

Report No. : 199

Test Time : 2025-02-03 10:25:00

Page 1 of 4

## SELECTA Goniophotometer Test Report

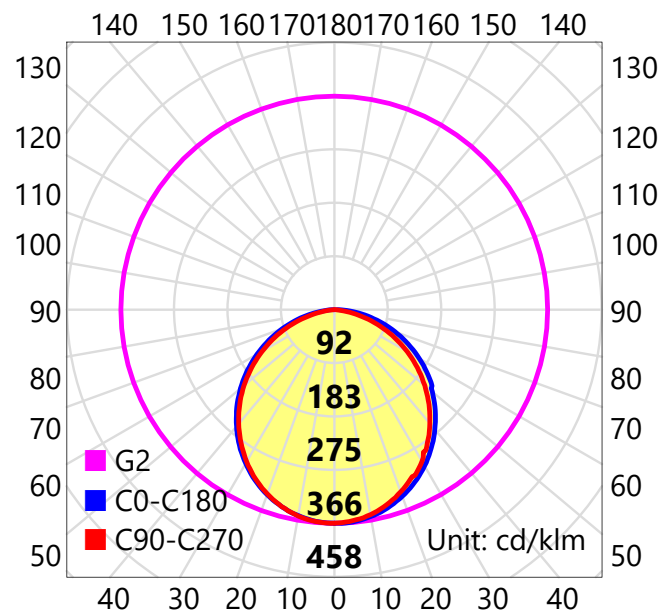
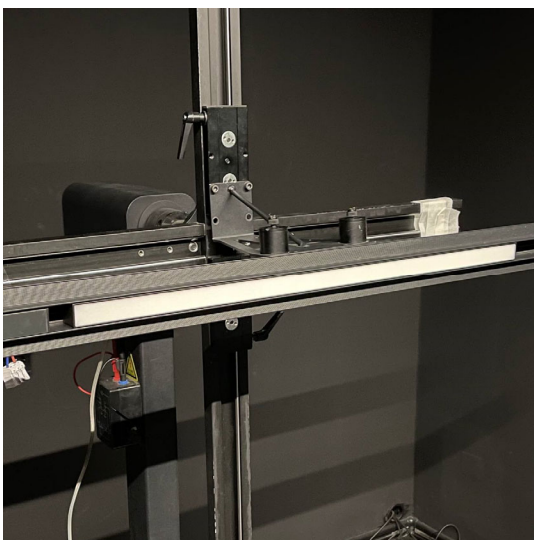
### Product Info

Luminaire Category : **MagLight**Luminaire : **Line 600мм 2700K**Lamp Category : **MagLight**Lamp : **Line 600мм 2700K**Manufacturer : **Selecta**Submitter : **Gubarev S. S.**Nuber of Lamps : **1**Lumens per Lamp : **0 lm**Luminous Length : **600 mm**Luminous Width : **22 mm**Luminous Height : **43 mm**

### Electric Parameters

Voltage : **219.80 V** Current : **0.2060 A** Power : **20.68 W** Power Factor : **0.457** Frequency : **49.96 Hz**

### Photometric Parameters

CIE Class : **Direct**Measurement Flux : **1325.5 lm**Upward Ratio : **0.00 %**Maximum Intensity : **366.06 cd/klm**Central Intensity : **365.78 cd/klm**Luminaire Efficacy Rating (LER) : **64**Beam Angle (C0-C180,C90-C270) : **112.3 °, 106.6 °**Field Angle (C0-C180,C90-C270) : **163.4 °, 155.9 °**Total Rated Lamp Lumens : **1325.5 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C0° γ2°**S/MH(C0-C180,C90-C270) : **1.25, 1.22**Energy Efficiency Class : **G (EU 2019/2015 η<sub>TM</sub>:75lm/W)**Beam Angle (C45-C225,C135-C315) : **108.8 °, 108.8 °**Field Angle (C45-C225,C135-C315) : **159.0 °, 159.2 °**

Average Beam Angle (50%): 109.1°

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.

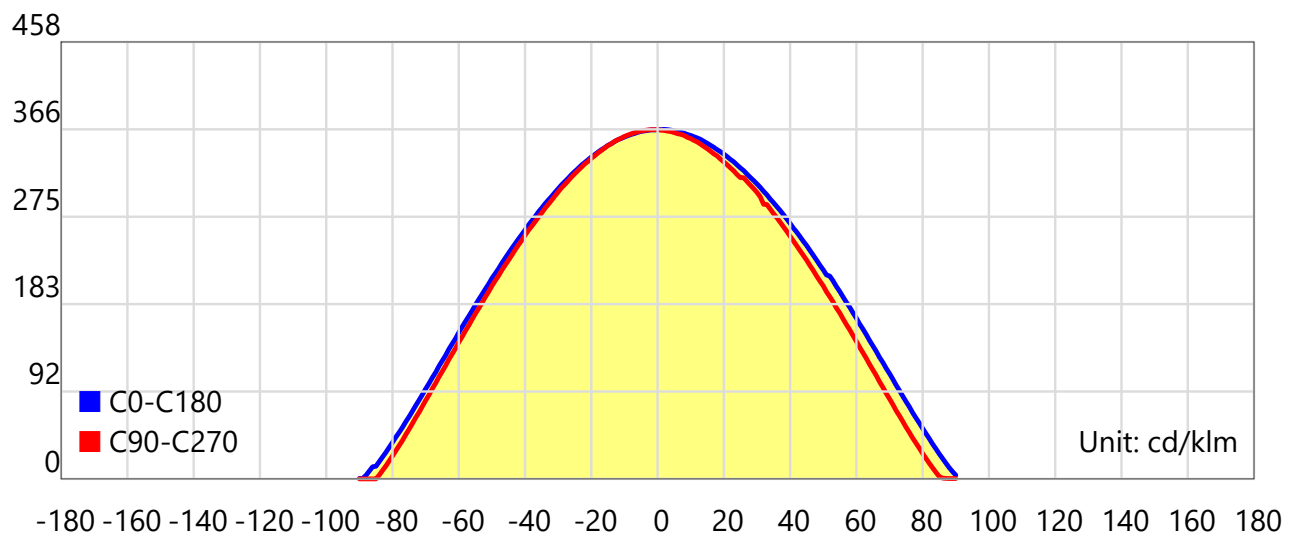
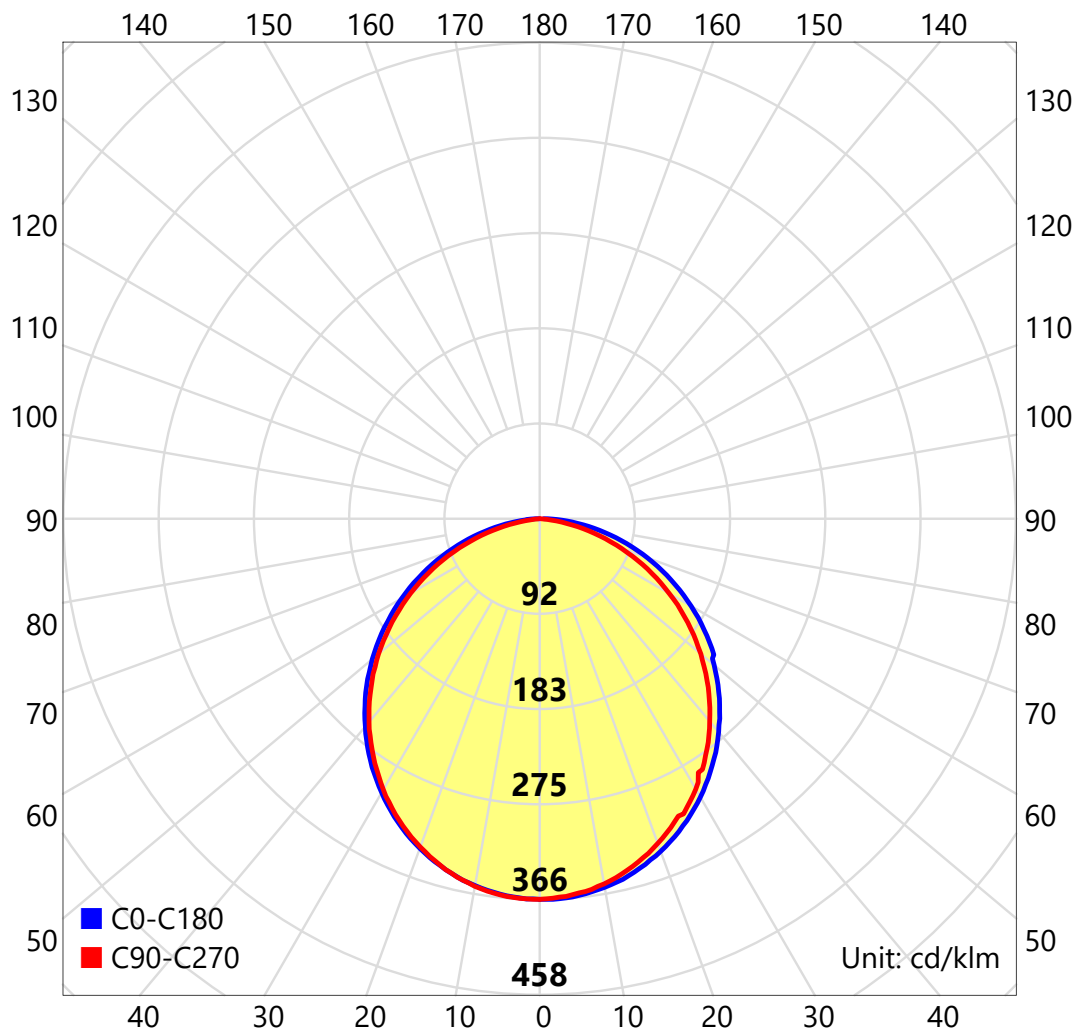
Review By :

Report No. : 199

Test Time : 2025-02-03 10:25:00

Page 2 of 4

## Light Distribution Curve



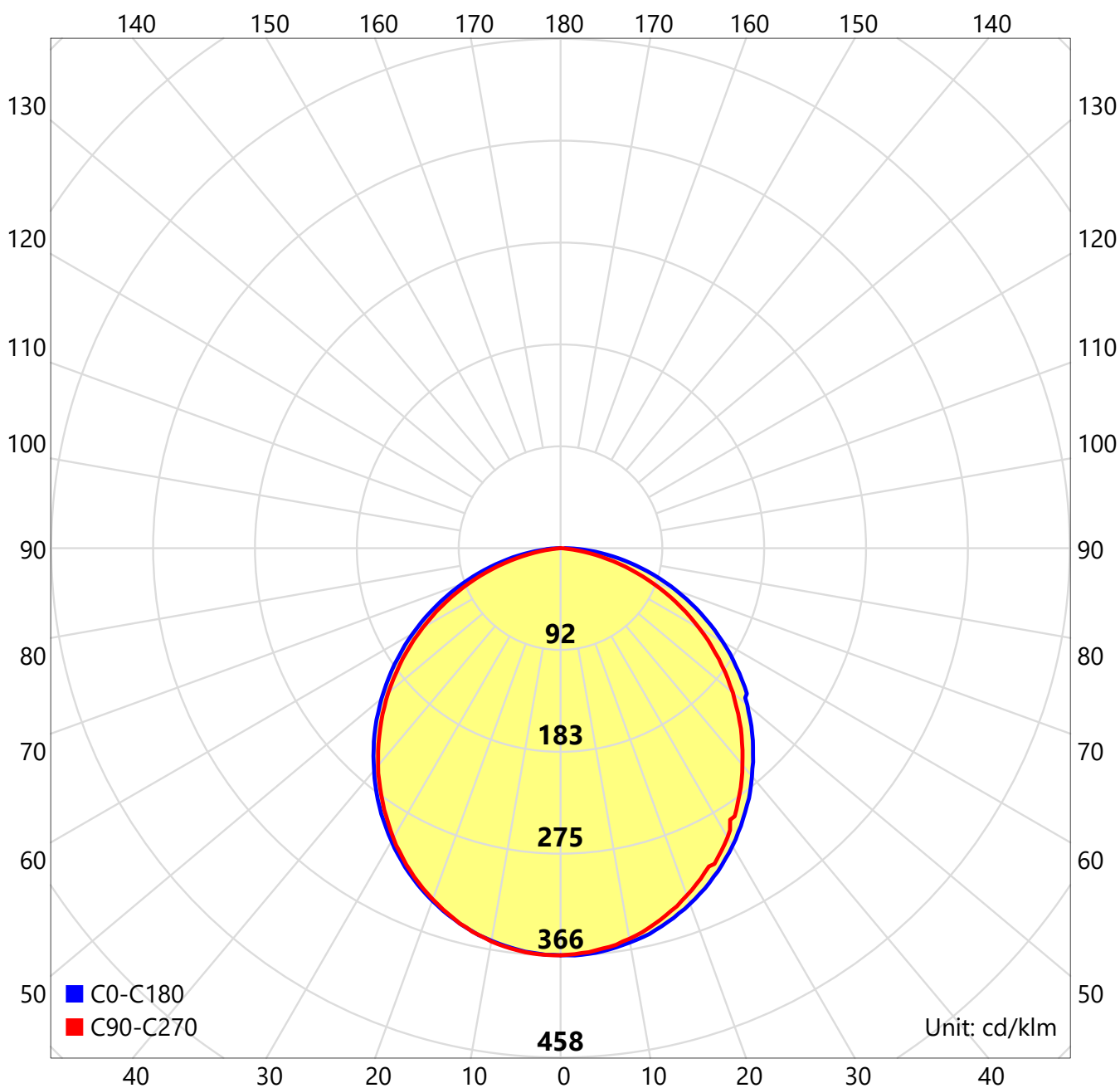
Test Type : Type C      Test Distance : 7.922 m      C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0  
Test Device : Lisun LSG-1800A      Temperature : 21.0°C      Humidity : 22.0%  
Test Lab :  
Test By : Gubarev S. S.      Review By :

Report No. : 199

Test Time : 2025-02-03 10:25:00

Page 3 of 4

### Light Distribution Curve (cd/klm)



Line 600mm 2700K/MagLight

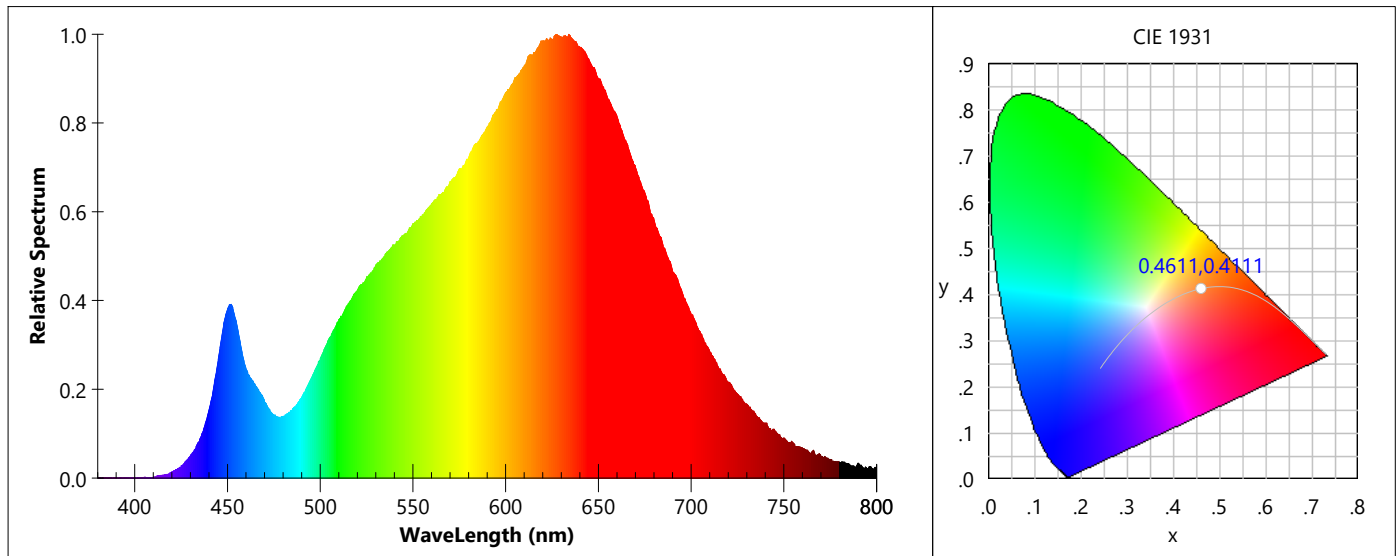
$\eta=100\%$

Report No. : 199

Test Time : 2025-02-03 10:25:00

Page 4 of 4

## Color Properties



### Colorimetric

CIE(x,y): 0.4611,0.4111

CIE(u,v): 0.2631,0.3518

CIE(u',v'): 0.2631,0.5277

CCT: 2687 K (Duv=0.000085 )

Dominant Wavelength: 584.2 nm

Color Purity: 0.618

Peak Wavelength: 634.1 nm

Half Width: 152.7 nm

Color Ratio: R:0.264, G:0.714, B:0.021

Color Render Index: Ra: 92.6

R1: 93	R2: 95	R3: 95	R4: 93	R5: 92	R6: 94	R7: 94	R8: 84
R9: 65	R10: 87	R11: 95	R12: 80	R13: 94	R14: 96	R15: 90	

Color Quality Scale: Qa: 90.1 , Qf: 89.6 , Qp: 93.5 , Qg: 97.2

Q1: 89	Q2: 96	Q3: 87	Q4: 88	Q5: 90	Q6: 89	Q7: 88	Q8: 91
Q9: 96	Q10: 92	Q11: 92	Q12: 92	Q13: 93	Q14: 88	Q15: 88	

TM-30-18: Rf: 91 , Rg: 101

### Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 22.045 umol/s  
 Photosynthetic Active Radiant Flux (Фe): 4.439 W  
 Photons Flux (400~500nm): 1.652 umol/s  
 Photons Flux (600~700nm): 12.639 umol/s  
 Photons Flux (PFuv 280~400nm): 0.001 umol/s  
 Radiant Flux (400~500nm): 0.426 W  
 Radiant Flux (600~700nm): 2.349 W  
 Radiant Flux (280~400nm): 0.000 W  
 YPF (320~800nm): 20.153 umol/s  
 YPF (500~600nm): 6.867 umol/s  
 YPF (700~800nm): 0.443 umol/s  
 Radiant Flux (Chl-A): 0.420 W

Photosynthetic Photon Efficacy (Kp): 1.066 umol/J  
 Photosynthetic Radiant Efficiency (ηe): 0.215  
 Photons Flux (500~600nm): 7.753 umol/s  
 Photons Flux (PFfr 700~800nm): 2.184 umol/s  
 Photons Flux (PF\_PBAR): 24.230 umol/s  
 Radiant Flux (500~600nm): 1.664 W  
 Radiant Flux (700~800nm): 0.359 W  
 R/B: 5.5      R/FR: 6.5  
 YPF (400~500nm): 1.192 umol/s  
 YPF (600~700nm): 11.650 umol/s  
 YPF (320~400nm): 0.001 umol/s  
 Radiant Flux (Chl-B): 0.448 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 :