

Report No. : 206

Test Time : 2025-02-08 19:49:09

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SELECTA Goniophotometer Test Report

Product Info

Luminaire Category : **MagLight**
Luminaire : **Pallo d40мм 6W 2700K**
Lamp Category : **MagLight**
Lamp : **Pallo d40мм 6W 2700K**
Manufacturer : **Selecta**
Submitter : **Gubarev S. S.**
Nuber of Lamps : **1**
Luminous Length : **40 mm**

Lumens per Lamp : **0 lm**
Luminous Width : **40 mm**
Luminous Height : **300 mm**

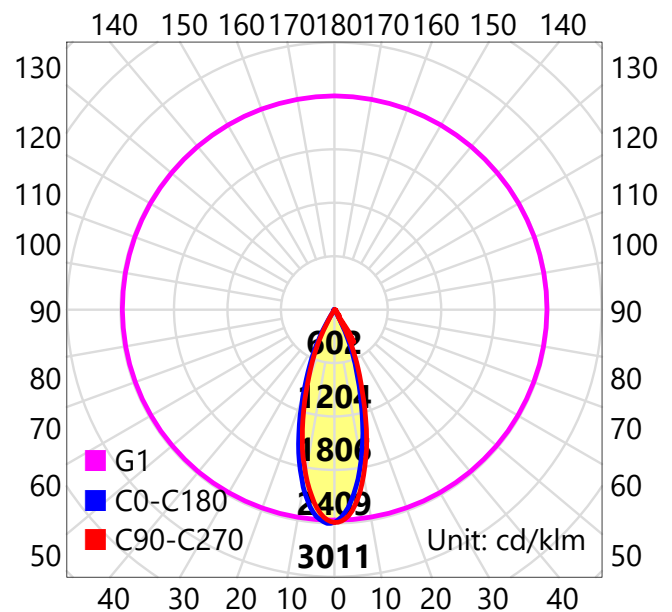
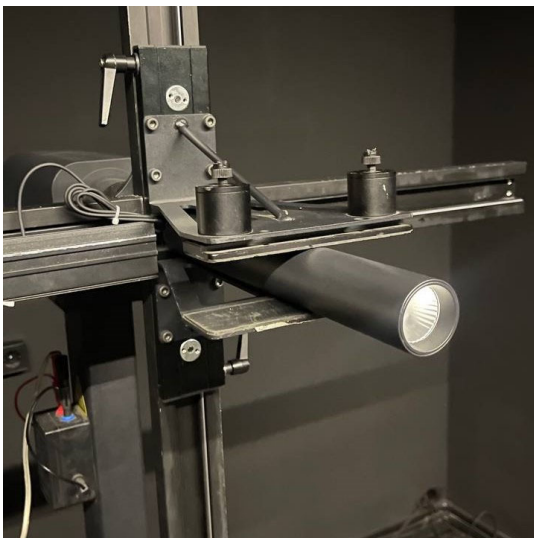
Electric Parameters

Voltage : **219.90 V** Current : **0.0670 A** Power : **5.82 W** Power Factor : **0.391** Frequency : **49.96 Hz**

Photometric Parameters

CIE Class : **Direct**
Measurement Flux : **311.7 lm**
Upward Ratio : **0.00 %**
Maximum Intensity : **2408.66 cd/klm**
Central Intensity : **2396.70 cd/klm**
Luminaire Efficacy Rating (LER) : **54**
Beam Angle (C0-C180,C90-C270) : **33.4 °, 33.6 °**
Field Angle (C0-C180,C90-C270) : **56.0 °, 61.4 °**

Total Rated Lamp Lumens : **311.7 lm**
Efficiency : **100.00 %**
Downward Ratio : **100.00 %**
Position Of Maximum Intensity : **C180° γ1°**
S/MH(C0-C180,C90-C270) : **0.55, 0.55**
Energy Efficiency Class : **G (EU 2019/2015 η_{TM}:61lm/W)**
Beam Angle (C45-C225,C135-C315) : **37.1 °, 37.5 °**
Field Angle (C45-C225,C135-C315) : **66.2 °, 66.3 °**



Average Beam Angle (50%): 35.4°

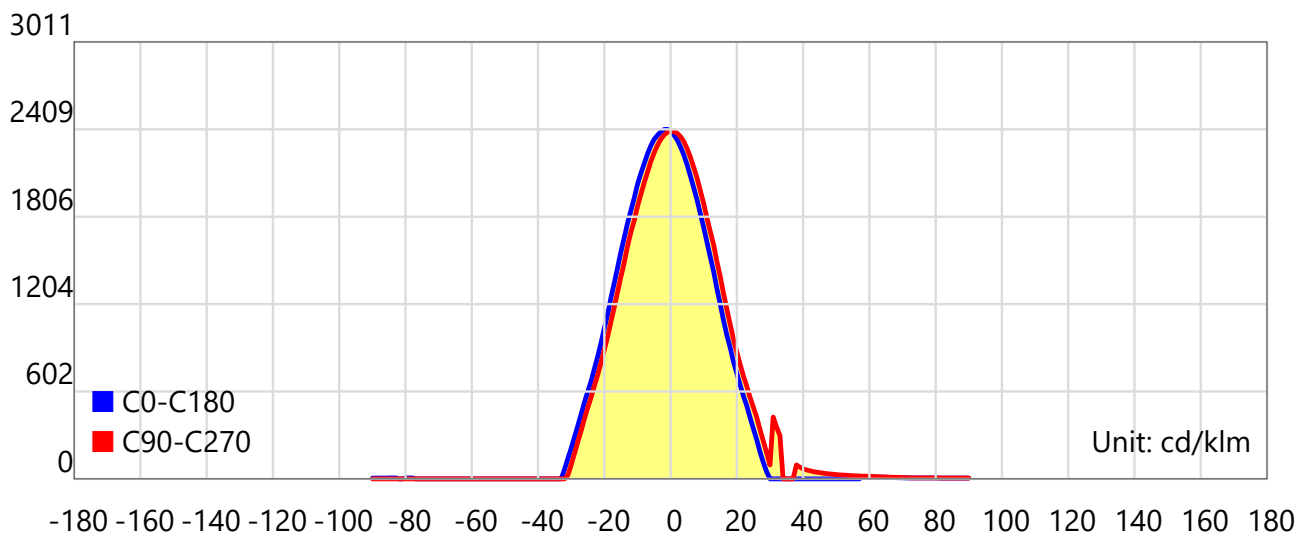
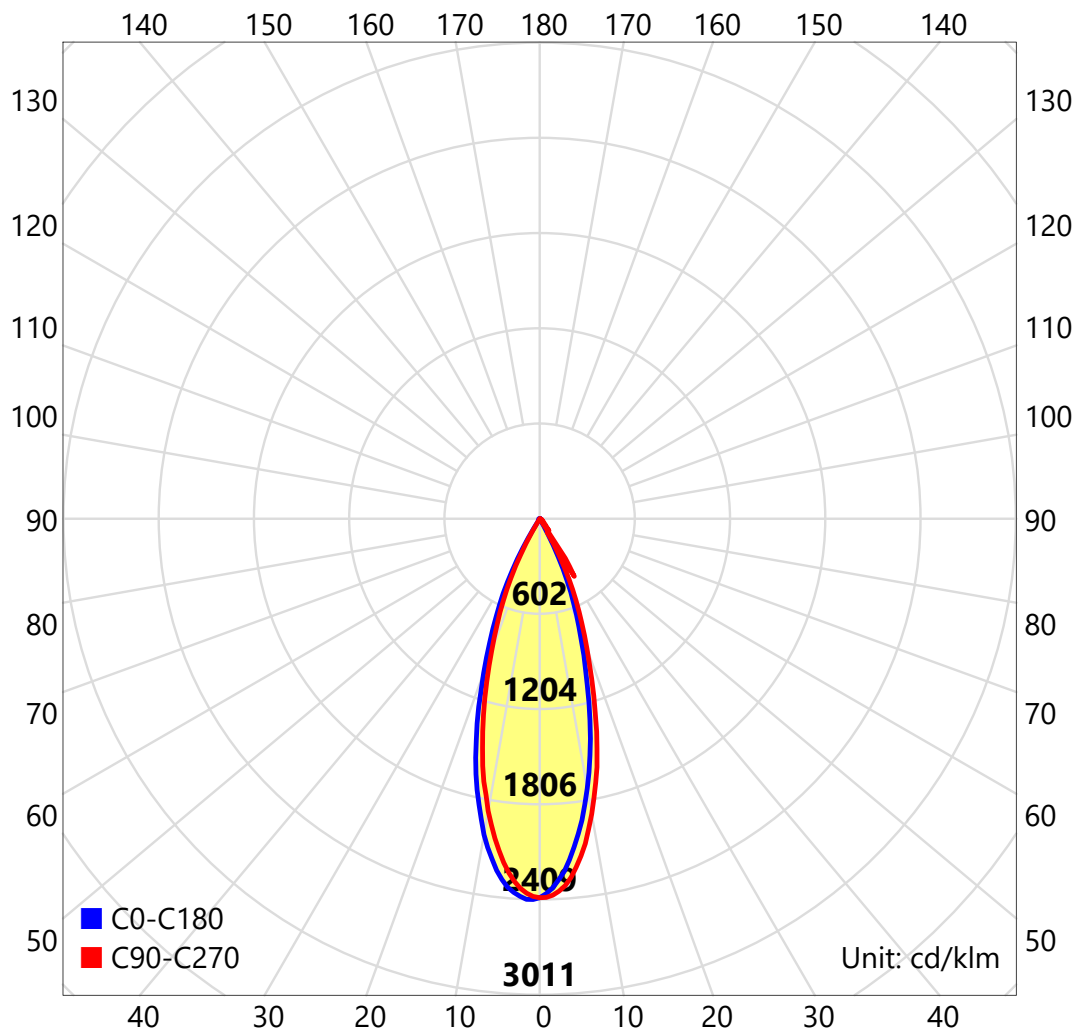
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0 γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve



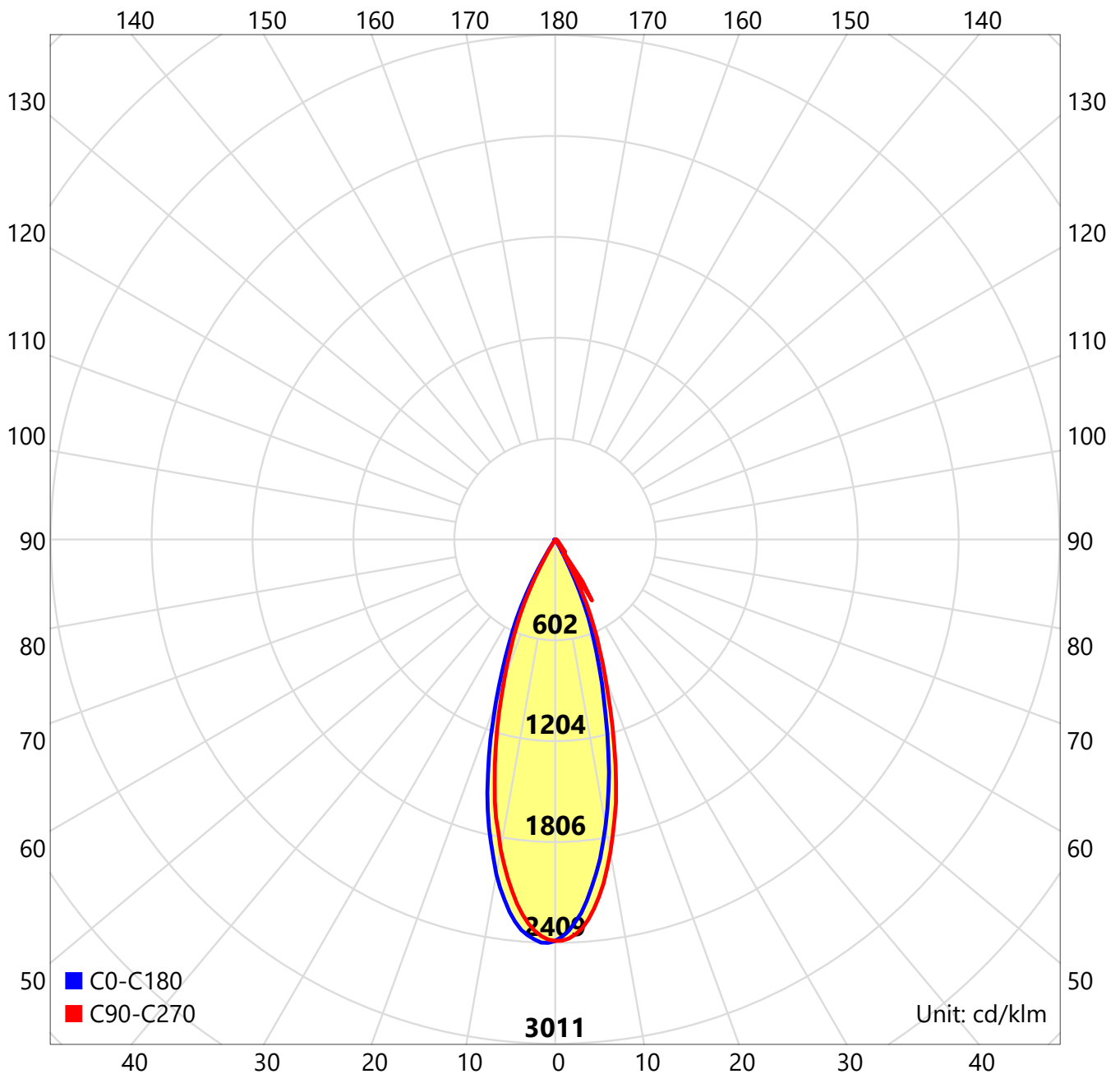
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



Pallo d40mm 6W 2700K/MagLight

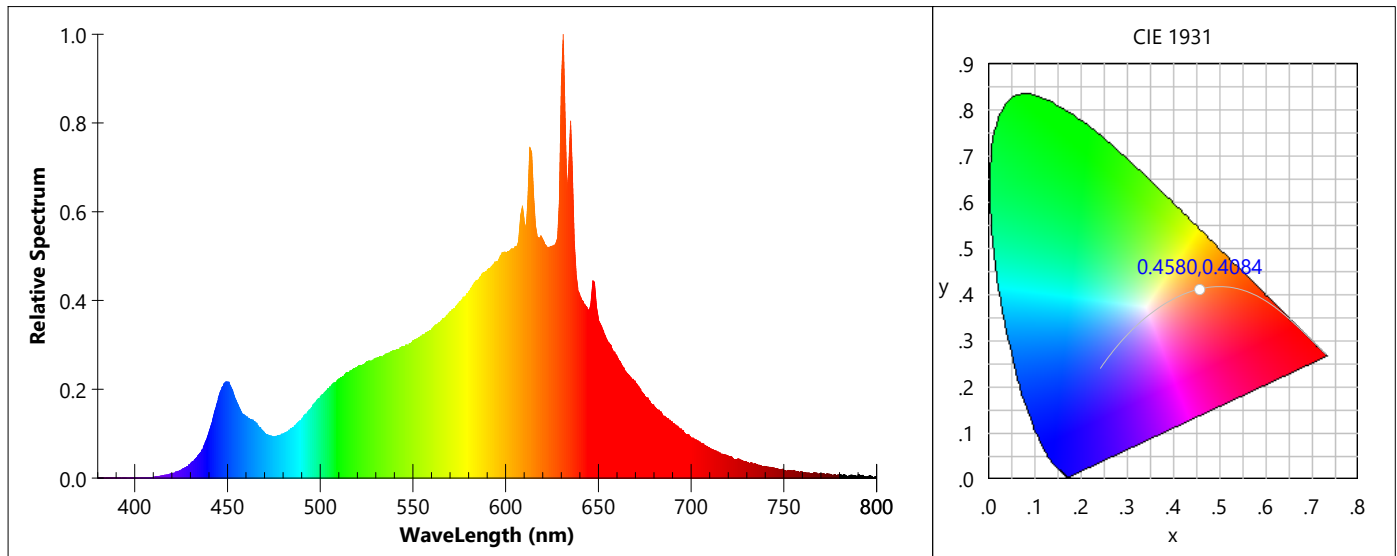
$\eta=100\%$

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Color Properties



Colorimetric

CIE(x,y): 0.4580,0.4084

CIE(u,v): 0.2623,0.3508

CIE(u',v'): 0.2623,0.5262

CCT: 2709 K (Duv=-0.000655)

Dominant Wavelength: 584.4 nm

Color Purity: 0.601

Peak Wavelength: 630.9 nm

Half Width: 40.5 nm

Color Ratio: R:0.267, G:0.709, B:0.025

Color Render Index: Ra: 91.9

R1: 93	R2: 97	R3: 98	R4: 93	R5: 93	R6: 97	R7: 88	R8: 75
R9: 46	R10: 93	R11: 97	R12: 89	R13: 94	R14: 99	R15: 86	

Color Quality Scale: Qa: 90.3 , Qf: 89.9 , Qp: 93.9 , Qg: 96.5

Q1: 85	Q2: 93	Q3: 91	Q4: 92	Q5: 94	Q6: 92	Q7: 91	Q8: 92
Q9: 96	Q10: 94	Q11: 94	Q12: 92	Q13: 92	Q14: 85	Q15: 85	

TM-30-18: Rf: 91 , Rg: 99

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 4.661 umol/s
 Photosynthetic Active Radiant Flux (Фe): 0.955 W
 Photons Flux (400~500nm): 0.426 umol/s
 Photons Flux (600~700nm): 2.410 umol/s
 Photons Flux (PFuv 280~400nm): 0.000 umol/s
 Radiant Flux (400~500nm): 0.110 W
 Radiant Flux (600~700nm): 0.453 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 4.251 umol/s
 YPF (500~600nm): 1.615 umol/s
 YPF (700~800nm): 0.042 umol/s
 Radiant Flux (Chl-A): 0.075 W

Photosynthetic Photon Efficacy (Kp): 0.801 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.164
 Photons Flux (500~600nm): 1.825 umol/s
 Photons Flux (PFfr 700~800nm): 0.196 umol/s
 Photons Flux (PF_PBAR): 4.858 umol/s
 Radiant Flux (500~600nm): 0.392 W
 Radiant Flux (700~800nm): 0.032 W
 R/B: 4.1 R/FR: 14.0
 YPF (400~500nm): 0.307 umol/s
 YPF (600~700nm): 2.287 umol/s
 YPF (320~400nm): 0.000 umol/s
 Radiant Flux (Chl-B): 0.101 W

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 :