

Report No. : 204

Test Time : 2025-02-08 16:48:51

Page 1 of 4

SELECTA Goniophotometer Test Report

Product Info

Luminaire Category : **MagLight**
Luminaire : **Pallo d40мм 6W 6500K**
Lamp Category : **MagLight**
Lamp : **Pallo d40мм 6W 6500K**
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**

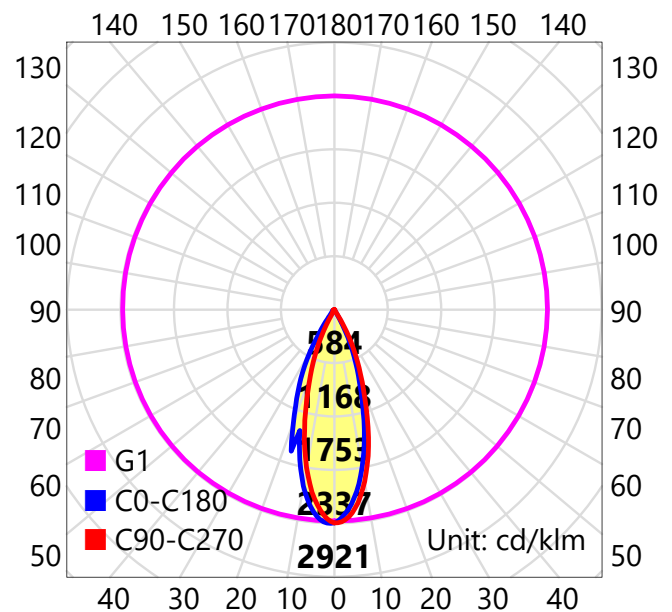
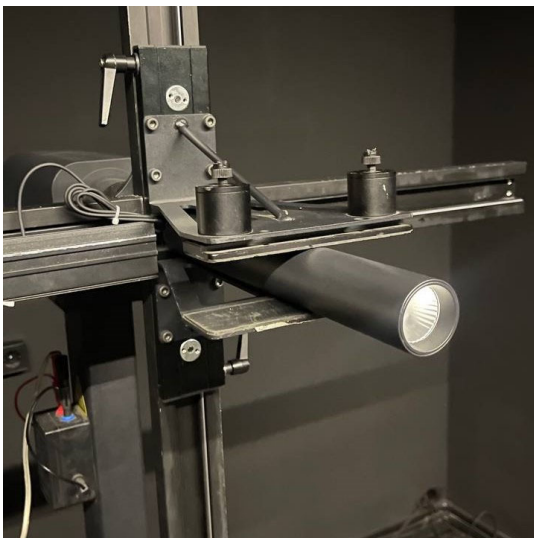
Electric Parameters

Voltage : **219.90 V** Current : **0.0670 A** Power : **5.79 W** Power Factor : **0.390** Frequency : **49.94 Hz**

Photometric Parameters

CIE Class : **Direct**
Measurement Flux : **370.7 lm**
Upward Ratio : **0.00 %**
Maximum Intensity : **2336.84 cd/klm**
Central Intensity : **2330.35 cd/klm**
Luminaire Efficacy Rating (LER) : **64**
Beam Angle (C0-C180,C90-C270) : **37.4 °, 33.4 °**
Field Angle (C0-C180,C90-C270) : **61.8 °, 57.0 °**

Total Rated Lamp Lumens : **370.7 lm**
Efficiency : **100.00 %**
Downward Ratio : **100.00 %**
Position Of Maximum Intensity : **C180° γ1°**
S/MH(C0-C180,C90-C270) : **0.56, 0.55**
Energy Efficiency Class : **G (EU 2019/2015 η_{TM}:73lm/W)**
Beam Angle (C45-C225,C135-C315) : **37.1 °, 36.9 °**
Field Angle (C45-C225,C135-C315) : **66.1 °, 65.9 °**



Average Beam Angle (50%): 36.2°

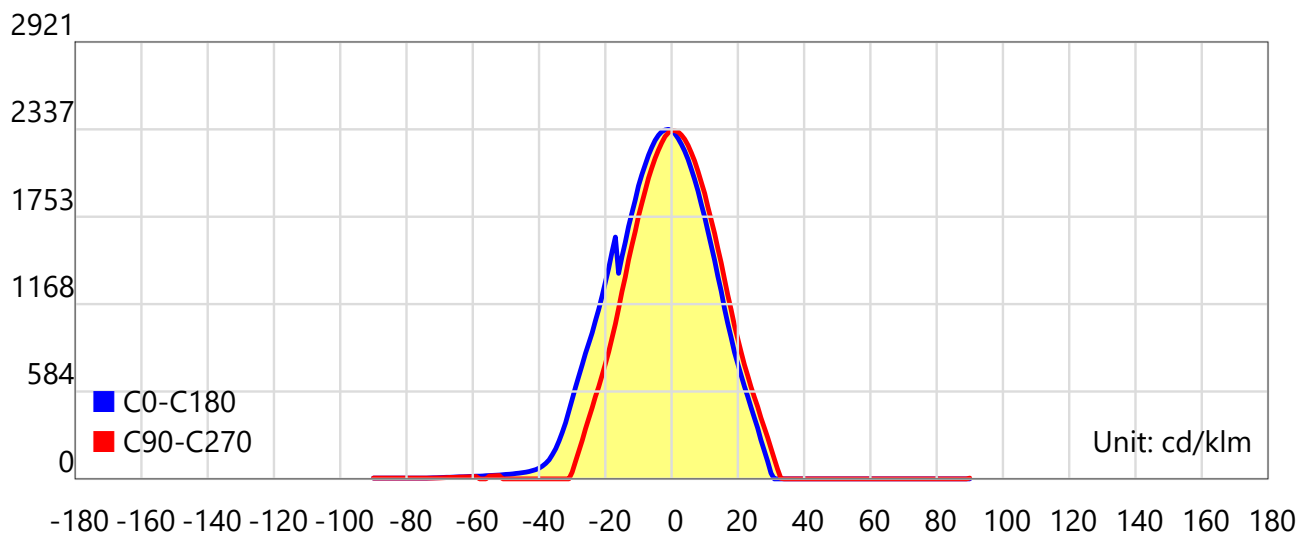
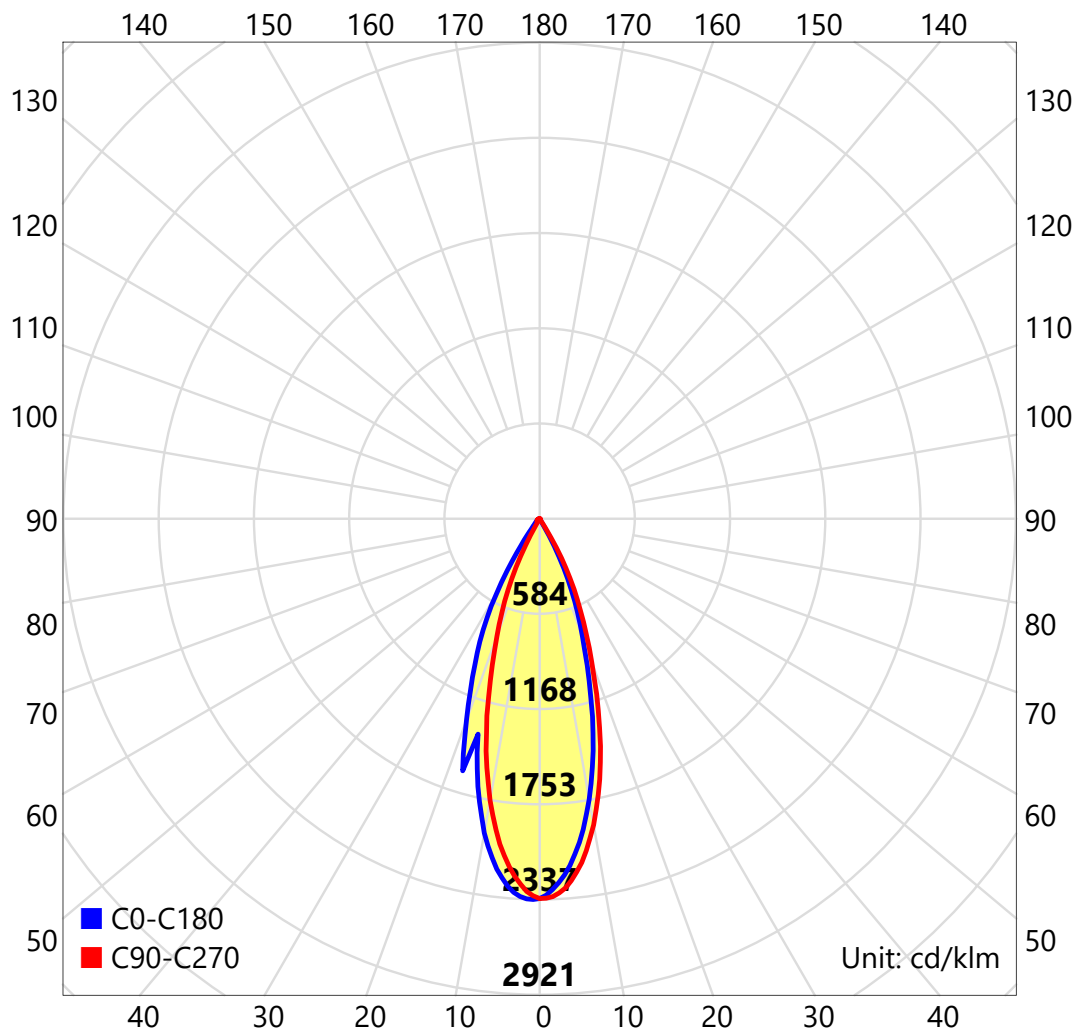
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0 γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

Report No. : 204

Test Time : 2025-02-08 16:48:51

Page 2 of 4

Light Distribution Curve



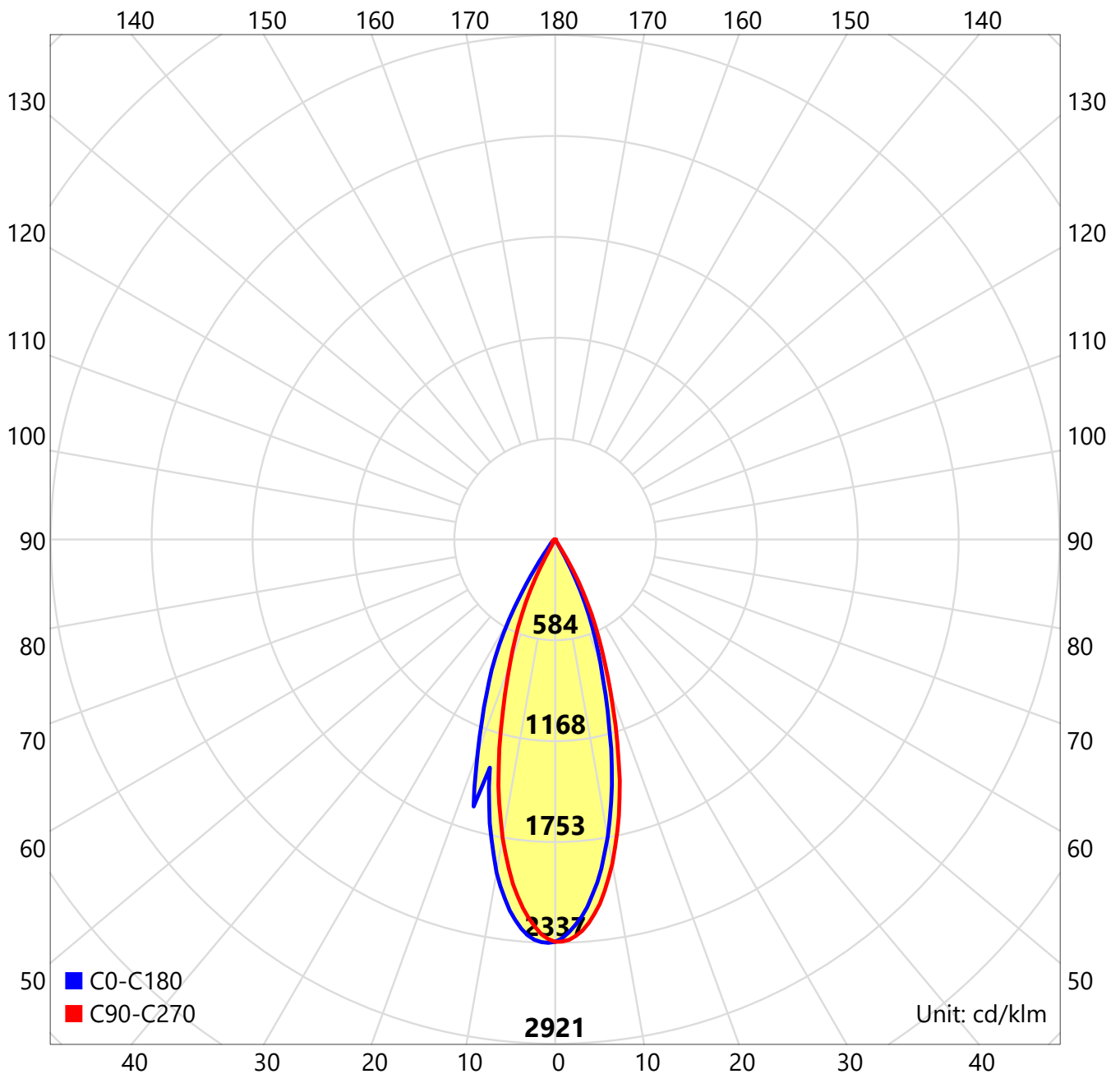
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

Report No. : 204

Test Time : 2025-02-08 16:48:51

Page 3 of 4

Light Distribution Curve (cd/klm)



Pallo d40mm 6W 6500K/MagLight

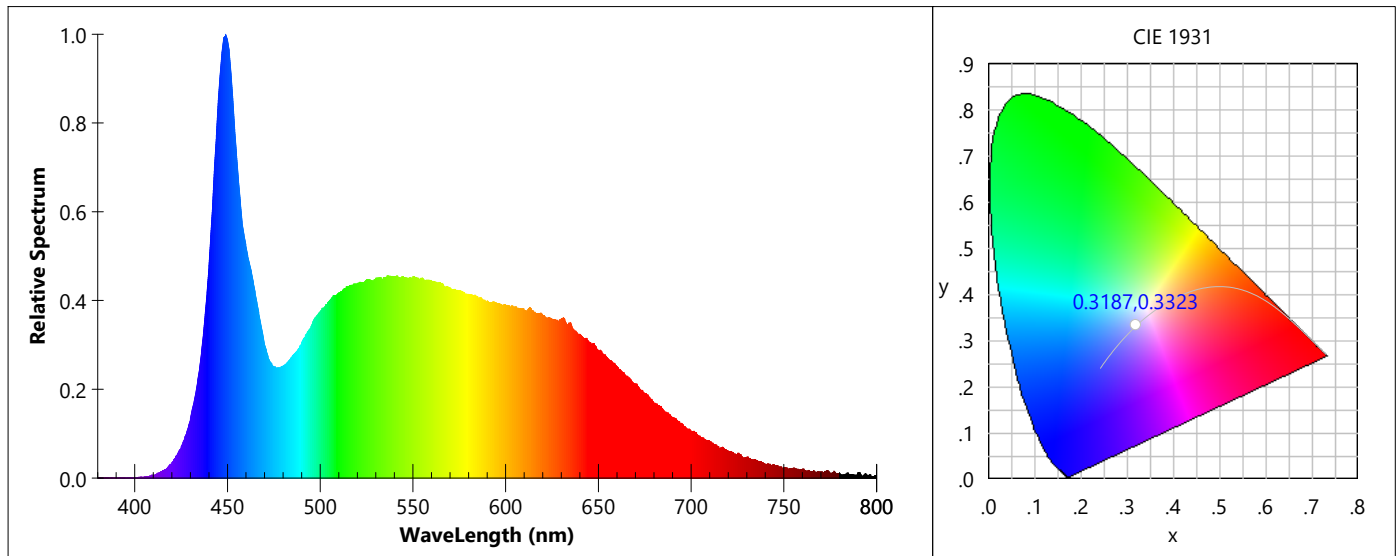
$\eta=100\%$

Report No. : 204

Test Time : 2025-02-08 16:48:51

Page 4 of 4

Color Properties



Colorimetric

CIE(x,y): 0.3187,0.3323

CIE(u,v): 0.2008,0.3140

CIE(u',v'): 0.2008,0.4710

CCT: 6168 K (Duv=0.001907)

Dominant Wavelength: 490.8 nm

Color Purity: 0.050

Peak Wavelength: 448.9 nm

Half Width: 20.6 nm

Color Ratio: R:0.152, G:0.790, B:0.058

Color Render Index: Ra: 91.4

R1: 92	R2: 93	R3: 91	R4: 93	R5: 92	R6: 88	R7: 94	R8: 89
R9: 66	R10: 81	R11: 93	R12: 69	R13: 92	R14: 95	R15: 91	

Color Quality Scale: Qa: 89.9 , Qf: 89.1 , Qp: 91.8 , Qg: 98.7

Q1: 94	Q2: 98	Q3: 82	Q4: 82	Q5: 89	Q6: 92	Q7: 93	Q8: 96
Q9: 96	Q10: 90	Q11: 89	Q12: 90	Q13: 92	Q14: 89	Q15: 91	

TM-30-18: Rf: 90 , Rg: 100

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 5.734 umol/s
 Photosynthetic Active Radiant Flux (Фe): 1.257 W
 Photons Flux (400~500nm): 1.504 umol/s
 Photons Flux (600~700nm): 1.814 umol/s
 Photons Flux (PFuv 280~400nm): 0.001 umol/s
 Radiant Flux (400~500nm): 0.391 W
 Radiant Flux (600~700nm): 0.339 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 4.908 umol/s
 YPF (500~600nm): 2.072 umol/s
 YPF (700~800nm): 0.052 umol/s
 Radiant Flux (Chl-A): 0.092 W

Photosynthetic Photon Efficacy (Kp): 0.990 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.217
 Photons Flux (500~600nm): 2.416 umol/s
 Photons Flux (PFfr 700~800nm): 0.256 umol/s
 Photons Flux (PF_PBAR): 5.991 umol/s
 Radiant Flux (500~600nm): 0.526 W
 Radiant Flux (700~800nm): 0.042 W
 R/B: 0.9 R/FR: 8.1
 YPF (400~500nm): 1.093 umol/s
 YPF (600~700nm): 1.690 umol/s
 YPF (320~400nm): 0.000 umol/s
 Radiant Flux (Chl-B): 0.221 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 :