

Report No. : 205

Test Time : 2025-02-08 17:55:19

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SELECTA Goniophotometer Test Report

Product Info

Luminaire Category : **MagLight**
Luminaire : **Pallo d40мм 6W 4000K**
Lamp Category : **MagLight**
Lamp : **Pallo d40мм 6W 4000K**
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**

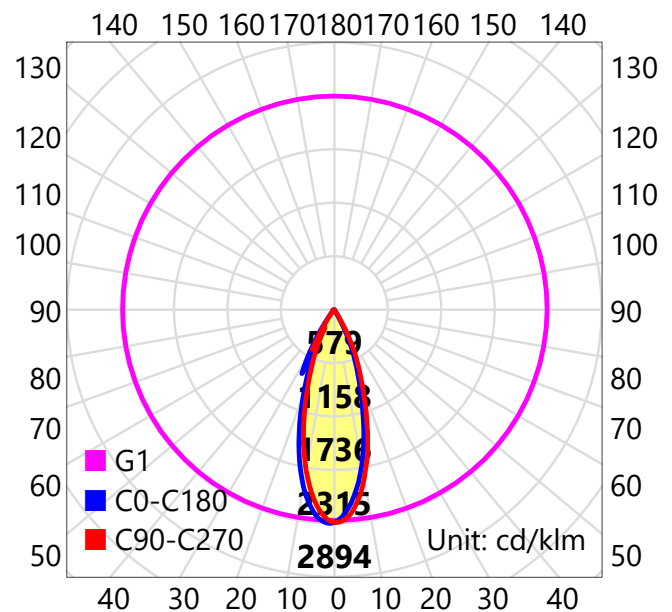
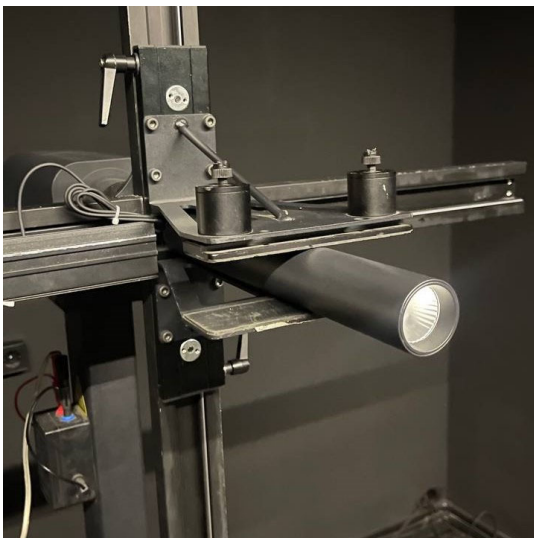
Electric Parameters

Voltage : **219.90 V** Current : **0.0660 A** Power : **5.67 W** Power Factor : **0.389** Frequency : **49.96 Hz**

Photometric Parameters

CIE Class : **Direct**
Measurement Flux : **376.8 lm**
Upward Ratio : **0.00 %**
Maximum Intensity : **2315.12 cd/klm**
Central Intensity : **2304.83 cd/klm**
Luminaire Efficacy Rating (LER) : **66**
Beam Angle (C0-C180,C90-C270) : **33.7 °, 33.7 °**
Field Angle (C0-C180,C90-C270) : **62.1 °, 62.4 °**

Total Rated Lamp Lumens : **376.8 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}:75lm/W)**
Beam Angle (C45-C225,C135-C315) : **37.1 °, 37.2 °**
Field Angle (C45-C225,C135-C315) : **66.2 °, 66.1 °**



Average Beam Angle (50%): 35.4°

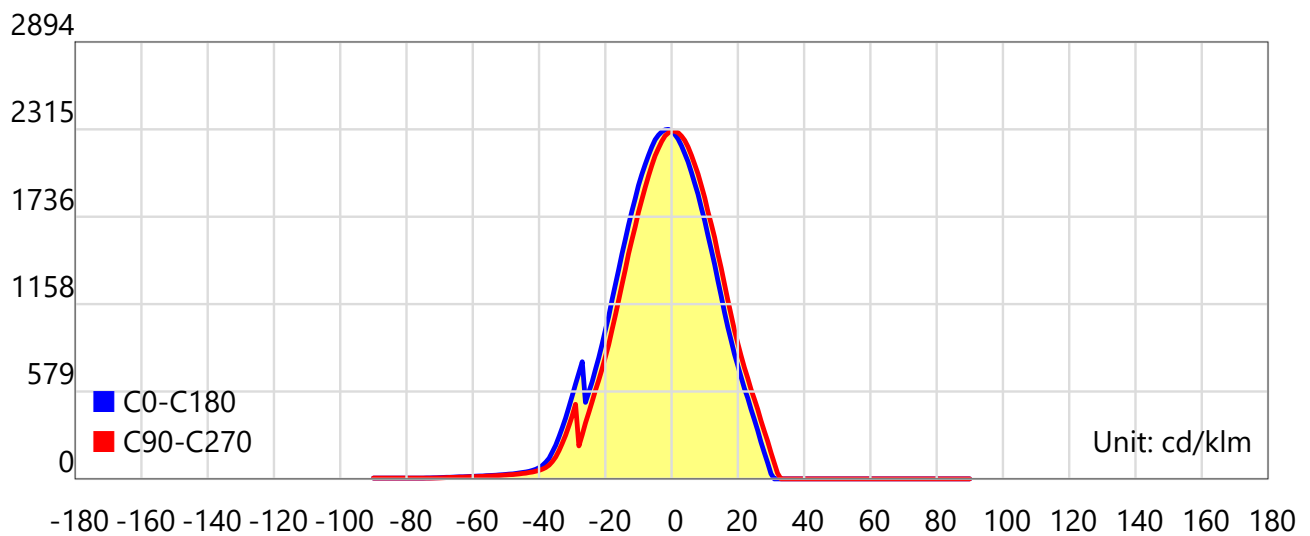
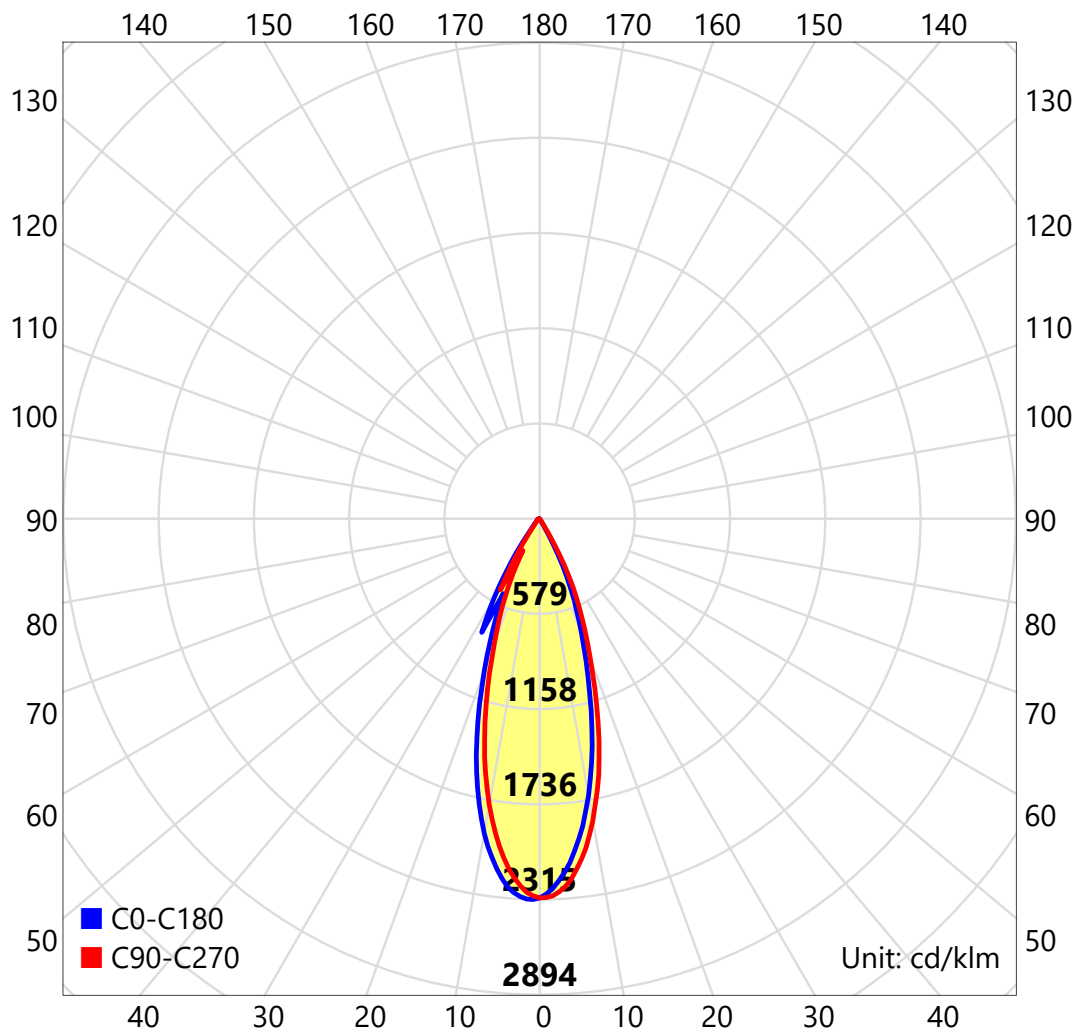
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0 γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve



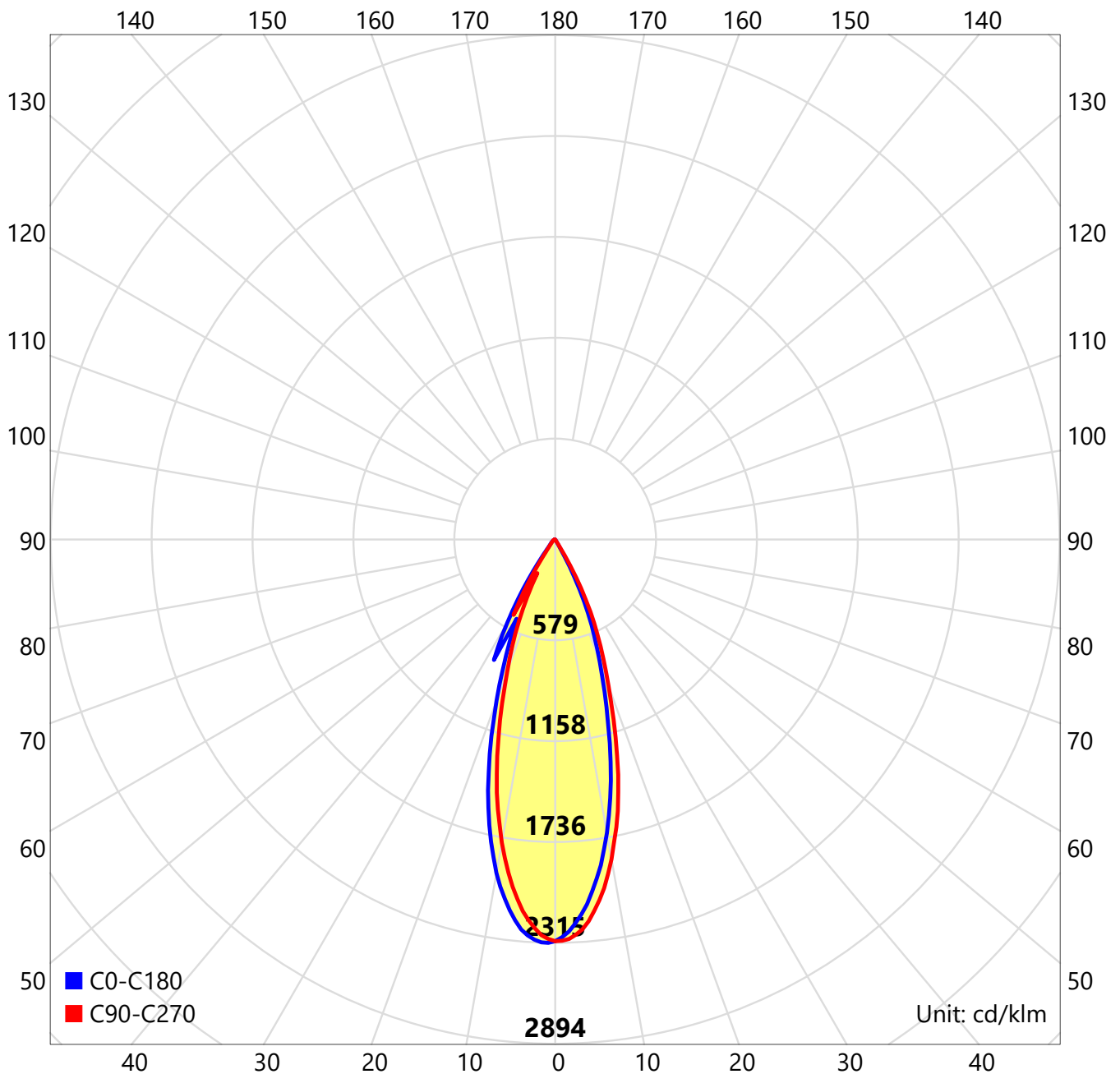
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



Pallo d40mm 6W 4000K/MagLight

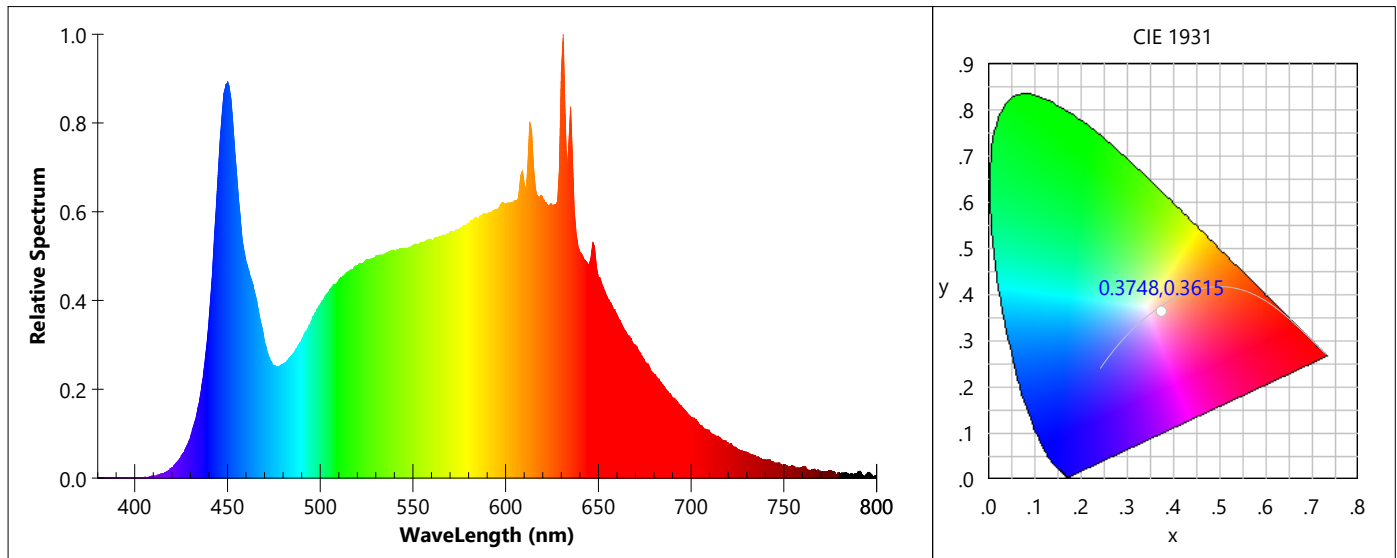
$\eta=100\%$

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Color Properties



Colorimetric

CIE(x,y): 0.3748,0.3615

CIE(u,v): 0.2275,0.3292

CIE(u',v'): 0.2275,0.4938

CCT: 4046 K (Duv=-0.005642)

Dominant Wavelength: 582.9 nm

Color Purity: 0.209

Peak Wavelength: 630.8 nm

Half Width: 111.6 nm

Color Ratio: R:0.206, G:0.749, B:0.044

Color Render Index: Ra: 95.8

R1: 98	R2: 98	R3: 96	R4: 97	R5: 98	R6: 94	R7: 94	R8: 91
R9: 78	R10: 95	R11: 98	R12: 78	R13: 99	R14: 97	R15: 97	

Color Quality Scale: Qa: 93.3 , Qf: 91.7 , Qp: 96.6 , Qg: 102.5

Q1: 95	Q2: 99	Q3: 86	Q4: 88	Q5: 95	Q6: 96	Q7: 94	Q8: 97
Q9: 97	Q10: 94	Q11: 94	Q12: 94	Q13: 95	Q14: 94	Q15: 94	

TM-30-18: Rf: 92 , Rg: 102

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 5.779 umol/s
 Photosynthetic Active Radiant Flux (Фe): 1.229 W
 Photons Flux (400~500nm): 1.082 umol/s
 Photons Flux (600~700nm): 2.366 umol/s
 Photons Flux (PFuv 280~400nm): 0.000 umol/s
 Radiant Flux (400~500nm): 0.280 W
 Radiant Flux (600~700nm): 0.444 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 5.090 umol/s
 YPF (500~600nm): 2.027 umol/s
 YPF (700~800nm): 0.053 umol/s
 Radiant Flux (Chl-A): 0.091 W

Photosynthetic Photon Efficacy (Kp): 1.019 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.217
 Photons Flux (500~600nm): 2.332 umol/s
 Photons Flux (PFfr 700~800nm): 0.254 umol/s
 Photons Flux (PF_PBAR): 6.034 umol/s
 Radiant Flux (500~600nm): 0.505 W
 Radiant Flux (700~800nm): 0.042 W
 R/B: 1.6 R/FR: 10.6
 YPF (400~500nm): 0.784 umol/s
 YPF (600~700nm): 2.227 umol/s
 YPF (320~400nm): 0.000 umol/s
 Radiant Flux (Chl-B): 0.181 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 :