

Report No. : 198

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SELECTA Goniophotometer Test Report

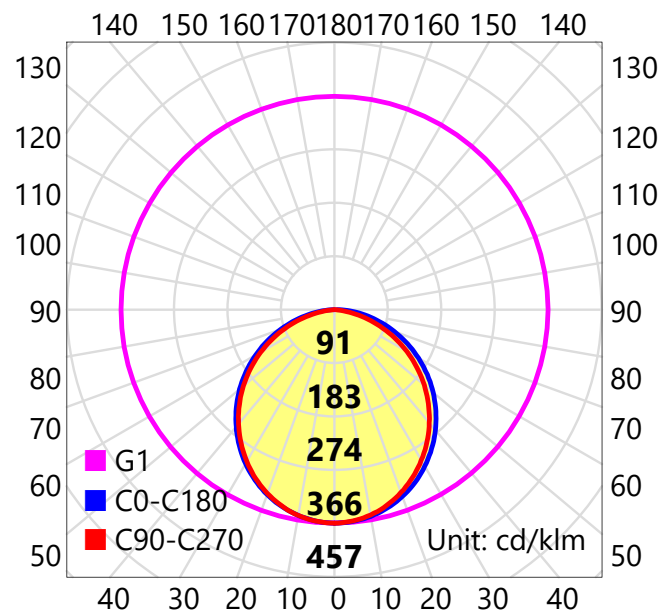
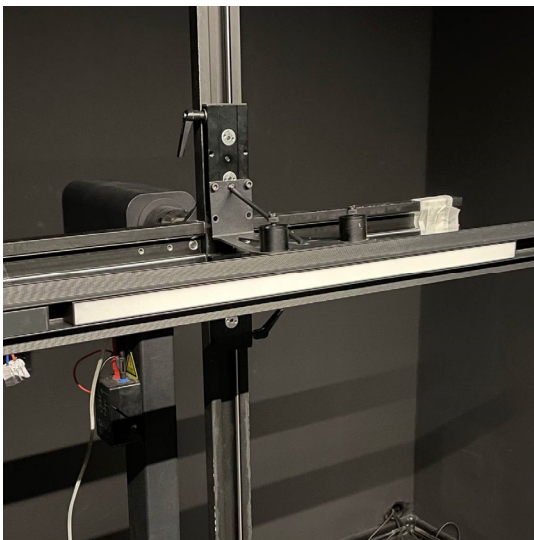
Product Info

Luminaire Category : **MagLight**Luminaire : **Line 600мм 4000K**Lamp Category : **MagLight**Lamp : **Line 600мм 4000K**Manufacturer : **Selecta**Submitter : **Gubarev S. S.**Nuber of Lamps : **1**Lumens per Lamp : **0 lm**Luminous Length : **600 mm**Luminous Width : **22 mm**Luminous Height : **43 mm**

Electric Parameters

Voltage : **219.90 V** Current : **0.1970 A** Power : **19.76 W** Power Factor : **0.454** Frequency : **49.98 Hz**

Photometric Parameters

CIE Class : **Direct**Measurement Flux : **1493.0 lm**Upward Ratio : **0.00 %**Maximum Intensity : **365.68 cd/klm**Central Intensity : **365.25 cd/klm**Luminaire Efficacy Rating (LER) : **76**Beam Angle (C0-C180,C90-C270) : **112.3 °, 106.8 °**Field Angle (C0-C180,C90-C270) : **164.0 °, 156.5 °**Total Rated Lamp Lumens : **1493.0 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C315° γ1°**S/MH(C0-C180,C90-C270) : **1.25, 1.22**Energy Efficiency Class : **F (EU 2019/2015 η_{TM}:89lm/W)**Beam Angle (C45-C225,C135-C315) : **108.9 °, 108.9 °**Field Angle (C45-C225,C135-C315) : **158.5 °, 158.7 °**

Average Beam Angle (50%): 109.2°

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.

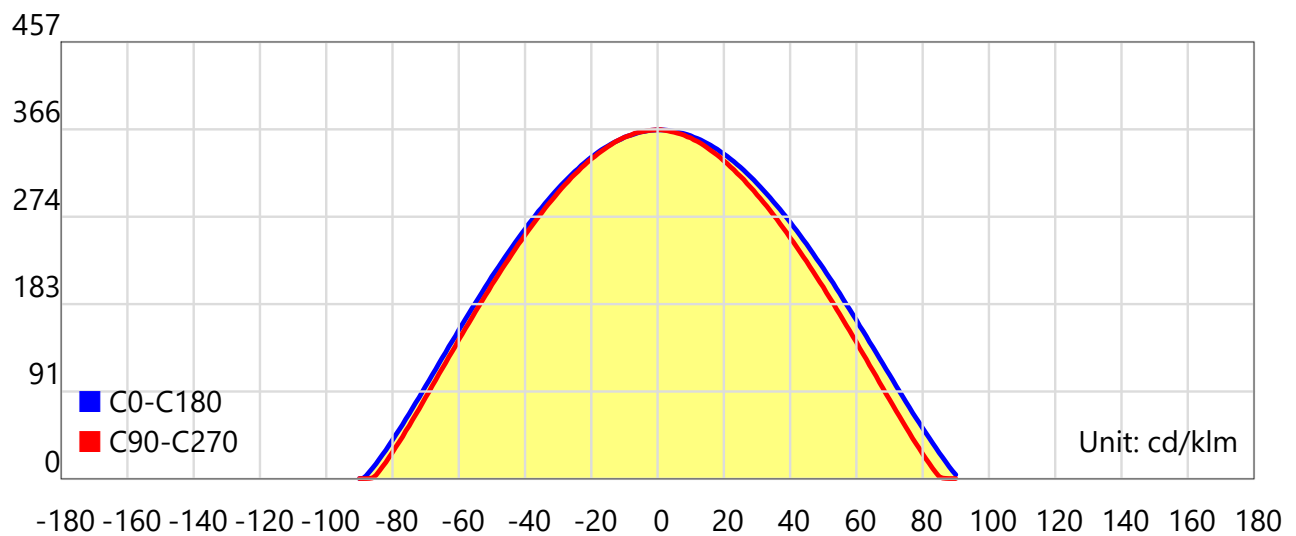
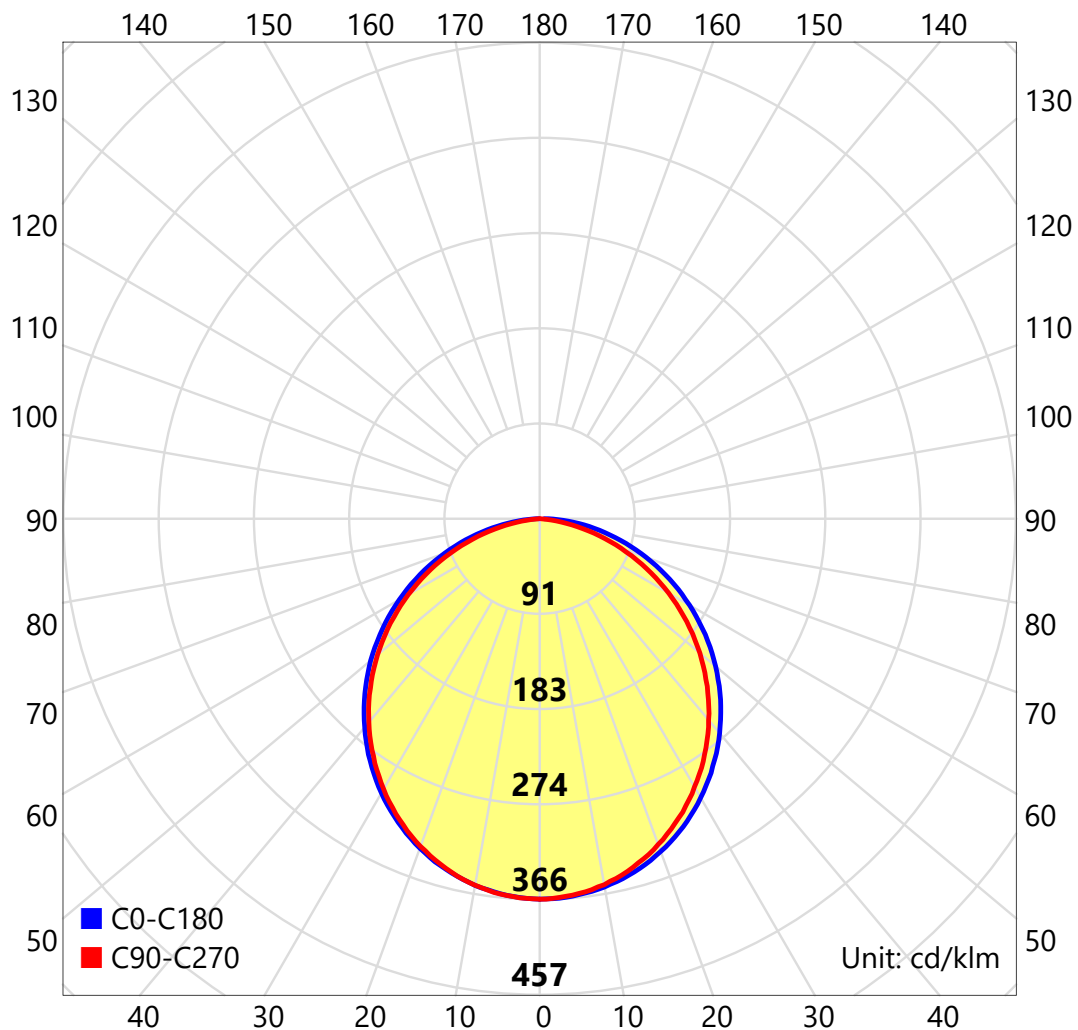
Review By :

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Light Distribution Curve



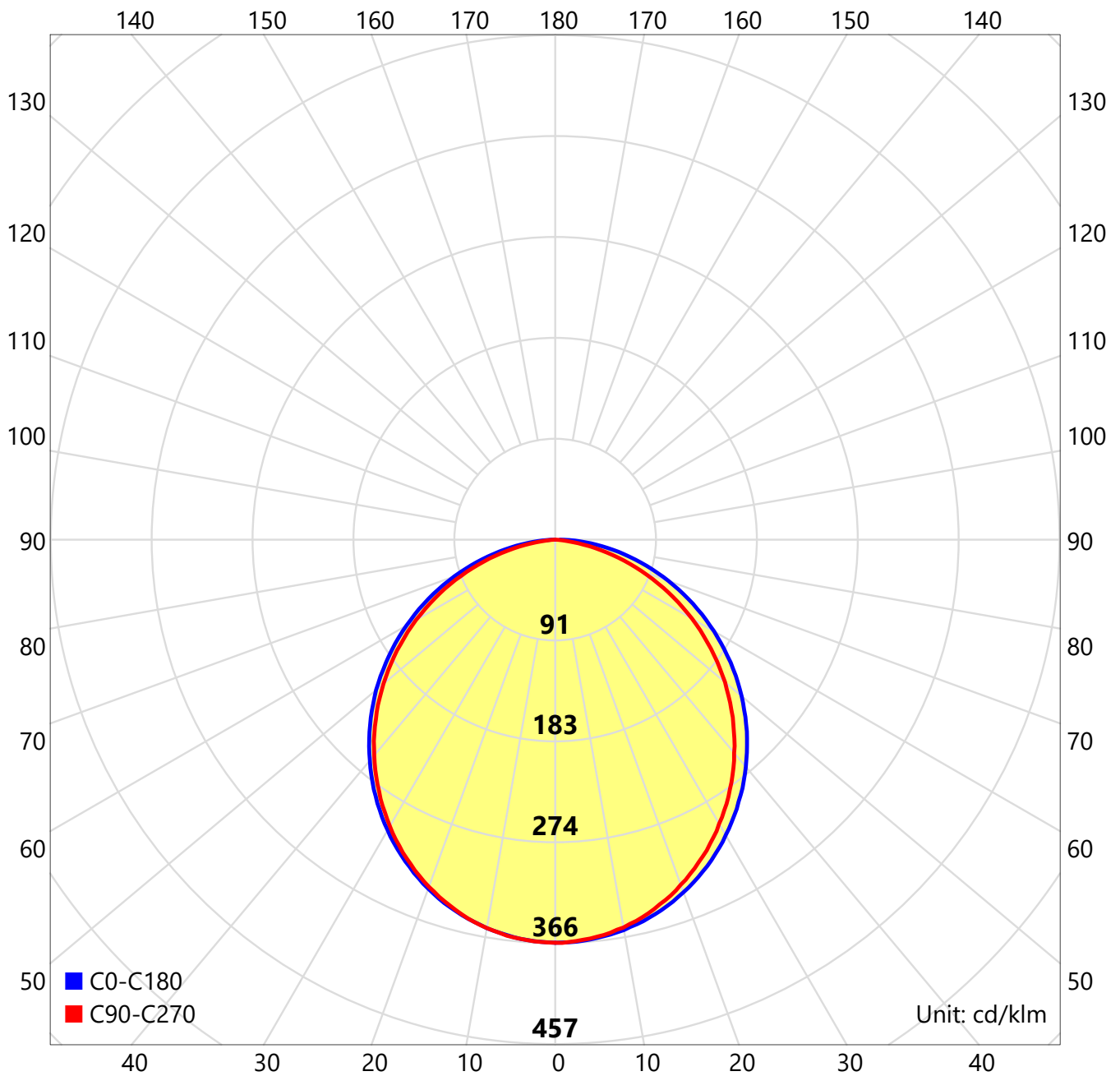
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



Line 600mm 4000K/MagLight

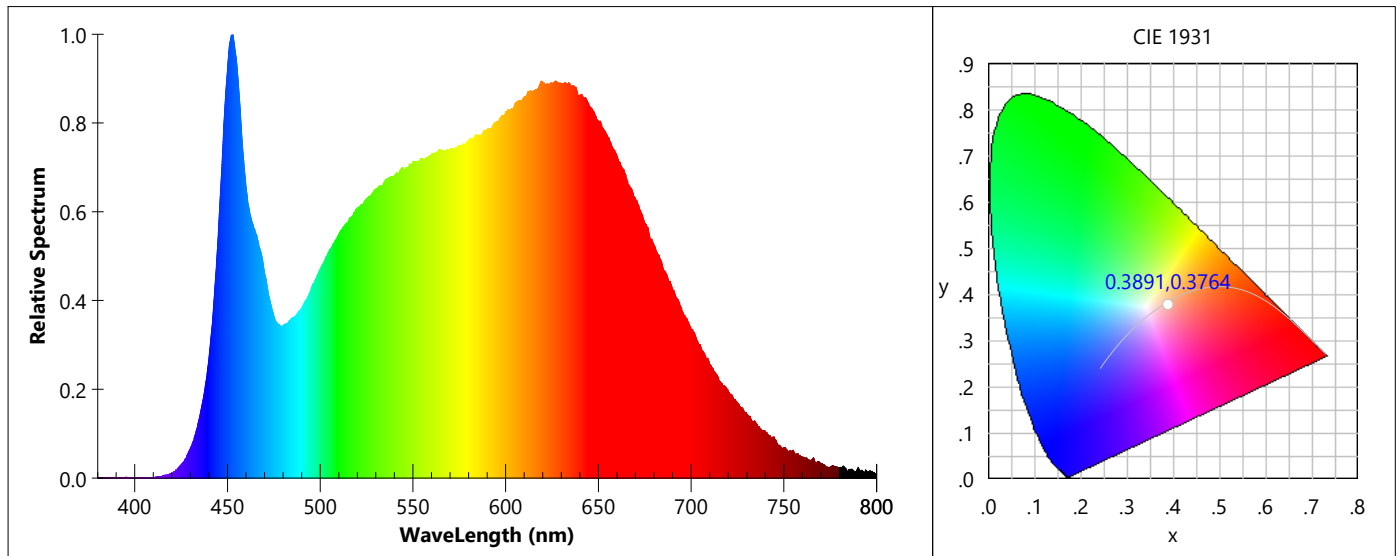
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Color Properties



Colorimetric

CIE(x,y): 0.3891,0.3764

CIE(u,v): 0.2310,0.3351

CIE(u',v'): 0.2310,0.5027

CCT: 3767 K (Duv=-0.002584)

Dominant Wavelength: 581.3 nm

Color Purity: 0.297

Peak Wavelength: 452.6 nm

Half Width: 24.3 nm

Color Ratio: R:0.212, G:0.747, B:0.041

Color Render Index: Ra: 96.5

R1: 98	R2: 99	R3: 96	R4: 97	R5: 96	R6: 95	R7: 97	R8: 94
R9: 87	R10: 95	R11: 99	R12: 74	R13: 99	R14: 97	R15: 97	

Color Quality Scale: Qa: 93.8 , Qf: 93.0 , Qp: 95.4 , Qg: 100.6

Q1: 94	Q2: 99	Q3: 88	Q4: 87	Q5: 92	Q6: 95	Q7: 95	Q8: 96
Q9: 98	Q10: 96	Q11: 95	Q12: 96	Q13: 97	Q14: 96	Q15: 96	

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

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 24.203 umol/s
 Photosynthetic Active Radiant Flux (Фe): 5.047 W
 Photons Flux (400~500nm): 3.750 umol/s
 Photons Flux (600~700nm): 11.298 umol/s
 Photons Flux (PFuv 280~400nm): 0.001 umol/s
 Radiant Flux (400~500nm): 0.967 W
 Radiant Flux (600~700nm): 2.100 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 21.485 umol/s
 YPF (500~600nm): 7.975 umol/s
 YPF (700~800nm): 0.392 umol/s
 Radiant Flux (Chl-A): 0.416 W

Photosynthetic Photon Efficacy (Kp): 1.225 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.255
 Photons Flux (500~600nm): 9.155 umol/s
 Photons Flux (PFfr 700~800nm): 1.828 umol/s
 Photons Flux (PF_PBAR): 26.033 umol/s
 Radiant Flux (500~600nm): 1.980 W
 Radiant Flux (700~800nm): 0.301 W
 R/B: 2.2 R/FR: 7.0
 YPF (400~500nm): 2.703 umol/s
 YPF (600~700nm): 10.415 umol/s
 YPF (320~400nm): 0.001 umol/s
 Radiant Flux (Chl-B): 0.669 W

Test Type : Type C

Test Distance : 7.922 m

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Temperature : 21.0°C Humidity : 22.0%

Test Lab :

Test By : Gubarev S. S.

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