

Report No. : 204

Test Time : 2025-02-08 09:12:46

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SELECTA Goniophotometer Test Report

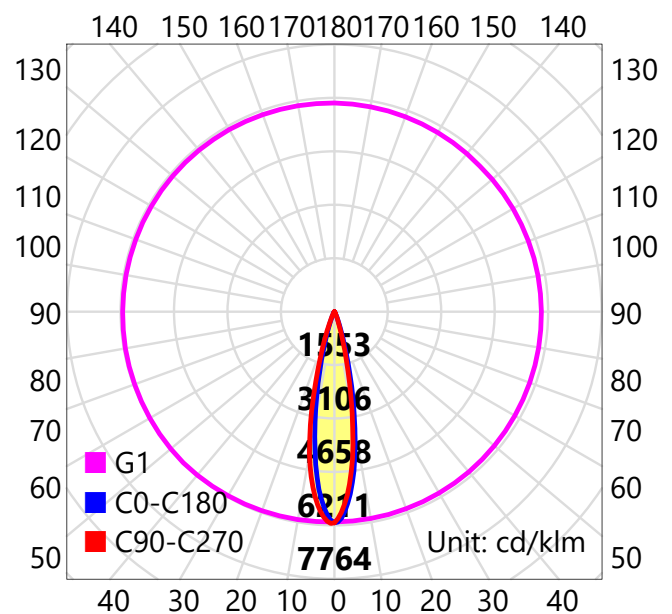
Product Info

Luminaire Category : **MagLight**Luminaire : **Boll d100мм 6500K**Lamp Category : **MagLight**Lamp : **Boll d100мм 6500K**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 : **0.1040 A** Power : **9.58 W** Power Factor : **0.417** Frequency : **49.99 Hz**

Photometric Parameters

CIE Class : **Direct**Measurement Flux : **771.2 lm**Upward Ratio : **0.00 %**Maximum Intensity : **6211.04 cd/klm**Central Intensity : **6134.87 cd/klm**Luminaire Efficacy Rating (LER) : **80**Beam Angle (C0-C180,C90-C270) : **21.4 °, 22.4 °**Field Angle (C0-C180,C90-C270) : **38.1 °, 38.8 °**Total Rated Lamp Lumens : **771.2 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C315° γ1°**S/MH(C0-C180,C90-C270) : **0.36, 0.38**Energy Efficiency Class : **F (EU 2019/2015 η_{TM}:94lm/W)**Beam Angle (C45-C225,C135-C315) : **22.3 °, 20.7 °**Field Angle (C45-C225,C135-C315) : **38.6 °, 37.3 °**

Average Beam Angle (50%): 21.7°

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.

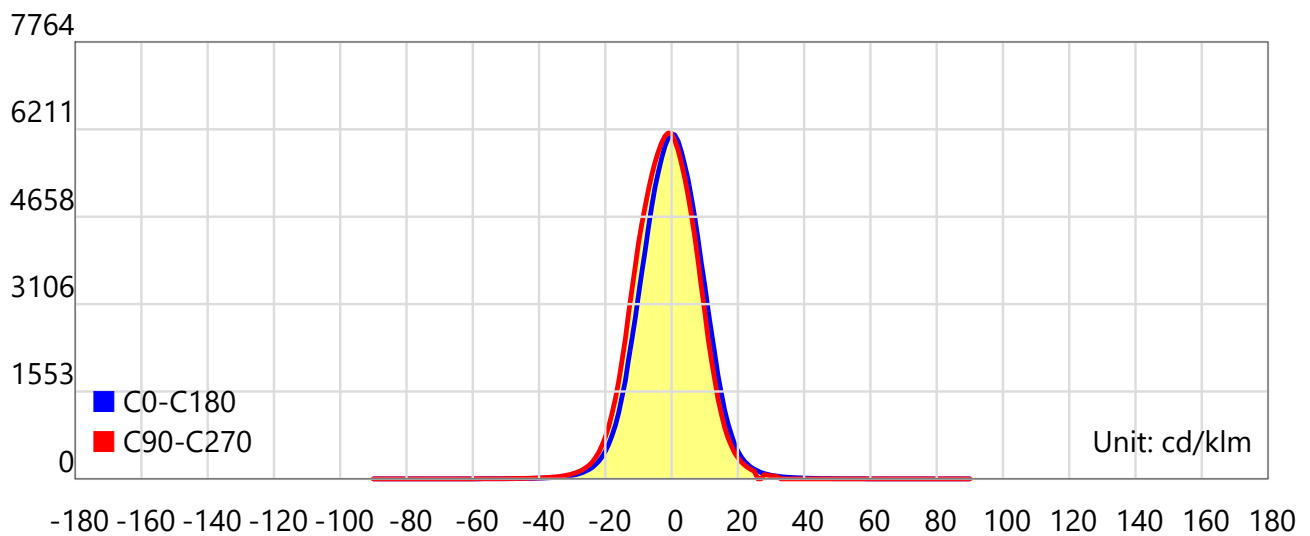
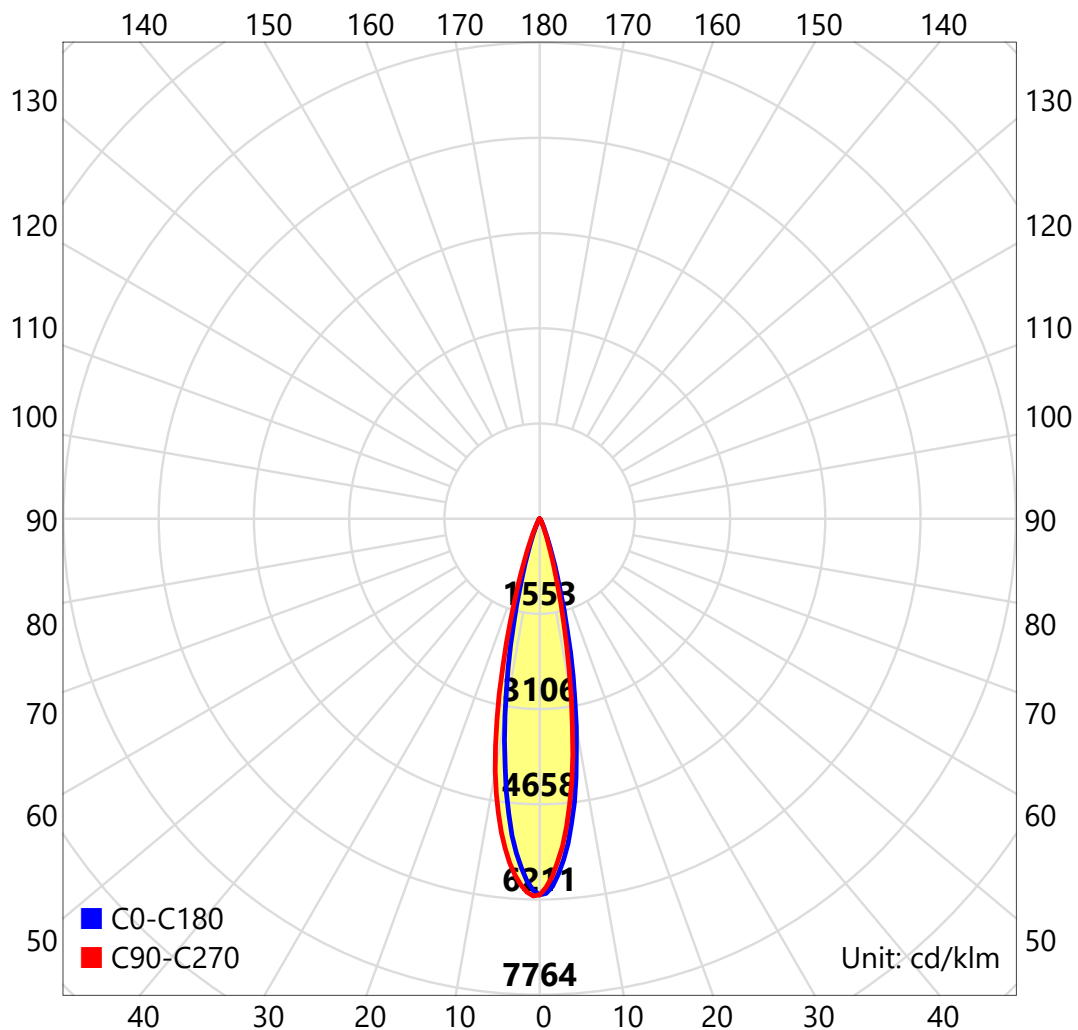
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Light Distribution Curve



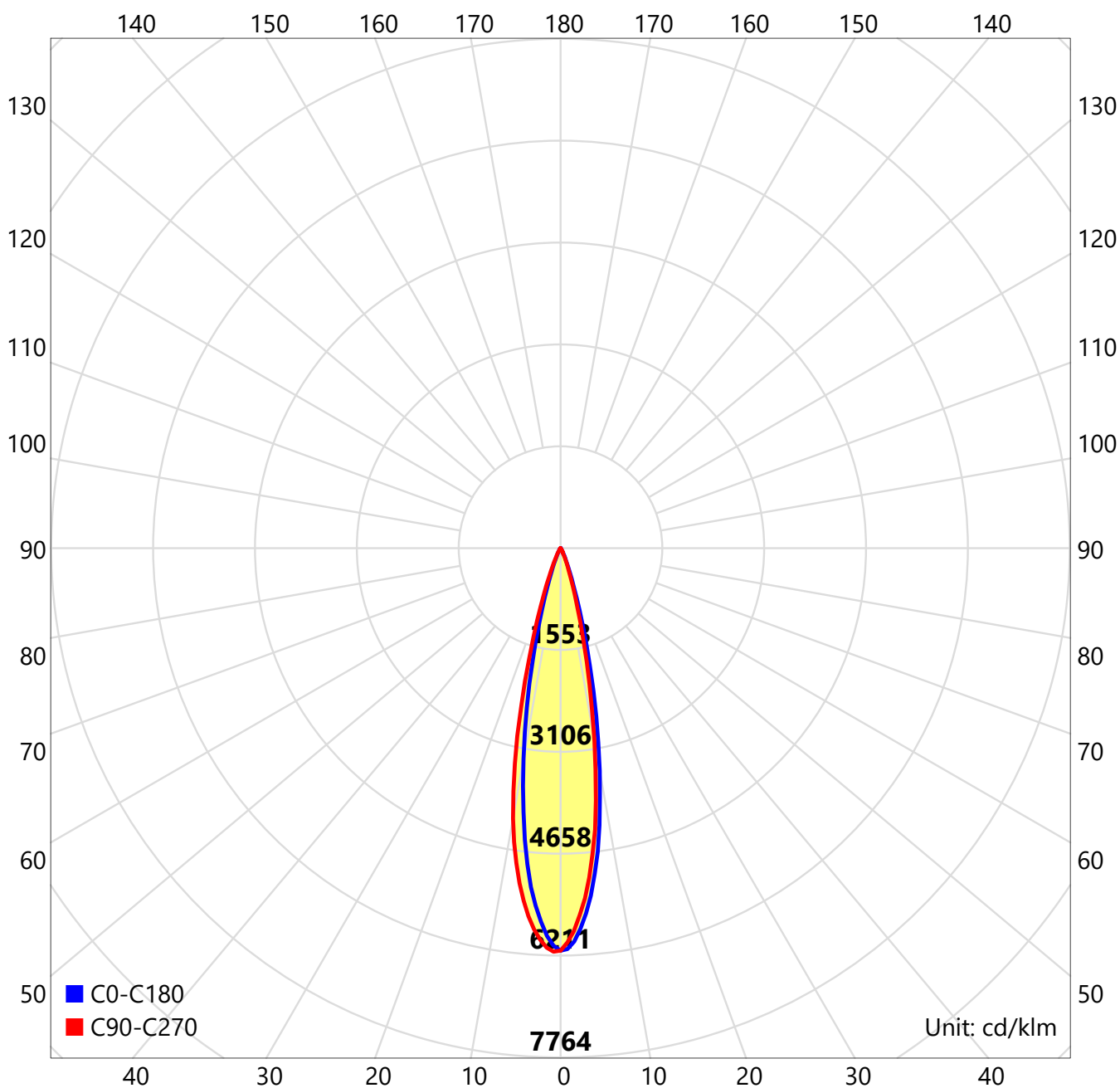
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



Boll d100mm 6500K/MagLight

$\eta=100\%$

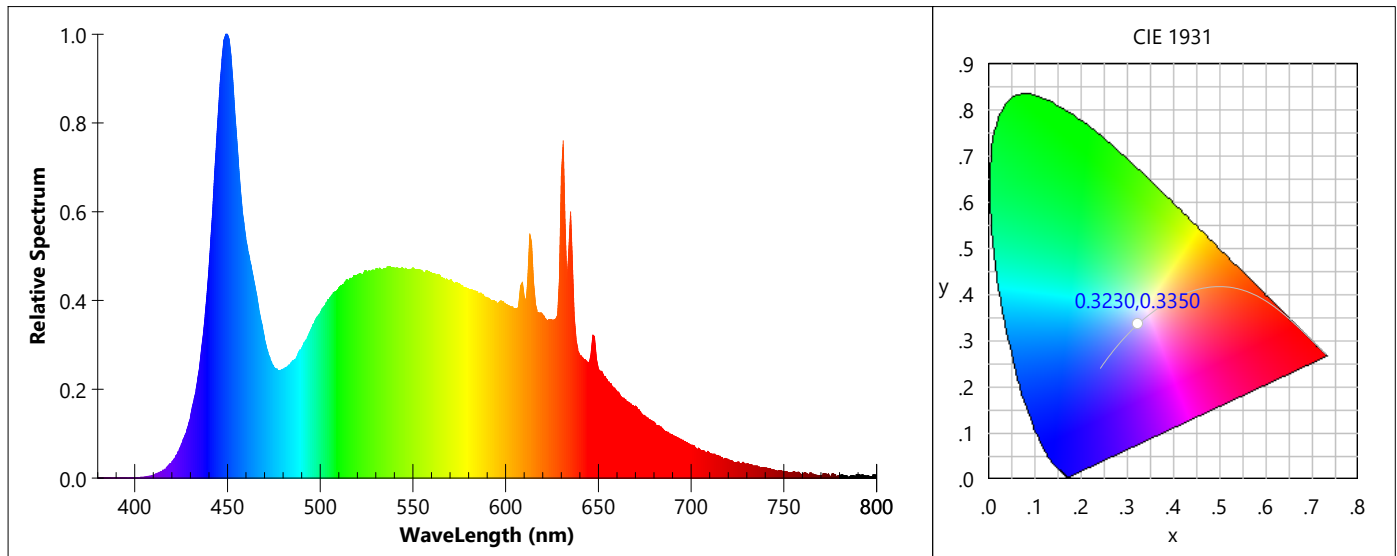
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
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Color Properties



Colorimetric

CIE(x,y): 0.3230,0.3350

CIE(u,v): 0.2027,0.3153

CIE(u',v'): 0.2027,0.4730

CCT: 5944 K (Duv=0.001204)

Dominant Wavelength: 493.8 nm

Color Purity: 0.034

Peak Wavelength: 449.5 nm

Half Width: 21.2 nm

Color Ratio: R:0.158, G:0.786, B:0.055

Color Render Index: Ra: 92.1

R1: 94	R2: 93	R3: 90	R4: 93	R5: 93	R6: 89	R7: 94	R8: 91
R9: 72	R10: 82	R11: 93	R12: 69	R13: 93	R14: 94	R15: 93	

Color Quality Scale: Qa: 90.9 , Qf: 89.6 , Qp: 93.7 , Qg: 101.0

Q1: 96	Q2: 98	Q3: 82	Q4: 83	Q5: 91	Q6: 93	Q7: 93	Q8: 97
Q9: 94	Q10: 90	Q11: 90	Q12: 92	Q13: 94	Q14: 94	Q15: 95	

TM-30-18: Rf: 90 , Rg: 101

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 11.565 umol/s
 Photosynthetic Active Radiant Flux (Фe): 2.543 W
 Photons Flux (400~500nm): 3.022 umol/s
 Photons Flux (600~700nm): 3.551 umol/s
 Photons Flux (PFuv 280~400nm): 0.001 umol/s
 Radiant Flux (400~500nm): 0.787 W
 Radiant Flux (600~700nm): 0.668 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 9.910 umol/s
 YPF (500~600nm): 4.279 umol/s
 YPF (700~800nm): 0.071 umol/s
 Radiant Flux (Chl-A): 0.174 W

Photosynthetic Photon Efficacy (Kp): 1.207 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.265
 Photons Flux (500~600nm): 4.992 umol/s
 Photons Flux (PFfr 700~800nm): 0.342 umol/s
 Photons Flux (PF_PBAR): 11.908 umol/s
 Radiant Flux (500~600nm): 1.088 W
 Radiant Flux (700~800nm): 0.056 W
 R/B: 0.8 R/FR: 11.9
 YPF (400~500nm): 2.198 umol/s
 YPF (600~700nm): 3.360 umol/s
 YPF (320~400nm): 0.001 umol/s
 Radiant Flux (Chl-B): 0.452 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 :