

Report No. : 191

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SELECTA Goniophotometer Test Report

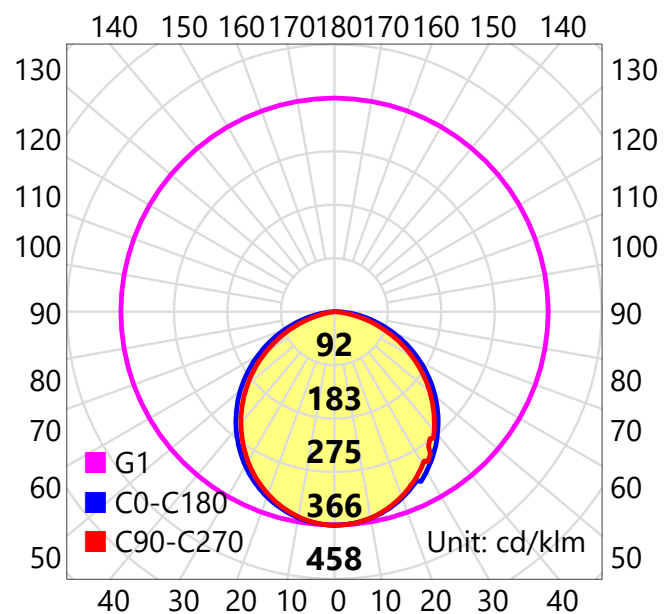
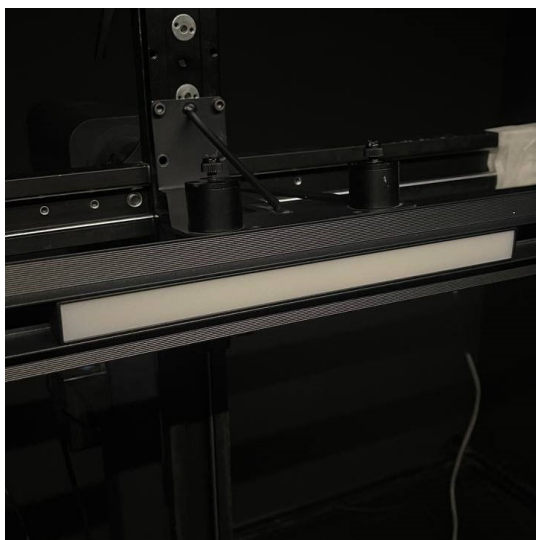
Product Info

Luminaire Category : **MagLight**Luminaire : **LINE 300мм 6000K 48v**Lamp Category : **MagLight**Lamp : **LINE 300мм 6000K 48v**Manufacturer : **Selecta**Submitter : **Gubarev S. S.**Nuber of Lamps : **1**Lumens per Lamp : **0 lm**Luminous Length : **300 mm**Luminous Width : **22 mm**Luminous Height : **43 mm**

Electric Parameters

Voltage : **219.80 V** Current : **0.1320 A** Power : **12.54 W** Power Factor : **0.432** Frequency : **49.96 Hz**

Photometric Parameters

CIE Class : **Direct**Measurement Flux : **639.6 lm**Upward Ratio : **0.00 %**Maximum Intensity : **366.39 cd/klm**Central Intensity : **366.07 cd/klm**Luminaire Efficacy Rating (LER) : **51**Beam Angle (C0-C180,C90-C270) : **112.4 °, 107.2 °**Field Angle (C0-C180,C90-C270) : **161.9 °, 154.4 °**Total Rated Lamp Lumens : **639.6 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C90° γ1°**S/MH(C0-C180,C90-C270) : **1.26, 1.22**Energy Efficiency Class : **G (EU 2019/2015 η_{TM}:48lm/W)**Beam Angle (C45-C225,C135-C315) : **109.4 °, 109.3 °**Field Angle (C45-C225,C135-C315) : **158.2 °, 158.4 °**

Average Beam Angle (50%): 109.6°

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.

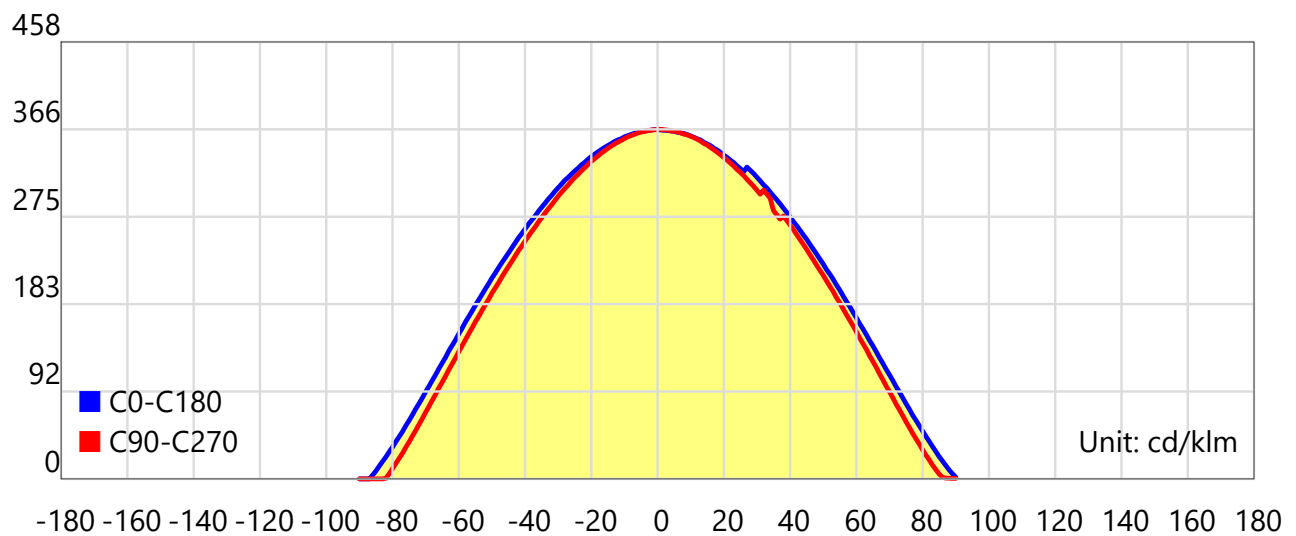
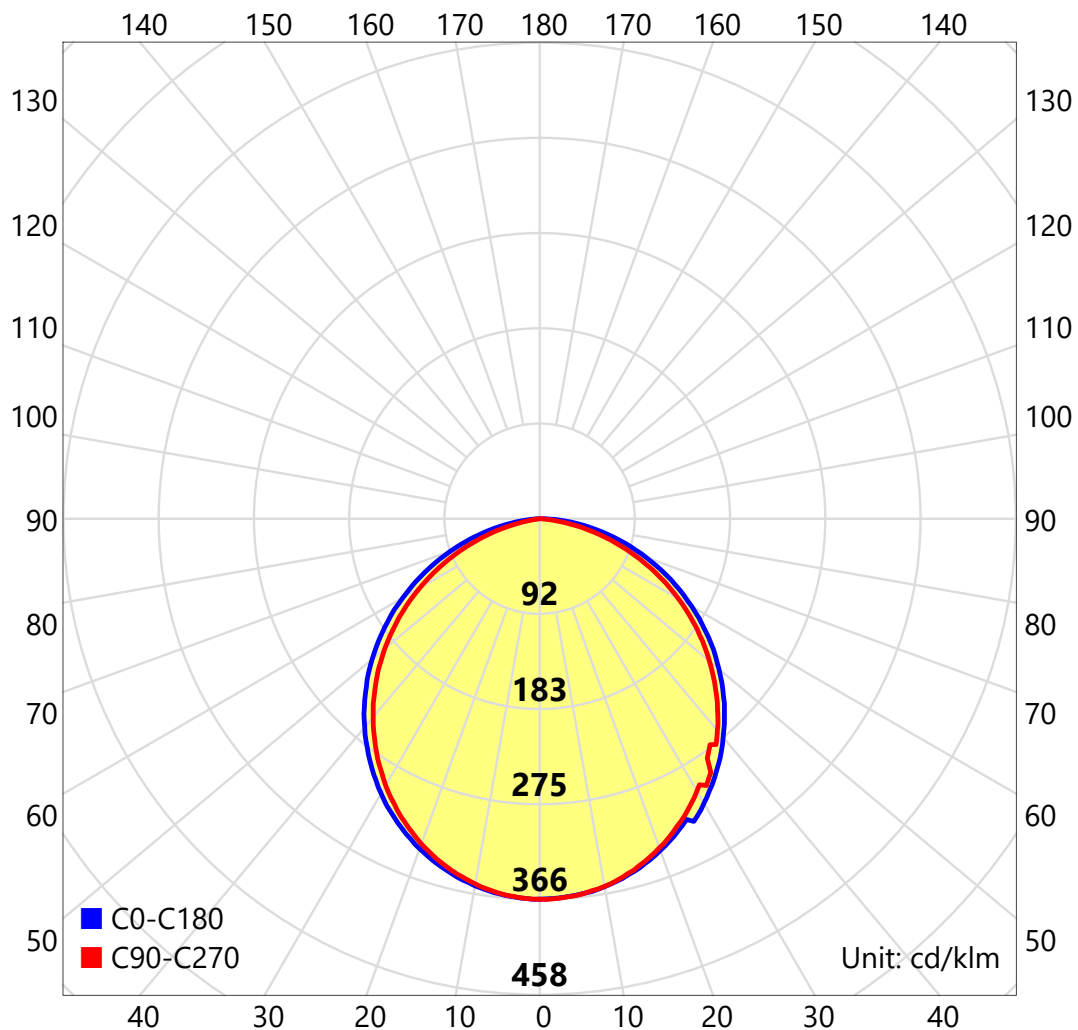
Review By :

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Light Distribution Curve



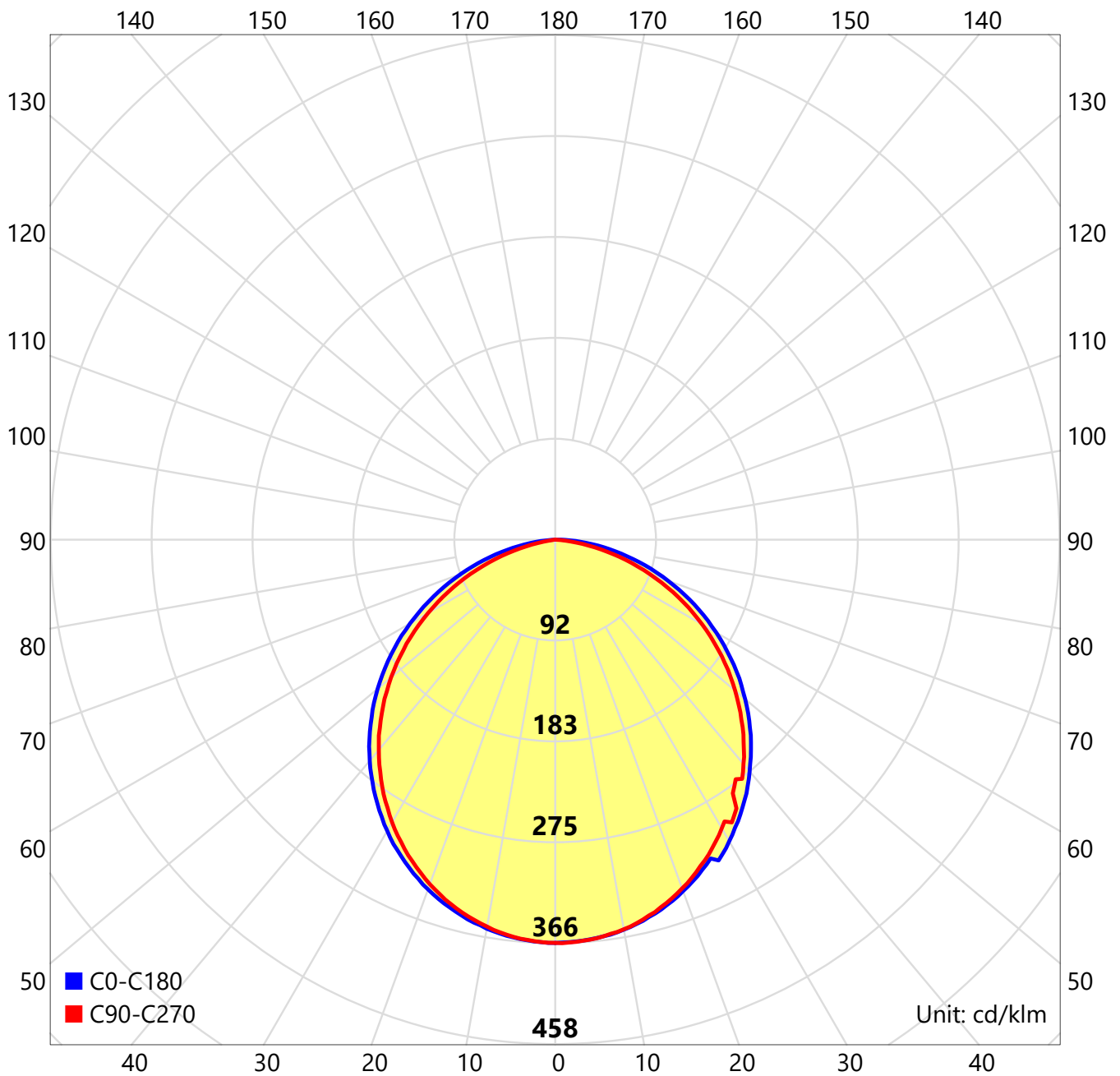
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



LINE 300mm 6000K 48v/MagLight

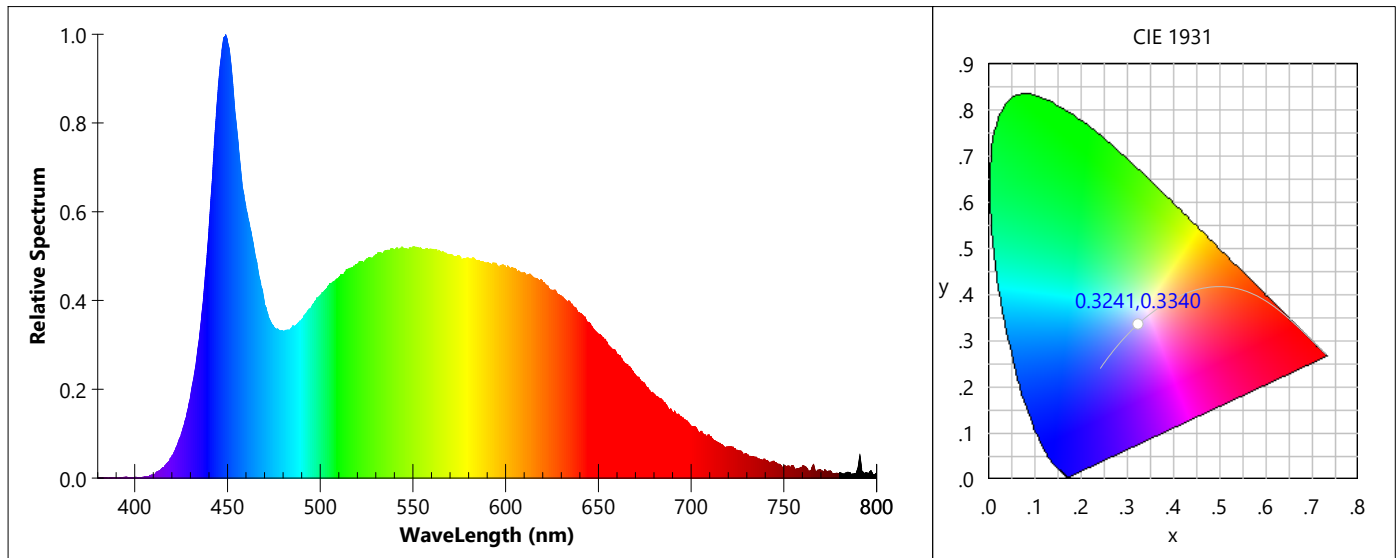
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Color Properties



Colorimetric

CIE(x,y): 0.3241,0.3340

CIE(u,v): 0.2038,0.3151

CIE(u',v'): 0.2038,0.4726

CCT: 5898 K (Duv=0.000190)

Dominant Wavelength: 492.6 nm

Color Purity: 0.031

Peak Wavelength: 448.8 nm

Half Width: 26.1 nm

Color Ratio: R:0.156, G:0.786, B:0.058

Color Render Index: Ra: 91.5

R1: 92	R2: 94	R3: 93	R4: 93	R5: 92	R6: 89	R7: 94	R8: 87
R9: 60	R10: 83	R11: 94	R12: 72	R13: 93	R14: 96	R15: 91	

Color Quality Scale: Qa: 89.1 , Qf: 88.5 , Qp: 90.6 , Qg: 98.0

Q1: 93	Q2: 98	Q3: 83	Q4: 81	Q5: 88	Q6: 91	Q7: 93	Q8: 95
Q9: 96	Q10: 90	Q11: 88	Q12: 89	Q13: 90	Q14: 87	Q15: 89	

TM-30-18: Rf: 89 , Rg: 99

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 9.834 umol/s
 Photosynthetic Active Radiant Flux (Фe): 2.154 W
 Photons Flux (400~500nm): 2.576 umol/s
 Photons Flux (600~700nm): 3.121 umol/s
 Photons Flux (PFuv 280~400nm): 0.001 umol/s
 Radiant Flux (400~500nm): 0.670 W
 Radiant Flux (600~700nm): 0.584 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 8.435 umol/s
 YPF (500~600nm): 3.563 umol/s
 YPF (700~800nm): 0.089 umol/s
 Radiant Flux (Chl-A): 0.160 W

Photosynthetic Photon Efficacy (Kp): 0.784 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.172
 Photons Flux (500~600nm): 4.137 umol/s
 Photons Flux (PFfr 700~800nm): 0.455 umol/s
 Photons Flux (PF_PBAR): 10.290 umol/s
 Radiant Flux (500~600nm): 0.900 W
 Radiant Flux (700~800nm): 0.075 W
 R/B: 0.9 R/FR: 7.8
 YPF (400~500nm): 1.869 umol/s
 YPF (600~700nm): 2.914 umol/s
 YPF (320~400nm): 0.001 umol/s
 Radiant Flux (Chl-B): 0.367 W

Test Type : Type C

Test Distance : 7.922 m

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Test Device : Lisun LSG-1800A

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Test Lab :

Test By : Gubarev S. S.

Review By :