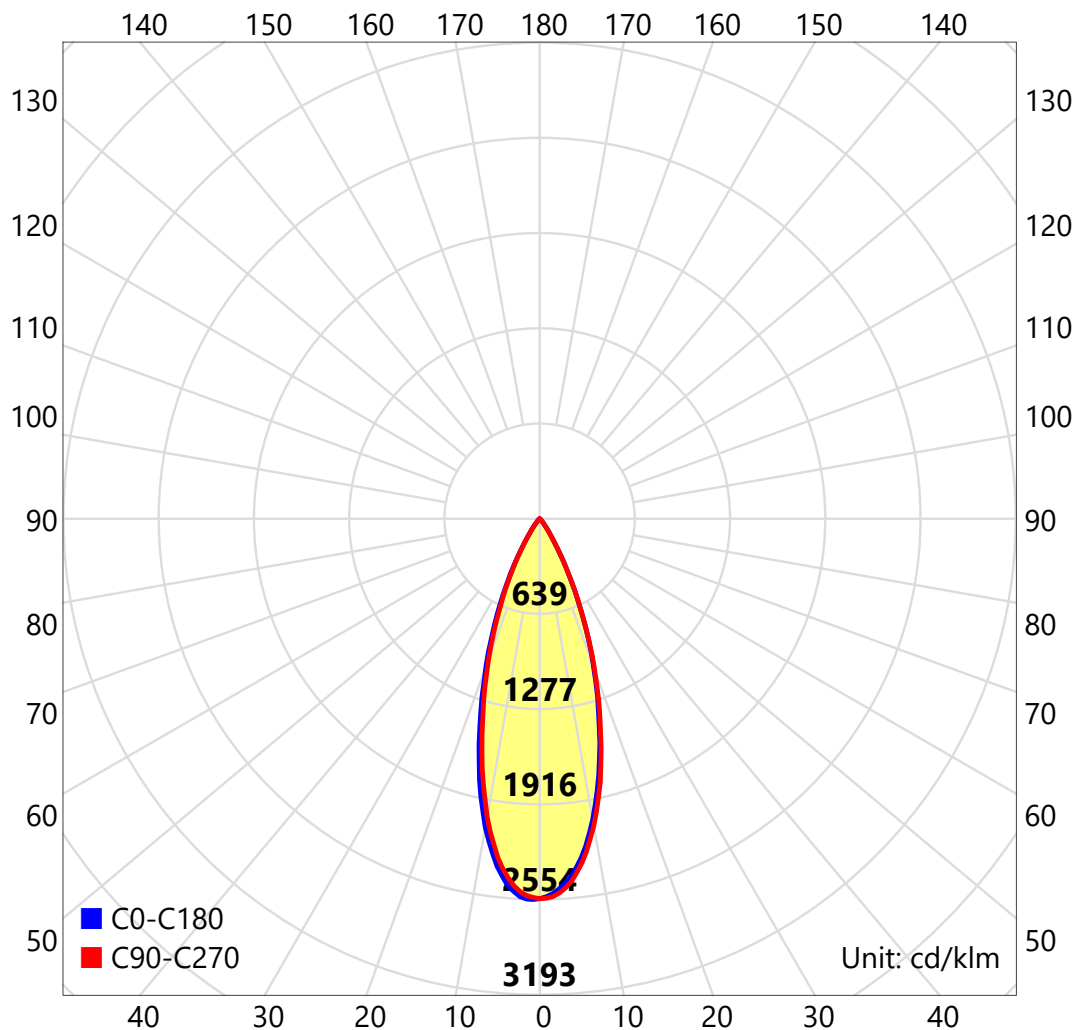
Review By :

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Light Distribution Curve



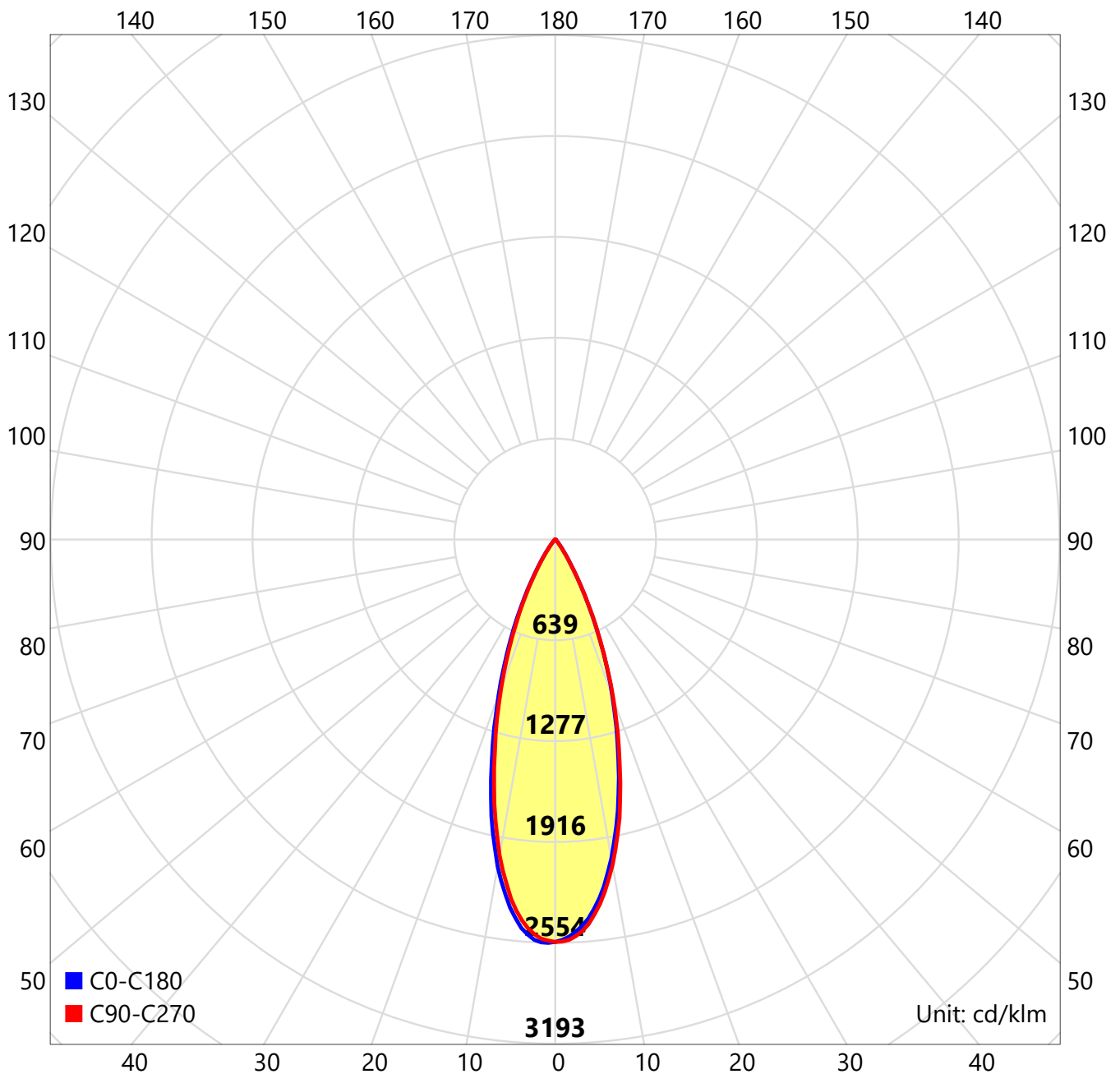
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



LINE UGR 220мм 6500K 48v/MagLight

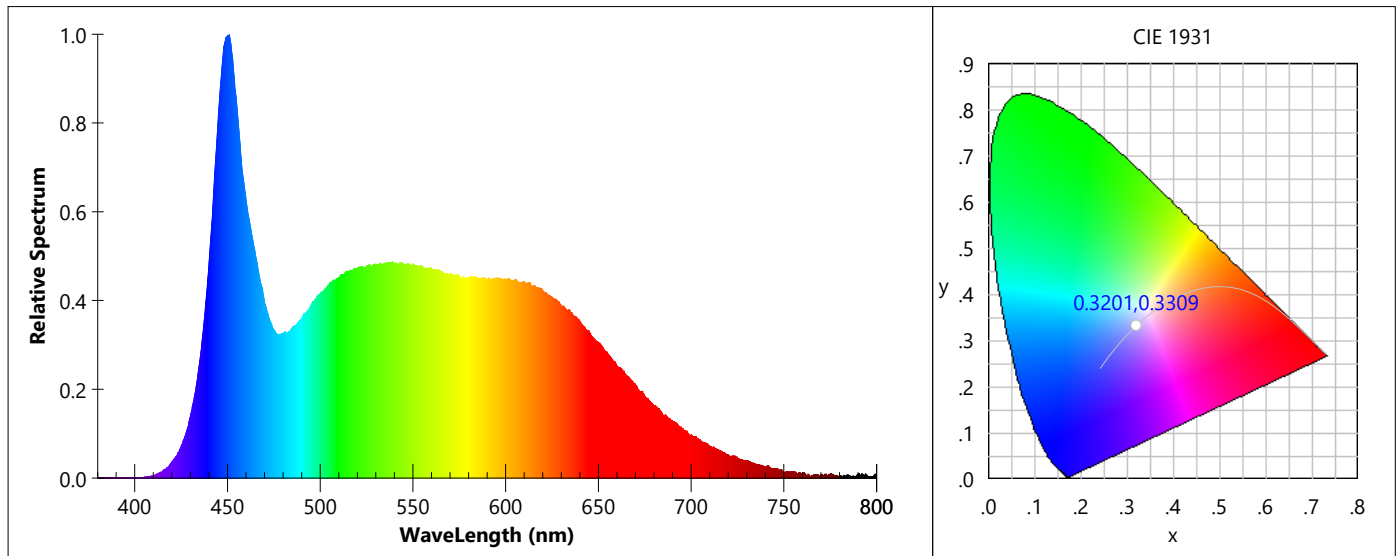
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Color Properties



Colorimetric

CIE(x,y): 0.3201,0.3309

CIE(u,v): 0.2022,0.3136

CIE(u',v'): 0.2022,0.4704

CCT: 6106 K (Duv=0.000526)

Dominant Wavelength: 489.4 nm

Color Purity: 0.046

Peak Wavelength: 450.6 nm

Half Width: 25.0 nm

Color Ratio: R:0.157, G:0.781, B:0.062

Color Render Index: Ra: 93.7

| | | | | | | | |
|--------|---------|---------|---------|---------|---------|---------|--------|
| R1: 95 | R2: 96 | R3: 95 | R4: 95 | R5: 94 | R6: 92 | R7: 95 | R8: 89 |
| R9: 68 | R10: 89 | R11: 96 | R12: 72 | R13: 96 | R14: 97 | R15: 94 | |

Color Quality Scale: Qa: 91.2 , Qf: 90.6 , Qp: 92.5 , Qg: 98.5

| | | | | | | | |
|--------|---------|---------|---------|---------|---------|---------|--------|
| Q1: 93 | Q2: 99 | Q3: 85 | Q4: 84 | Q5: 90 | Q6: 93 | Q7: 95 | Q8: 97 |
| Q9: 97 | Q10: 93 | Q11: 92 | Q12: 92 | Q13: 93 | Q14: 89 | Q15: 91 | |

TM-30-18: Rf: 91 , Rg: 99

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 14.575 umol/s
 Photosynthetic Active Radiant Flux (Фe): 3.200 W
 Photons Flux (400~500nm): 3.931 umol/s
 Photons Flux (600~700nm): 4.538 umol/s
 Photons Flux (PFuv 280~400nm): 0.001 umol/s
 Radiant Flux (400~500nm): 1.020 W
 Radiant Flux (600~700nm): 0.850 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 12.454 umol/s
 YPF (500~600nm): 5.241 umol/s
 YPF (700~800nm): 0.107 umol/s
 Radiant Flux (Chl-A): 0.227 W

Photosynthetic Photon Efficacy (Kp): 1.140 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.250
 Photons Flux (500~600nm): 6.106 umol/s
 Photons Flux (PFfr 700~800nm): 0.484 umol/s
 Photons Flux (PF_PBAR): 15.060 umol/s
 Radiant Flux (500~600nm): 1.330 W
 Radiant Flux (700~800nm): 0.080 W
 R/B: 0.8 R/FR: 10.6
 YPF (400~500nm): 2.848 umol/s
 YPF (600~700nm): 4.257 umol/s
 YPF (320~400nm): 0.001 umol/s
 Radiant Flux (Chl-B): 0.560 W

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 :