

Report No. : 202

Test Time : 2025-02-08 09:55:37

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SELECTA Goniophotometer Test Report

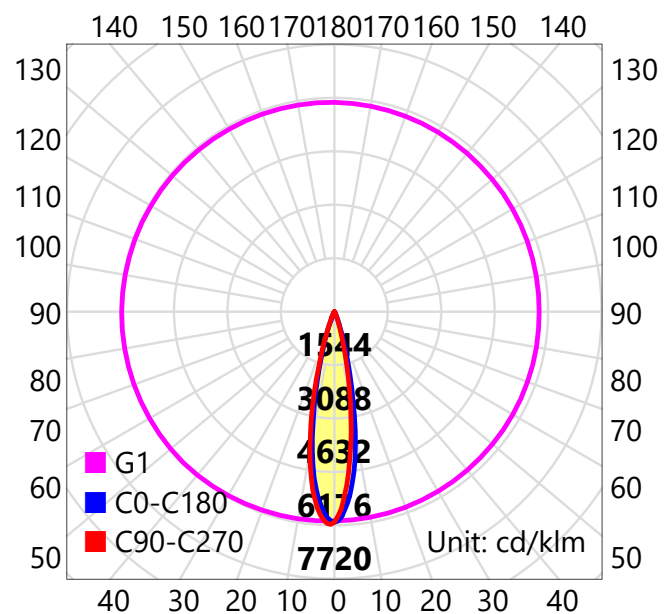
Product Info

Luminaire Category : **MagLight**Luminaire : **Boll d100мм 2700K**Lamp Category : **MagLight**Lamp : **Boll d100мм 2700K**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 : **219.90 V** Current : **0.1040 A** Power : **9.51 W** Power Factor : **0.416** Frequency : **49.96 Hz**

Photometric Parameters

CIE Class : **Direct**Measurement Flux : **608.4 lm**Upward Ratio : **0.00 %**Maximum Intensity : **6176.10 cd/klm**Central Intensity : **6082.15 cd/klm**Luminaire Efficacy Rating (LER) : **64**Beam Angle (C0-C180,C90-C270) : **22.4 °, 21.4 °**Field Angle (C0-C180,C90-C270) : **39.0 °, 38.0 °**Total Rated Lamp Lumens : **608.4 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C315° γ1°**S/MH(C0-C180,C90-C270) : **0.38, 0.37**Energy Efficiency Class : **G (EU 2019/2015 η_{TM}:75lm/W)**Beam Angle (C45-C225,C135-C315) : **20.9 °, 22.3 °**Field Angle (C45-C225,C135-C315) : **37.6 °, 38.5 °**

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.

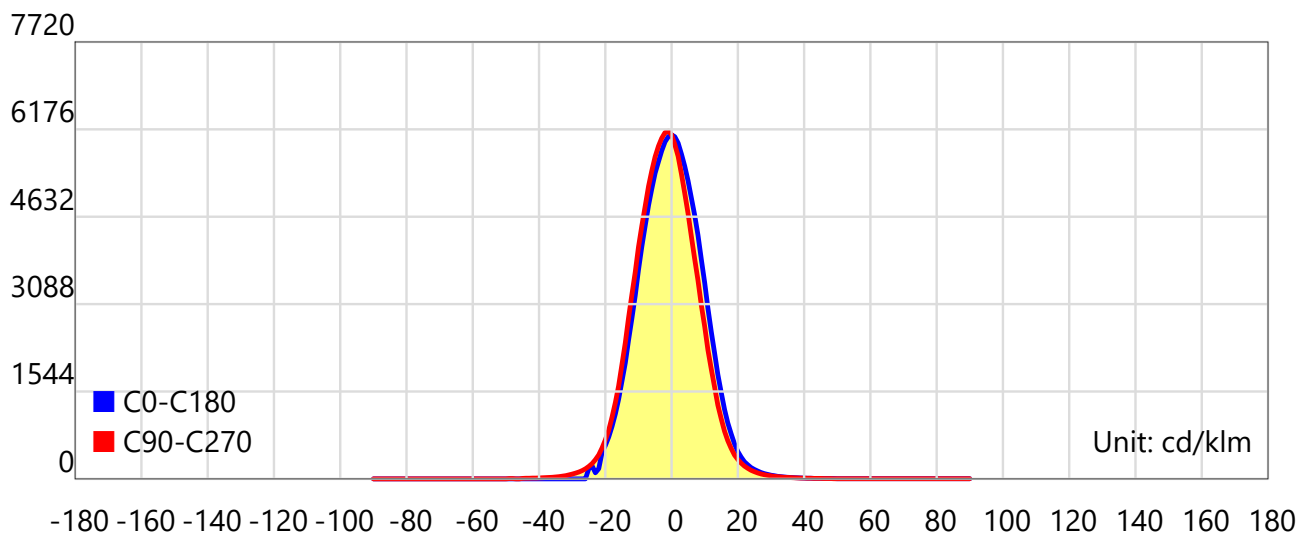
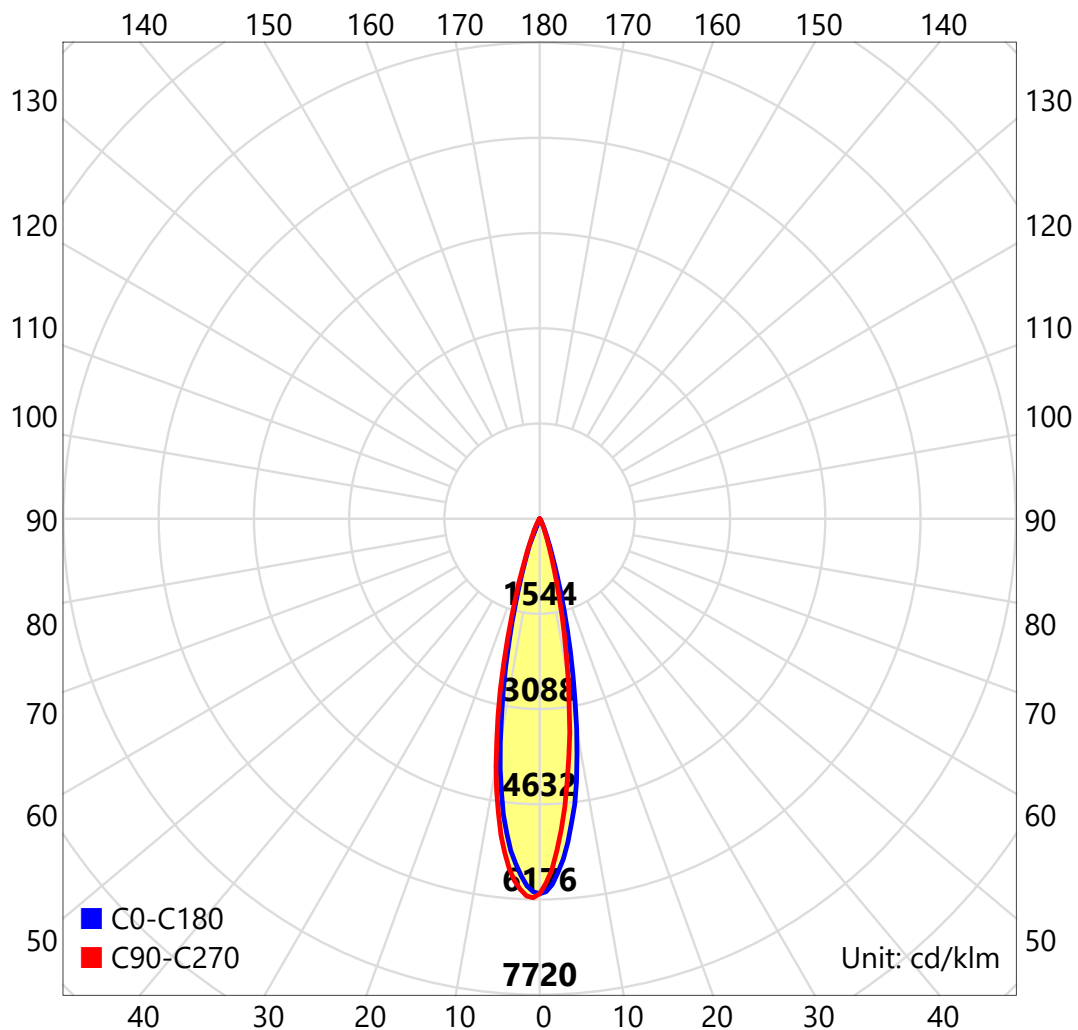
Review By :

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Light Distribution Curve



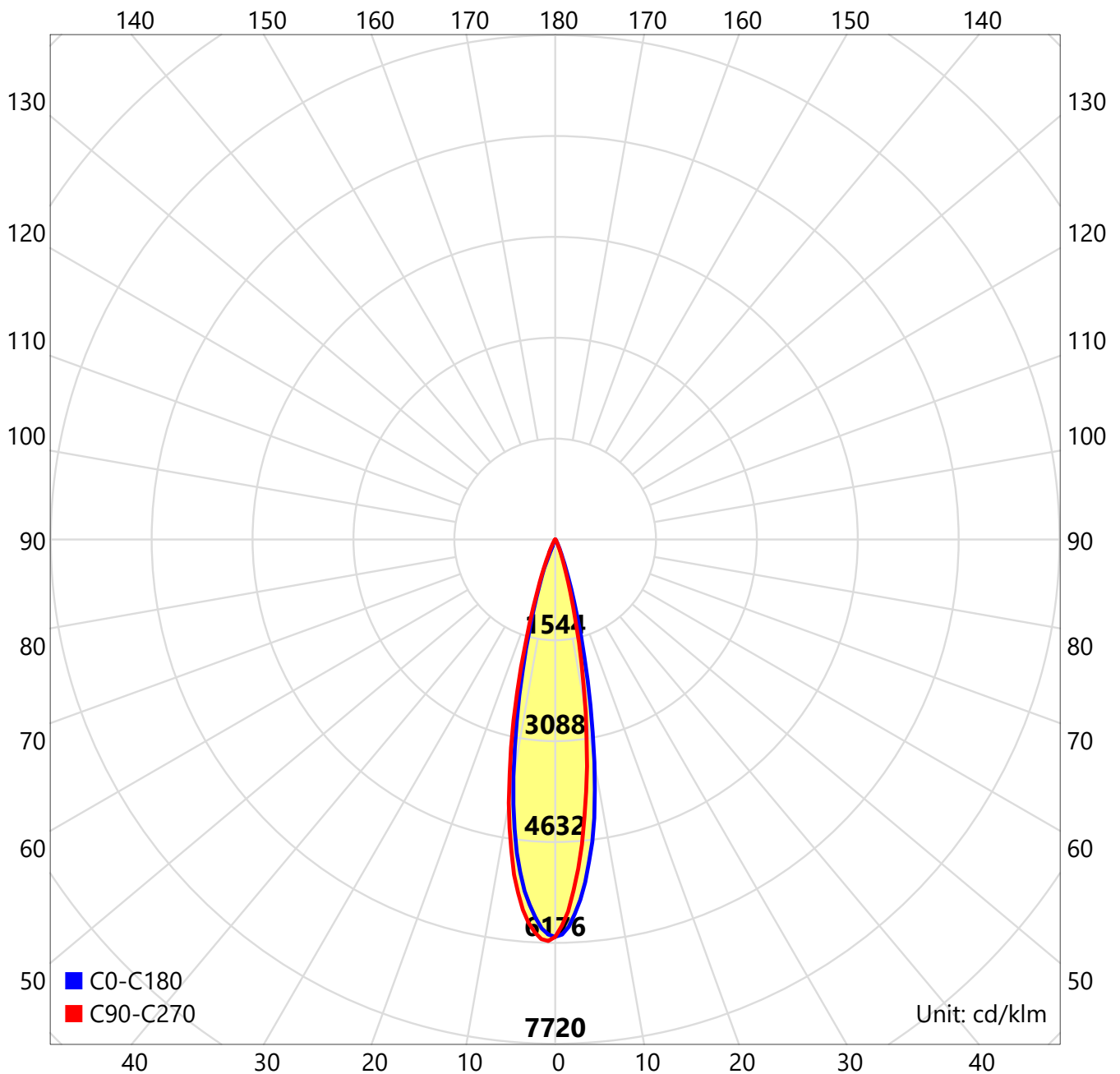
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



Boll d100mm 2700K/MagLight

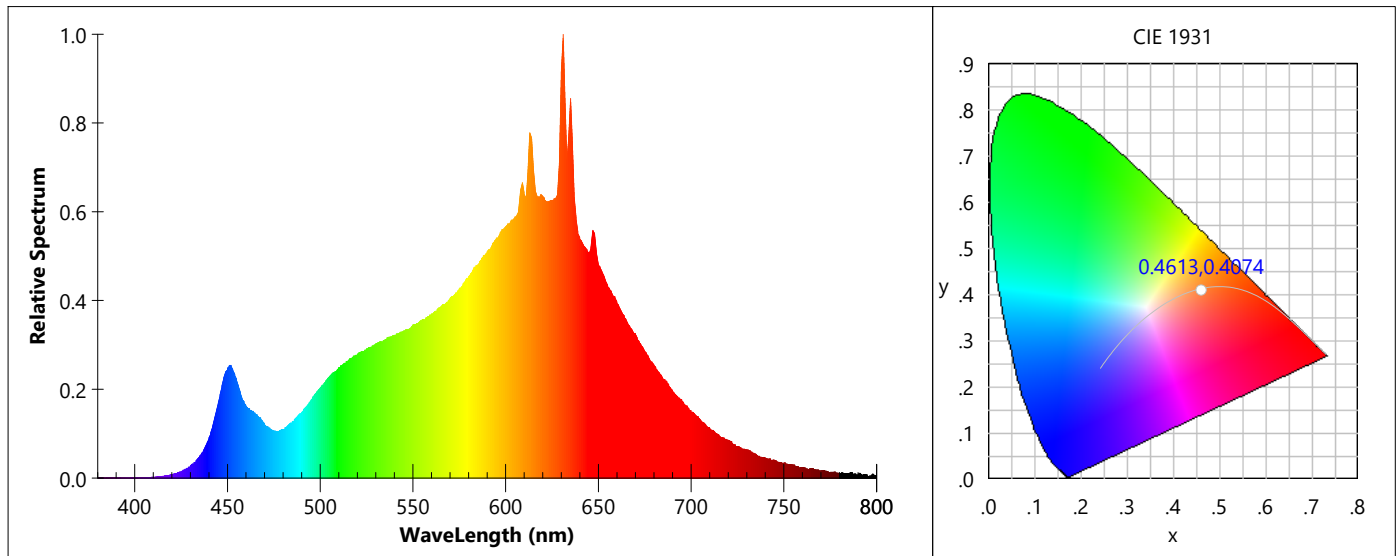
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Color Properties



Colorimetric

CIE(x,y): 0.4613,0.4074

CIE(u,v): 0.2649,0.3509

CIE(u',v'): 0.2649,0.5263

CCT: 2655 K (Duv=-0.001304)

Dominant Wavelength: 584.9 nm

Color Purity: 0.607

Peak Wavelength: 630.9 nm

Half Width: 61.4 nm

Color Ratio: R:0.275, G:0.700, B:0.025

Color Render Index: Ra: 94.5

R1: 96	R2: 99	R3: 99	R4: 97	R5: 97	R6: 96	R7: 91	R8: 82
R9: 61	R10: 97	R11: 99	R12: 90	R13: 98	R14: 99	R15: 91	

Color Quality Scale: Qa: 91.8 , Qf: 90.9 , Qp: 96.6 , Qg: 97.8

Q1: 88	Q2: 93	Q3: 92	Q4: 93	Q5: 96	Q6: 93	Q7: 91	Q8: 92
Q9: 96	Q10: 95	Q11: 95	Q12: 94	Q13: 93	Q14: 89	Q15: 88	

TM-30-18: Rf: 93 , Rg: 100

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 9.616 umol/s
 Photosynthetic Active Radiant Flux (Фe): 1.955 W
 Photons Flux (400~500nm): 0.821 umol/s
 Photons Flux (600~700nm): 5.274 umol/s
 Photons Flux (PFuv 280~400nm): 0.000 umol/s
 Radiant Flux (400~500nm): 0.211 W
 Radiant Flux (600~700nm): 0.988 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 8.777 umol/s
 YPF (500~600nm): 3.111 umol/s
 YPF (700~800nm): 0.124 umol/s
 Radiant Flux (Chl-A): 0.166 W

Photosynthetic Photon Efficacy (Kp): 1.011 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.206
 Photons Flux (500~600nm): 3.520 umol/s
 Photons Flux (PFfr 700~800nm): 0.587 umol/s
 Photons Flux (PF_PBAR): 10.203 umol/s
 Radiant Flux (500~600nm): 0.756 W
 Radiant Flux (700~800nm): 0.097 W
 R/B: 4.7 R/FR: 10.2
 YPF (400~500nm): 0.590 umol/s
 YPF (600~700nm): 4.951 umol/s
 YPF (320~400nm): 0.000 umol/s
 Radiant Flux (Chl-B): 0.204 W

Test Type : Type C

Test Distance : 7.922 m

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Test Device : Lisun LSG-1800A

Temperature : 21.0°C Humidity : 22.0%

Test Lab :

Test By : Gubarev S. S.

Review By :