

Report No. : 195

Test Time : 2025-01-30 12:26:40

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## SELECTA Goniophotometer Test Report

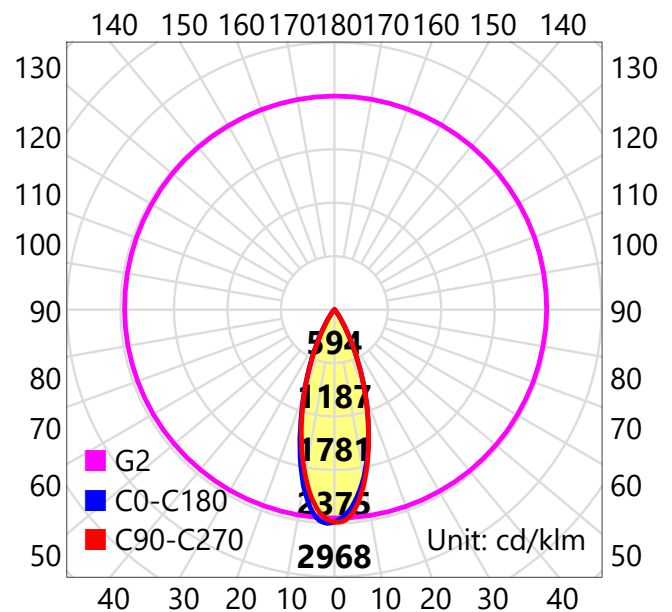
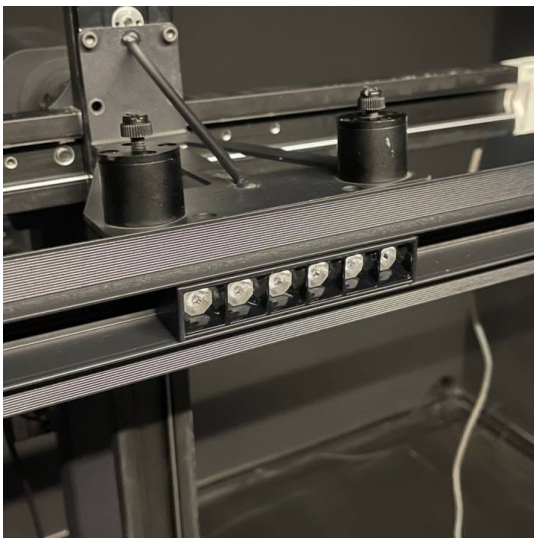
### Product Info

Luminaire Category : **MagLight**Luminaire : **LINE UGR 111мм 6500K 48v**Lamp Category : **MagLight**Lamp : **LINE UGR 111мм 6500K 48v**Manufacturer : **Selecta**Submitter : **Gubarev S. S.**Nuber of Lamps : **1**Lumens per Lamp : **0 lm**Luminous Length : **111 mm**Luminous Width : **22 mm**Luminous Height : **43 mm**

### Electric Parameters

Voltage : **219.90 V** Current : **0.0770 A** Power : **6.74 W** Power Factor : **0.398** Frequency : **49.98 Hz**

### Photometric Parameters

CIE Class : **Direct**Measurement Flux : **486.7 lm**Upward Ratio : **0.00 %**Maximum Intensity : **2374.68 cd/klm**Central Intensity : **2359.34 cd/klm**Luminaire Efficacy Rating (LER) : **72**Beam Angle (C0-C180,C90-C270) : **36.0 °, 35.7 °**Field Angle (C0-C180,C90-C270) : **61.8 °, 61.8 °**Total Rated Lamp Lumens : **486.7 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C180° γ2°**S/MH(C0-C180,C90-C270) : **0.59, 0.58**Energy Efficiency Class : **G (EU 2019/2015 η<sub>TM</sub>:83lm/W)**Beam Angle (C45-C225,C135-C315) : **36.1 °, 35.8 °**Field Angle (C45-C225,C135-C315) : **65.3 °, 65.1 °**

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.

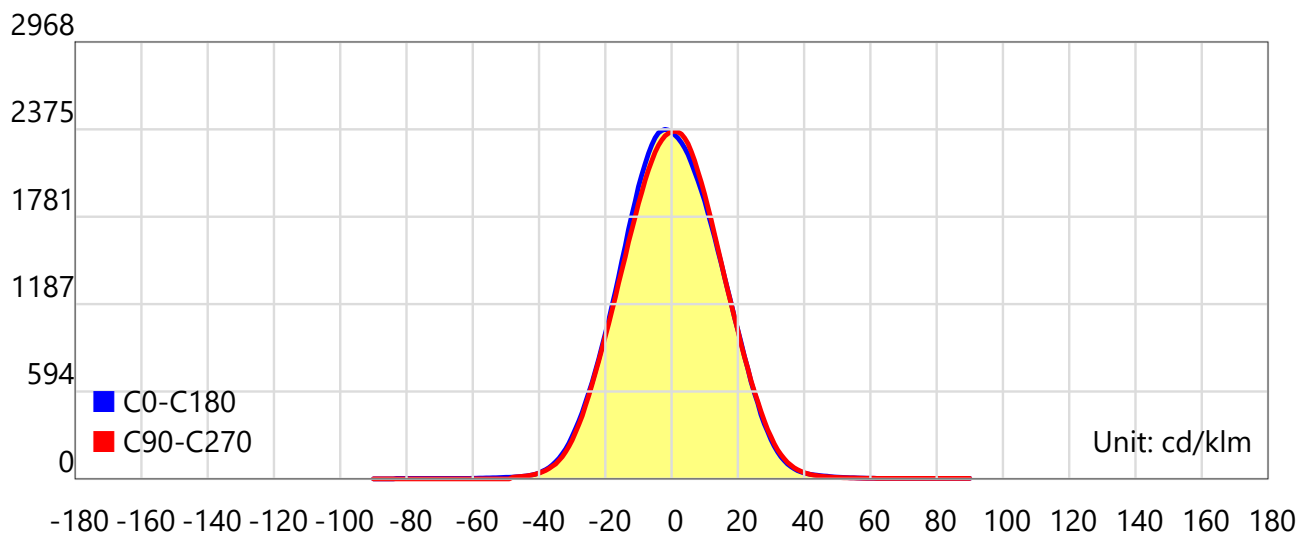
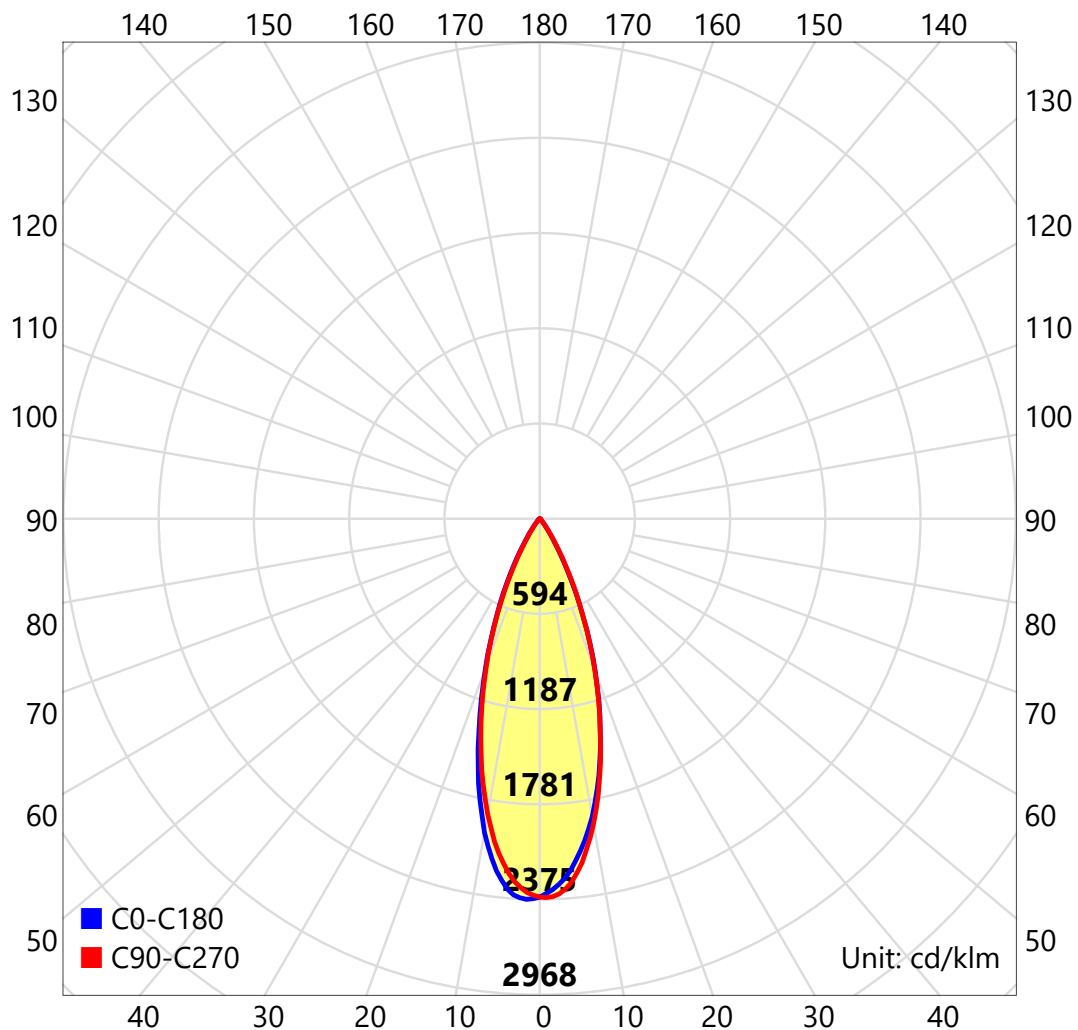
Review By :

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## Light Distribution Curve



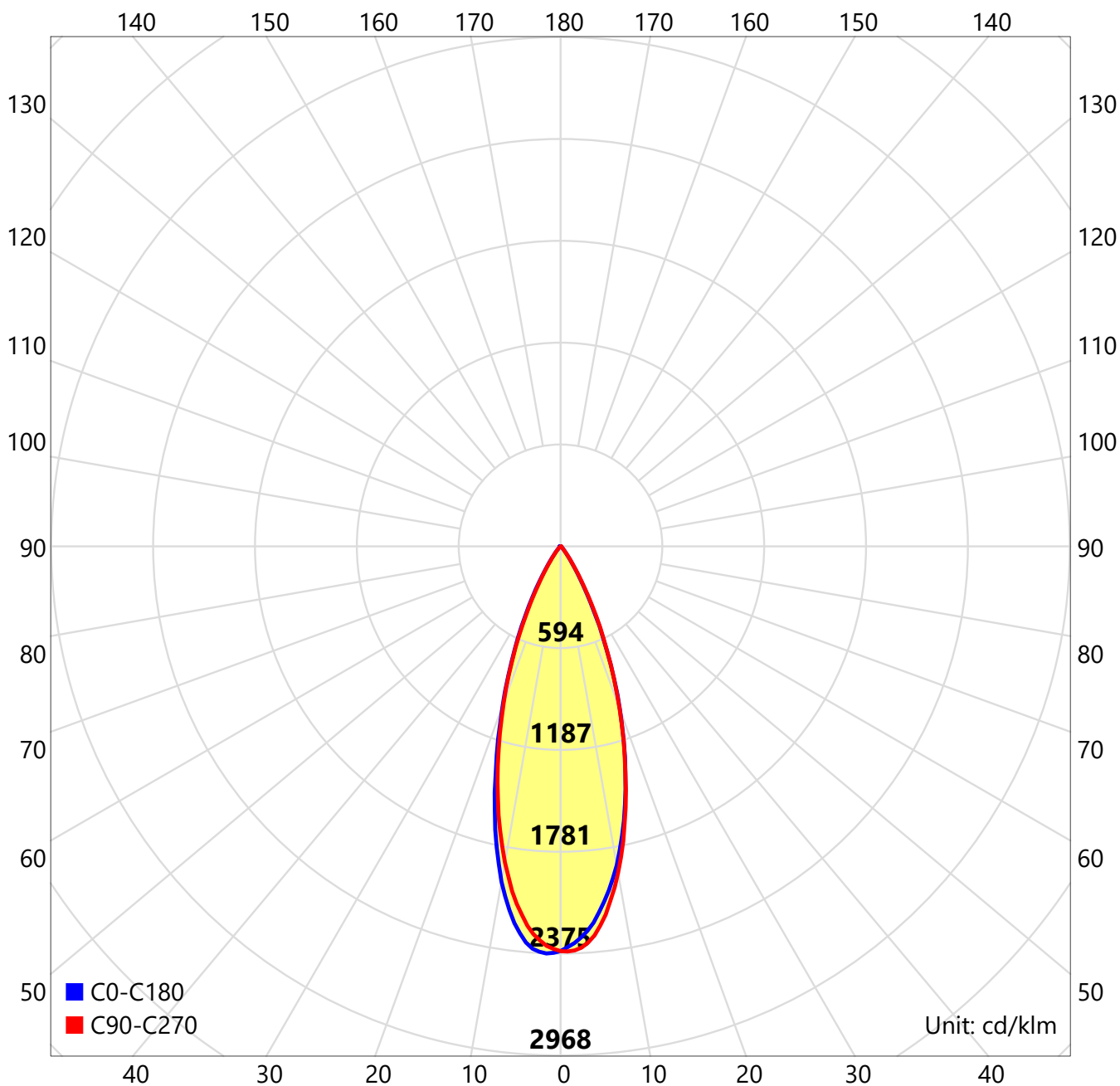
Test Type : Type C      Test Distance : 7.922 m      C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0  
Test Device : Lisun LSG-1800A      Temperature : 21.0°C      Humidity : 22.0%  
Test Lab :  
Test By : Gubarev S. S.      Review By :

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### Light Distribution Curve (cd/klm)



LINE UGR 111mm 6500K 48v/MagLight

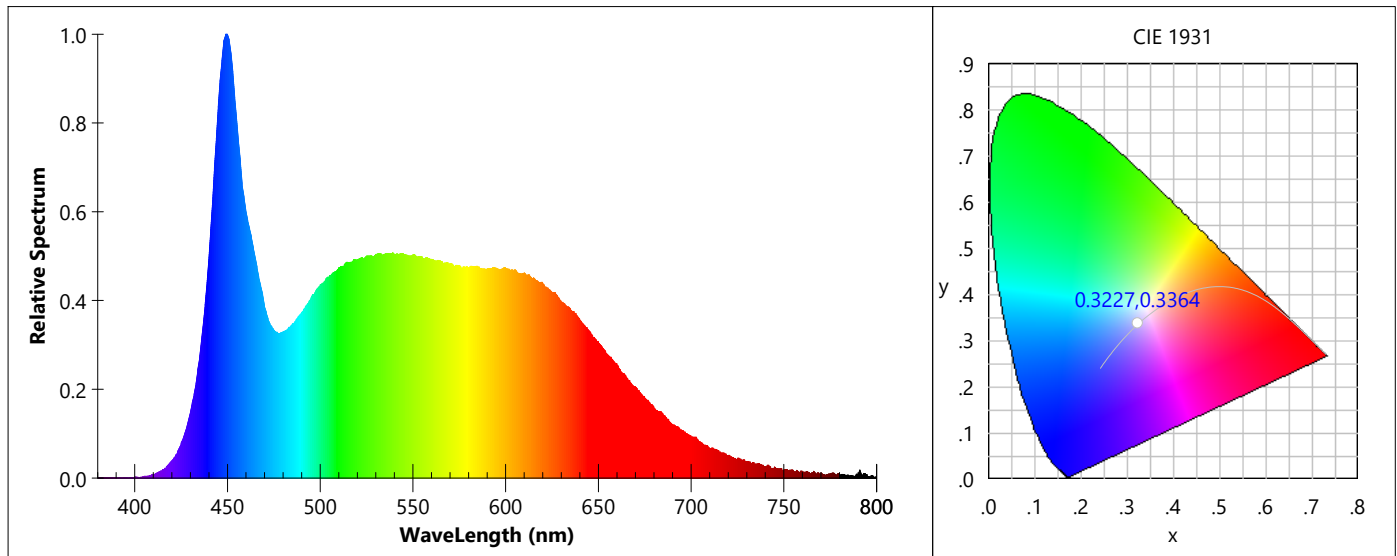
$\eta=100\%$

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## Color Properties



### Colorimetric

CIE(x,y): 0.3227,0.3364

CIE(u,v): 0.2020,0.3158

CIE(u',v'): 0.2020,0.4737

CCT: 5956 K (Duv=0.002099 )

Dominant Wavelength: 495.5 nm

Color Purity: 0.034

Peak Wavelength: 449.4 nm

Half Width: 24.8 nm

Color Ratio: R:0.156, G:0.784, B:0.060

Color Render Index: Ra: 92.4

R1: 93	R2: 95	R3: 95	R4: 93	R5: 92	R6: 91	R7: 94	R8: 86
R9: 58	R10: 87	R11: 95	R12: 72	R13: 94	R14: 97	R15: 91	

Color Quality Scale: Qa: 90.7 , Qf: 90.4 , Qp: 91.6 , Qg: 97.5

Q1: 91	Q2: 99	Q3: 85	Q4: 84	Q5: 90	Q6: 93	Q7: 94	Q8: 96
Q9: 98	Q10: 93	Q11: 92	Q12: 92	Q13: 92	Q14: 87	Q15: 89	

TM-30-18: Rf: 90 , Rg: 99

### Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 7.380 umol/s  
 Photosynthetic Active Radiant Flux (Фe): 1.620 W  
 Photons Flux (400~500nm): 1.953 umol/s  
 Photons Flux (600~700nm): 2.270 umol/s  
 Photons Flux (PFuv 280~400nm): 0.001 umol/s  
 Radiant Flux (400~500nm): 0.507 W  
 Radiant Flux (600~700nm): 0.426 W  
 Radiant Flux (280~400nm): 0.000 W  
 YPF (320~800nm): 6.312 umol/s  
 YPF (500~600nm): 2.712 umol/s  
 YPF (700~800nm): 0.051 umol/s  
 Radiant Flux (Chl-A): 0.114 W

Photosynthetic Photon Efficacy (Kp): 1.095 umol/J  
 Photosynthetic Radiant Efficiency (ηe): 0.240  
 Photons Flux (500~600nm): 3.158 umol/s  
 Photons Flux (PFfr 700~800nm): 0.245 umol/s  
 Photons Flux (PF\_PBAR): 7.626 umol/s  
 Radiant Flux (500~600nm): 0.688 W  
 Radiant Flux (700~800nm): 0.040 W  
 R/B: 0.8 R/FR: 10.6  
 YPF (400~500nm): 1.415 umol/s  
 YPF (600~700nm): 2.134 umol/s  
 YPF (320~400nm): 0.000 umol/s  
 Radiant Flux (Chl-B): 0.277 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 :