

Report No. : 197

Test Time : 2025-02-01 19:47:16

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## SELECTA Goniophotometer Test Report

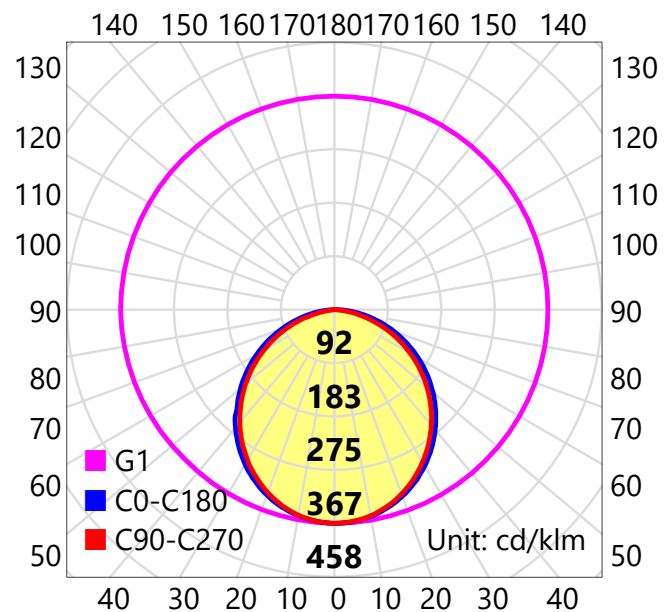
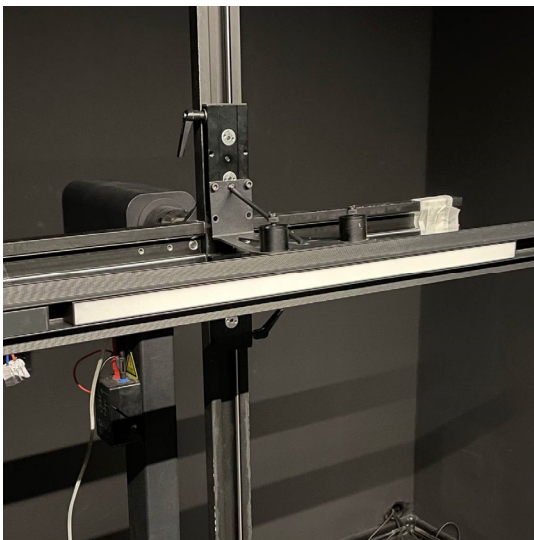
### Product Info

Luminaire Category : **MagLight**Luminaire : **Line 600мм 6000K**Lamp Category : **MagLight**Lamp : **Line 600мм 6000K**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 : **219.70 V** Current : **0.2050 A** Power : **20.62 W** Power Factor : **0.456** Frequency : **49.96 Hz**

### Photometric Parameters

CIE Class : **Direct**Measurement Flux : **1447.1 lm**Upward Ratio : **0.00 %**Maximum Intensity : **366.74 cd/klm**Central Intensity : **366.54 cd/klm**Luminaire Efficacy Rating (LER) : **70**Beam Angle (C0-C180,C90-C270) : **111.9 °, 107.1 °**Field Angle (C0-C180,C90-C270) : **163.4 °, 156.0 °**Total Rated Lamp Lumens : **1447.1 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C270° γ1°**S/MH(C0-C180,C90-C270) : **1.25, 1.22**Energy Efficiency Class : **G (EU 2019/2015 η<sub>TM</sub>:66lm/W)**Beam Angle (C45-C225,C135-C315) : **108.6 °, 108.5 °**Field Angle (C45-C225,C135-C315) : **158.5 °, 158.7 °**

Average Beam Angle (50%): 109.0°

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.

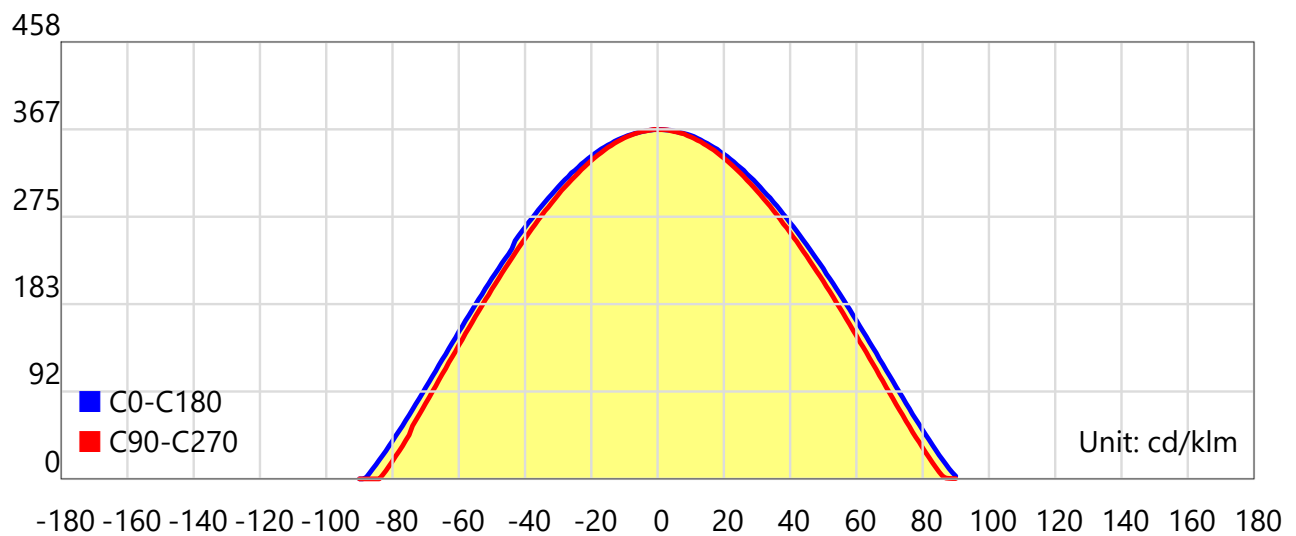
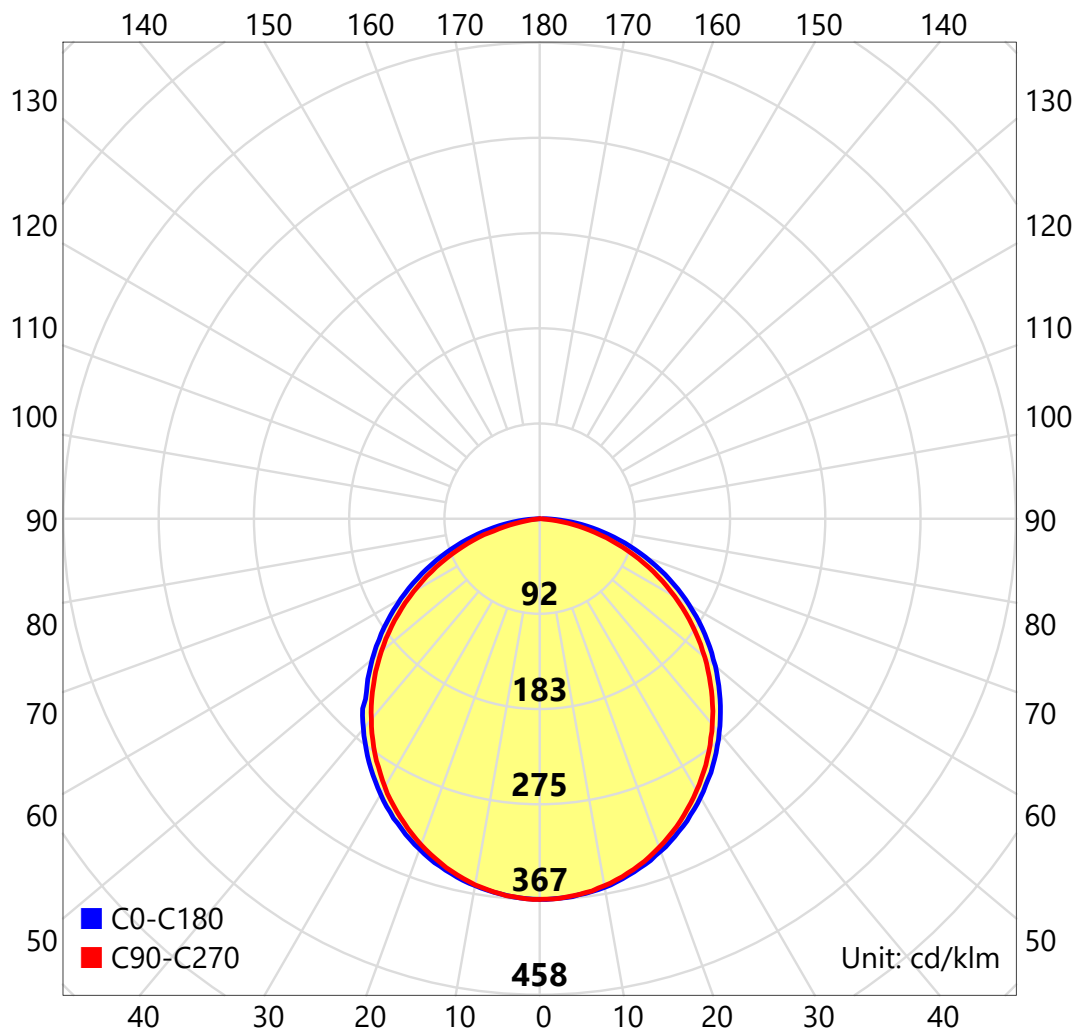
Review By :

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## Light Distribution Curve



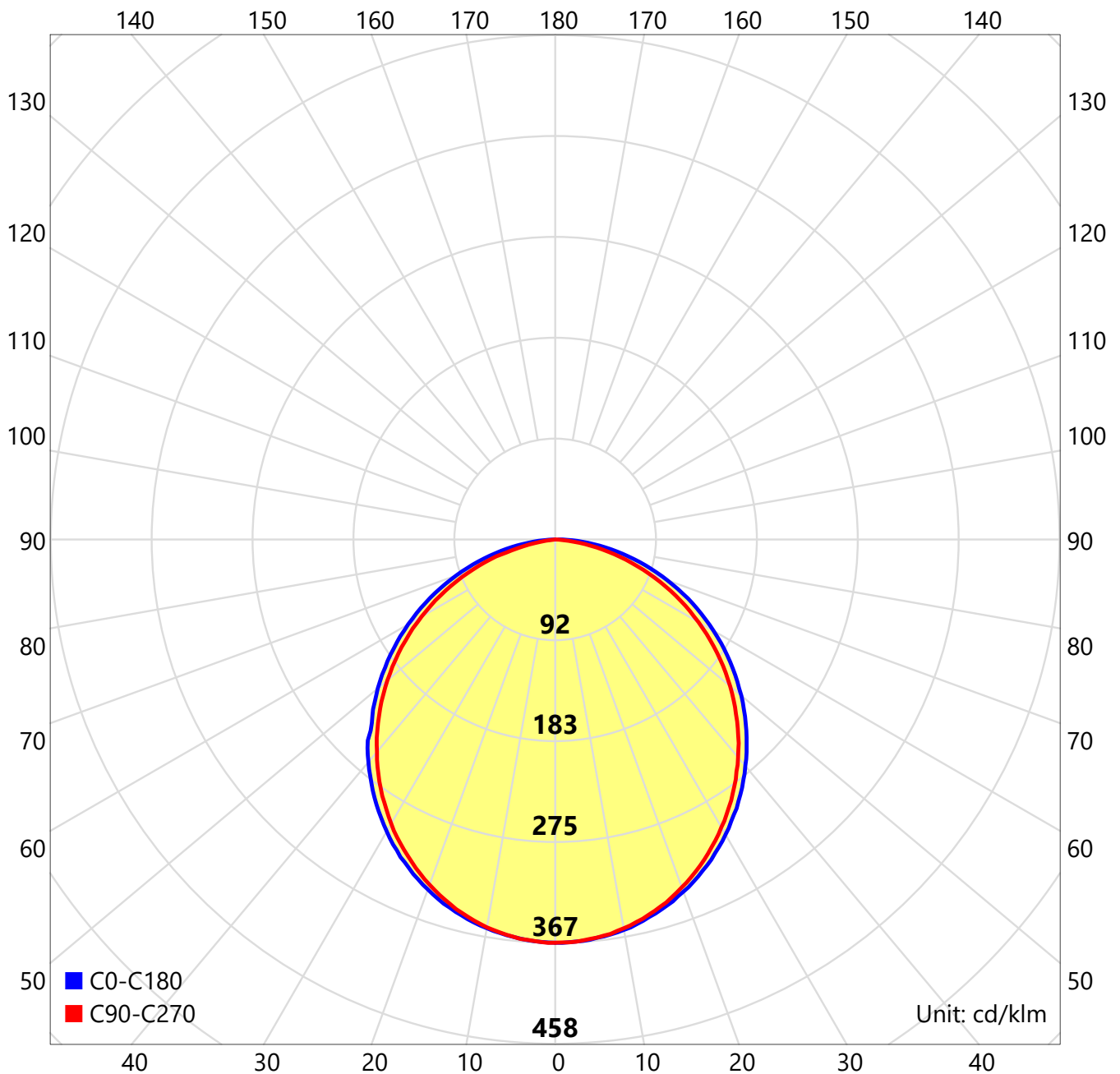
Test Type : Type C      Test Distance : 7.922 m      C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0  
Test Device : Lisun LSG-1800A      Temperature : 21.0°C      Humidity : 22.0%  
Test Lab :  
Test By : Gubarev S. S.      Review By :

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### Light Distribution Curve (cd/klm)



Line 600mm 6000K/MagLight

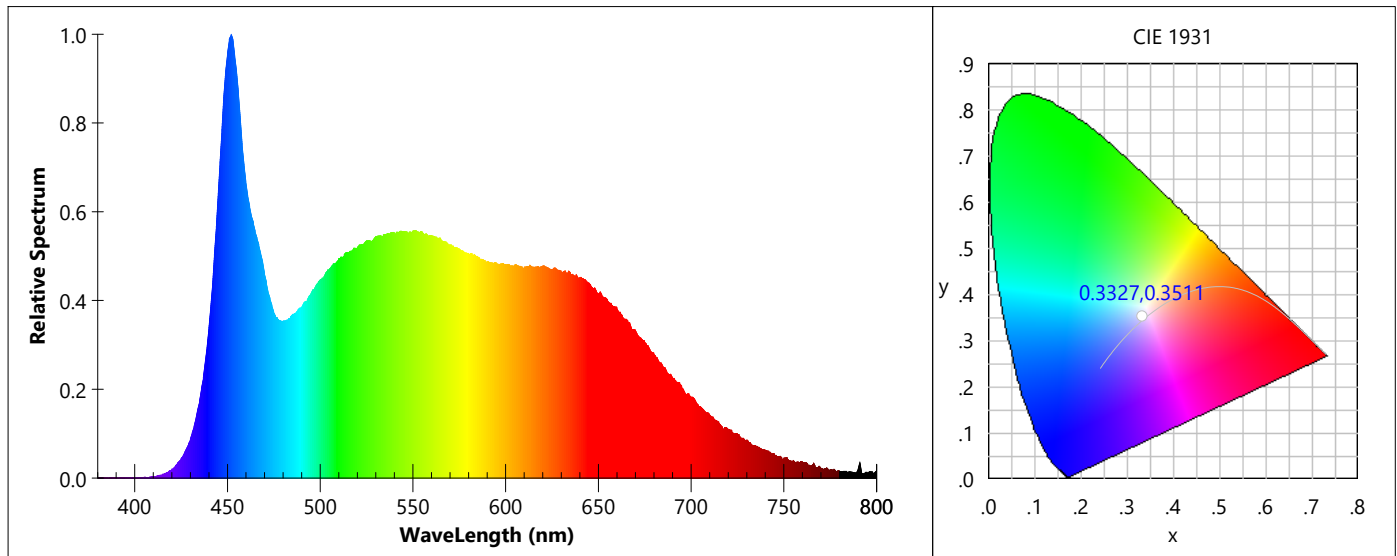
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## Color Properties



### Colorimetric

CIE(x,y): 0.3327,0.3511      CIE(u,v): 0.2032,0.3217      CIE(u',v'): 0.2032,0.4826  
 CCT: 5494 K (Duv=0.004958 )      Dominant Wavelength: 552.8 nm      Color Purity: 0.052  
 Peak Wavelength: 452.0 nm      Half Width: 25.3 nm      Color Ratio: R:0.160, G:0.782, B:0.058

Color Render Index: Ra: 93.4

R1: 93	R2: 95	R3: 95	R4: 93	R5: 92	R6: 91	R7: 97	R8: 91
R9: 75	R10: 88	R11: 95	R12: 69	R13: 94	R14: 98	R15: 92	

Color Quality Scale: Qa: 92.2 , Qf: 92.0 , Qp: 92.3 , Qg: 97.4

Q1: 93	Q2: 99	Q3: 87	Q4: 85	Q5: 89	Q6: 91	Q7: 94	Q8: 96
Q9: 98	Q10: 95	Q11: 94	Q12: 95	Q13: 95	Q14: 93	Q15: 93	

TM-30-18: Rf: 91 , Rg: 98

### Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 22.666 umol/s	Photosynthetic Photon Efficacy (Kp): 1.099 umol/J
Photosynthetic Active Radiant Flux (Фe): 4.891 W	Photosynthetic Radiant Efficiency (ηe): 0.237
Photons Flux (400~500nm): 5.247 umol/s	Photons Flux (500~600nm): 9.309 umol/s
Photons Flux (600~700nm): 8.110 umol/s	Photons Flux (PFfr 700~800nm): 1.456 umol/s
Photons Flux (PFuv 280~400nm): 0.001 umol/s	Photons Flux (PF_PBAR): 24.123 umol/s
Radiant Flux (400~500nm): 1.355 W	Radiant Flux (500~600nm): 2.027 W
Radiant Flux (600~700nm): 1.509 W	Radiant Flux (700~800nm): 0.239 W
Radiant Flux (280~400nm): 0.000 W	R/B: 1.1      R/FR: 6.3
YPF (320~800nm): 19.556 umol/s	YPF (400~500nm): 3.786 umol/s
YPF (500~600nm): 7.994 umol/s	YPF (600~700nm): 7.480 umol/s
YPF (700~800nm): 0.294 umol/s	YPF (320~400nm): 0.001 umol/s
Radiant Flux (Chl-A): 0.358 W	Radiant Flux (Chl-B): 0.777 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 :