

Report No. : 205

Test Time : 2025-02-08 09:25:19

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SELECTA Goniophotometer Test Report

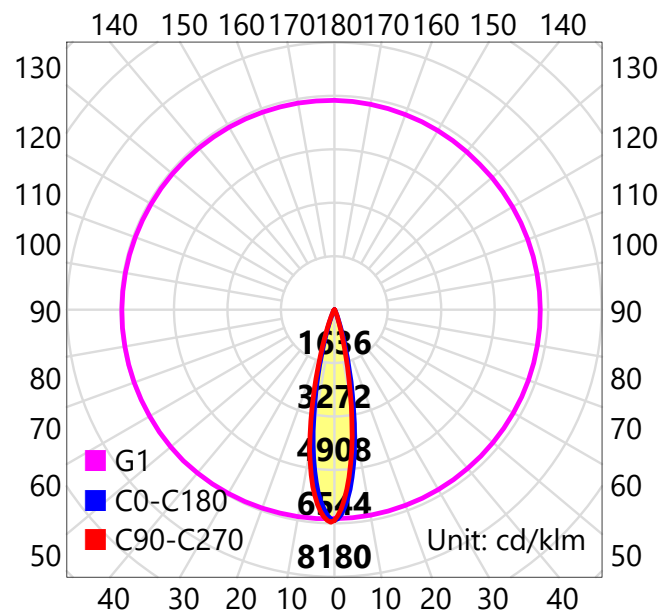
Product Info

Luminaire Category : **MagLight**Luminaire : **Boll d100мм 4000K**Lamp Category : **MagLight**Lamp : **Boll d100мм 4000K**Manufacturer : **Selecta**Submitter : **Gubarev S. S.**Nuber of Lamps : **1**Lumens per Lamp : **0 lm**Luminous Length : **100 mm**Luminous Width : **100 mm**Luminous Height : **100 mm**

Electric Parameters

Voltage : **220.00 V** Current : **0.1020 A** Power : **9.34 W** Power Factor : **0.415** Frequency : **49.96 Hz**

Photometric Parameters

CIE Class : **Direct**Measurement Flux : **686.4 lm**Upward Ratio : **0.00 %**Maximum Intensity : **6543.92 cd/klm**Central Intensity : **6454.82 cd/klm**Luminaire Efficacy Rating (LER) : **73**Beam Angle (C0-C180,C90-C270) : **21.9 °, 21.9 °**Field Angle (C0-C180,C90-C270) : **38.6 °, 38.4 °**Total Rated Lamp Lumens : **686.4 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C315° γ1°**S/MH(C0-C180,C90-C270) : **0.37, 0.38**Energy Efficiency Class : **F (EU 2019/2015 η_{TM}:86lm/W)**Beam Angle (C45-C225,C135-C315) : **21.3 °, 21.1 °**Field Angle (C45-C225,C135-C315) : **36.3 °, 36.0 °**

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.

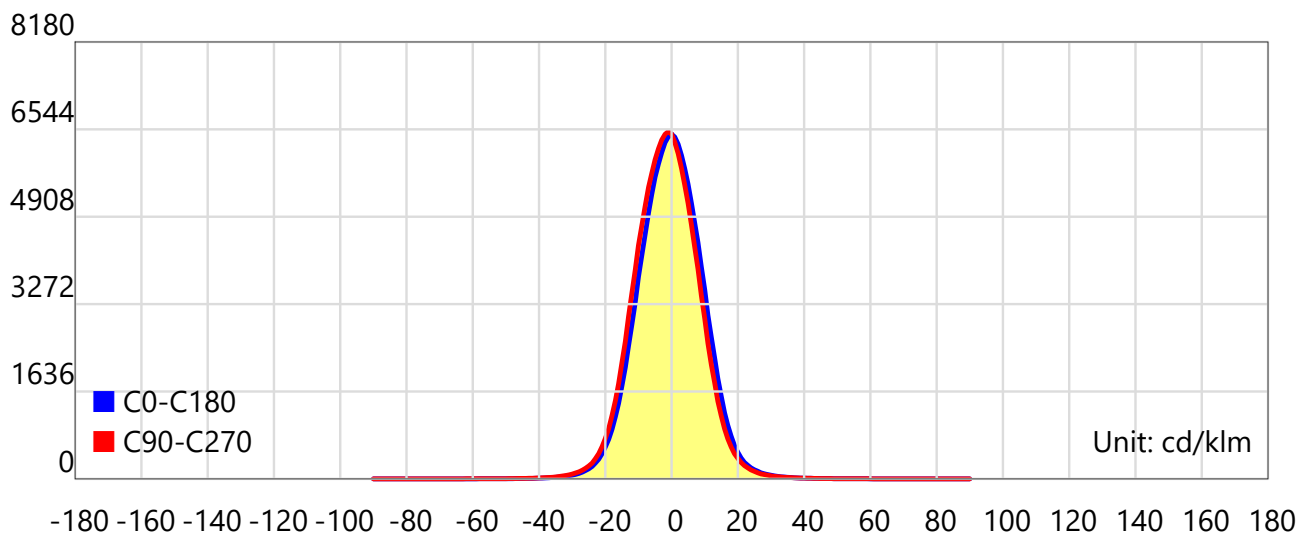
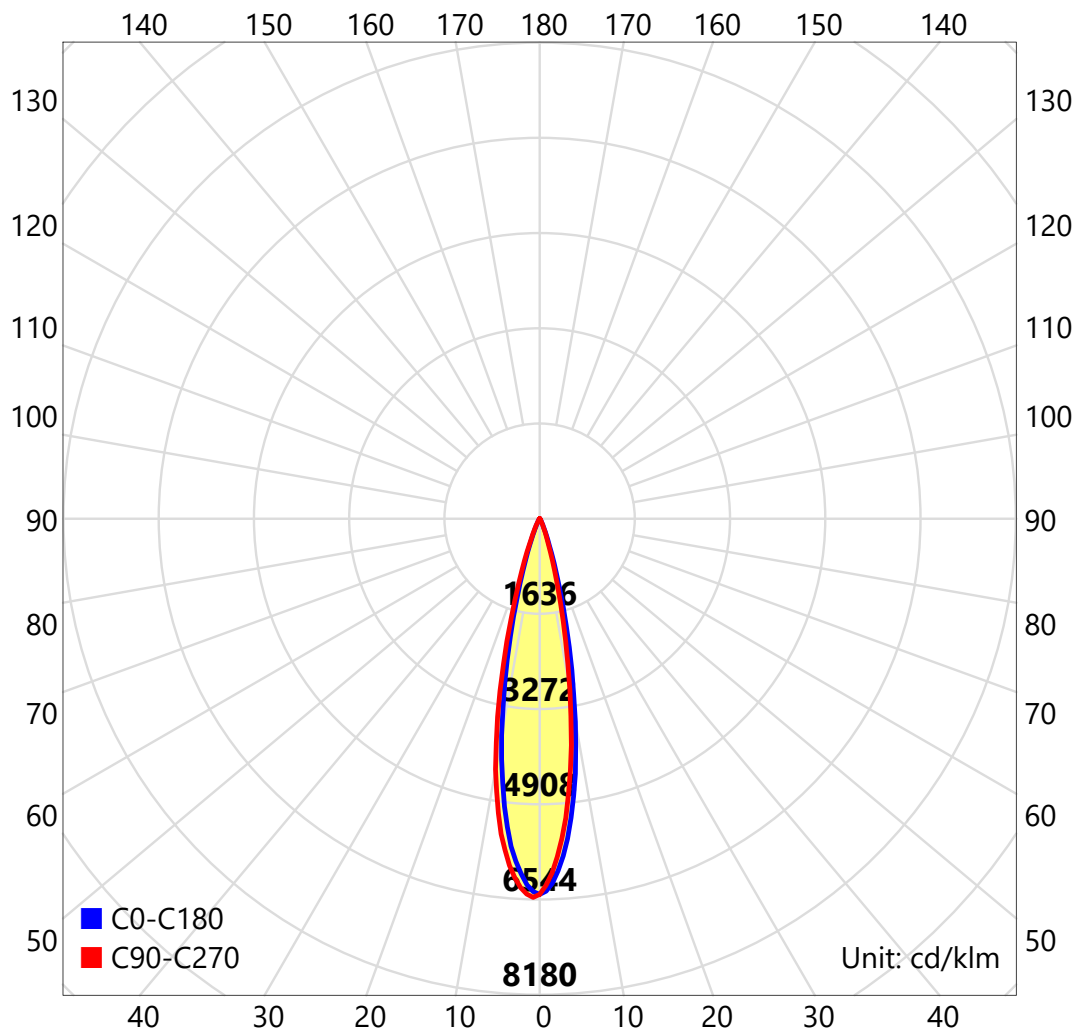
Review By :

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Light Distribution Curve



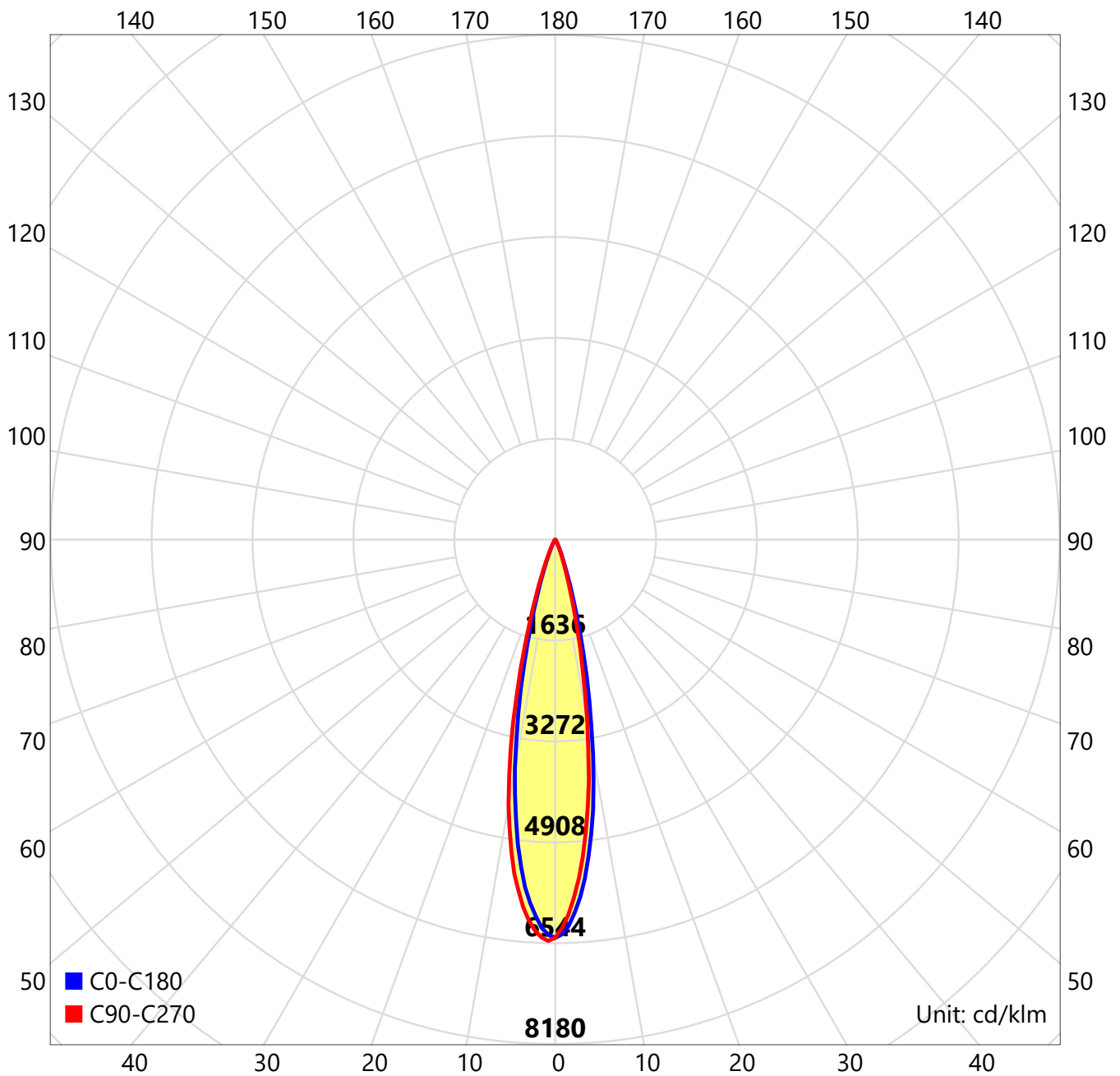
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



Boll d100mm 4000K/MagLight

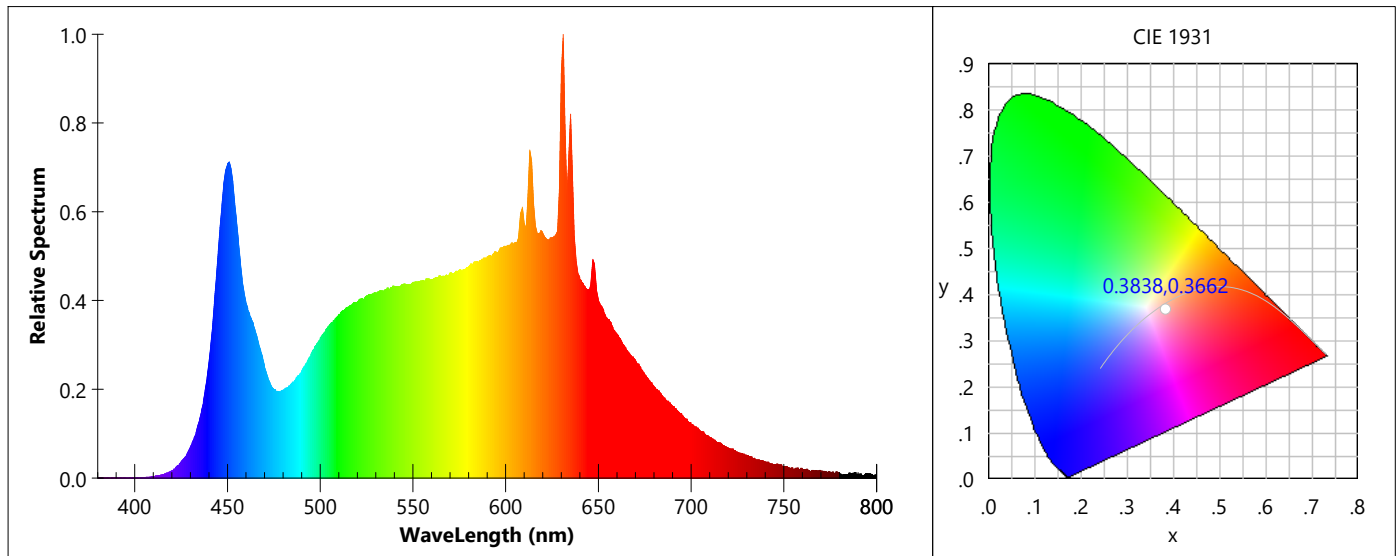
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Color Properties



Colorimetric

CIE(x,y): 0.3838,0.3662

CIE(u,v): 0.2317,0.3316

CIE(u',v'): 0.2317,0.4973

CCT: 3823 K (Duv=-0.006000)

Dominant Wavelength: 583.4 nm

Color Purity: 0.251

Peak Wavelength: 630.8 nm

Half Width: 45.8 nm

Color Ratio: R:0.217, G:0.742, B:0.041

Color Render Index: Ra: 96.4

R1: 98	R2: 98	R3: 96	R4: 97	R5: 99	R6: 95	R7: 95	R8: 94
R9: 85	R10: 96	R11: 98	R12: 80	R13: 98	R14: 97	R15: 99	

Color Quality Scale: Qa: 94.2, Qf: 91.9, Qp: 98.3, Qg: 104.2

Q1: 97	Q2: 99	Q3: 87	Q4: 90	Q5: 97	Q6: 95	Q7: 93	Q8: 97
Q9: 97	Q10: 95	Q11: 95	Q12: 96	Q13: 96	Q14: 96	Q15: 97	

TM-30-18: Rf: 92, Rg: 103

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 10.598 umol/s
 Photosynthetic Active Radiant Flux (Фe): 2.241 W
 Photons Flux (400~500nm): 1.839 umol/s
 Photons Flux (600~700nm): 4.559 umol/s
 Photons Flux (PFuv 280~400nm): 0.001 umol/s
 Radiant Flux (400~500nm): 0.476 W
 Radiant Flux (600~700nm): 0.855 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 9.377 umol/s
 YPF (500~600nm): 3.651 umol/s
 YPF (700~800nm): 0.101 umol/s
 Radiant Flux (Chl-A): 0.168 W

Photosynthetic Photon Efficacy (Kp): 1.135 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.240
 Photons Flux (500~600nm): 4.200 umol/s
 Photons Flux (PFfr 700~800nm): 0.486 umol/s
 Photons Flux (PF_PBAR): 11.085 umol/s
 Radiant Flux (500~600nm): 0.909 W
 Radiant Flux (700~800nm): 0.080 W
 R/B: 1.8 R/FR: 10.7
 YPF (400~500nm): 1.332 umol/s
 YPF (600~700nm): 4.293 umol/s
 YPF (320~400nm): 0.000 umol/s
 Radiant Flux (Chl-B): 0.322 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 :