

Report No. : 187

Test Time : 2025-01-28 18:10:16

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## SELECTA Goniophotometer Test Report

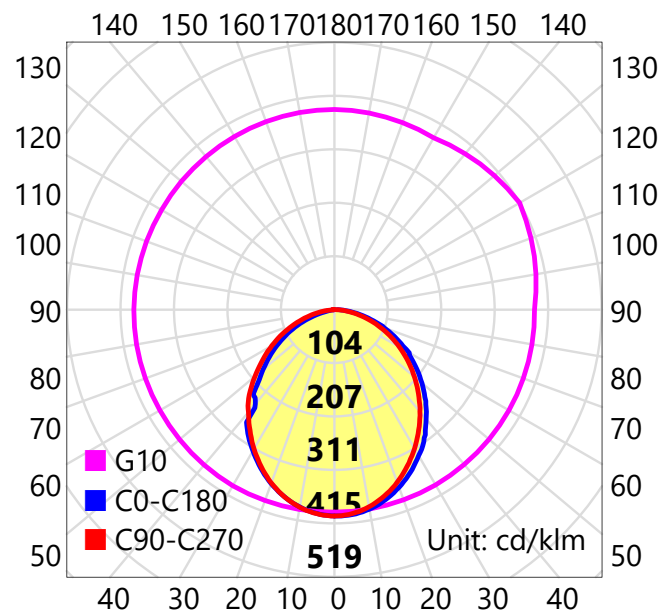
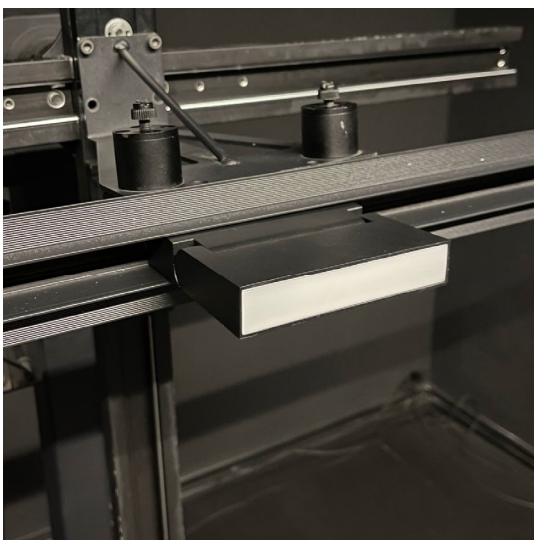
### Product Info

Luminaire Category : **MagLight**Luminaire : **SPIN LINE 111мм 6W 2700K 48v**Lamp Category : **MagLight**Lamp : **SPIN LINE 111мм 6W 2700K 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 : **115 mm**

### Electric Parameters

Voltage : **219.90 V** Current : **0.0780 A** Power : **6.86 W** Power Factor : **0.400** Frequency : **49.96 Hz**

### Photometric Parameters

CIE Class : **Direct**Measurement Flux : **190.7 lm**Upward Ratio : **0.00 %**Maximum Intensity : **414.92 cd/klm**Central Intensity : **400.34 cd/klm**Luminaire Efficacy Rating (LER) : **28**Beam Angle (C0-C180,C90-C270) : **100.6 °, 100.6 °**Field Angle (C0-C180,C90-C270) : **154.5 °, 157.8 °**Total Rated Lamp Lumens : **190.7 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C120° γ10°**S/MH(C0-C180,C90-C270) : **1.20, 1.17**Energy Efficiency Class : **G (EU 2019/2015 η<sub>TM</sub>:27lm/W)**Beam Angle (C45-C225,C135-C315) : **100.5 °, 102.5 °**Field Angle (C45-C225,C135-C315) : **153.3 °, 156.3 °**

Average Beam Angle (50%): 100.9°

Test Type : Type C

Test Distance : 7.922 m

C Plane (°): 0.0-360.0:30.0 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.

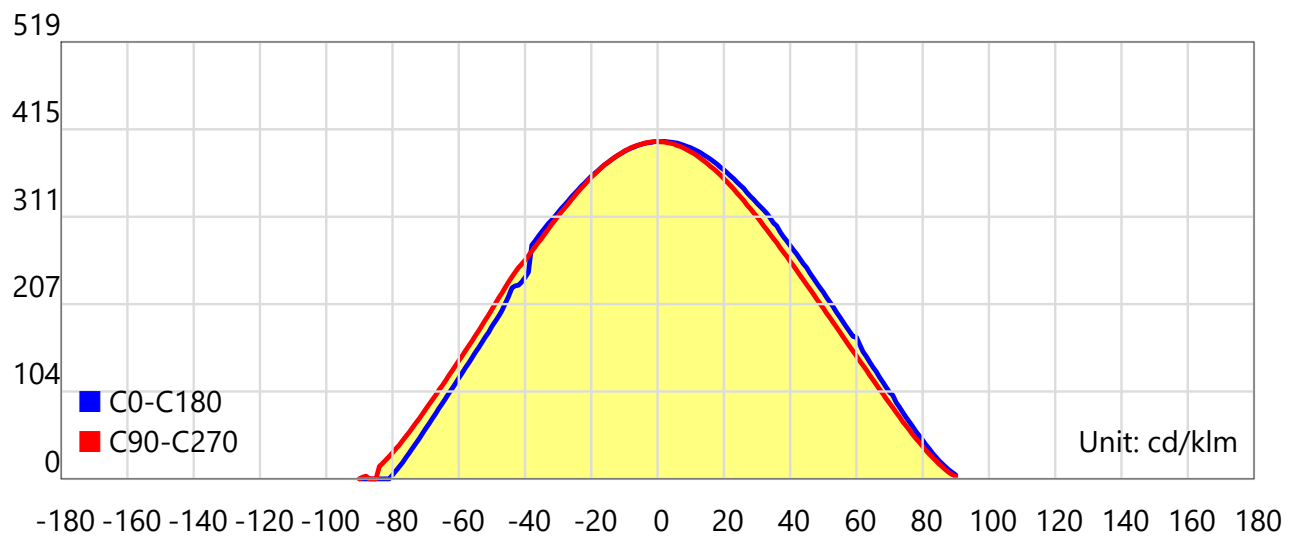
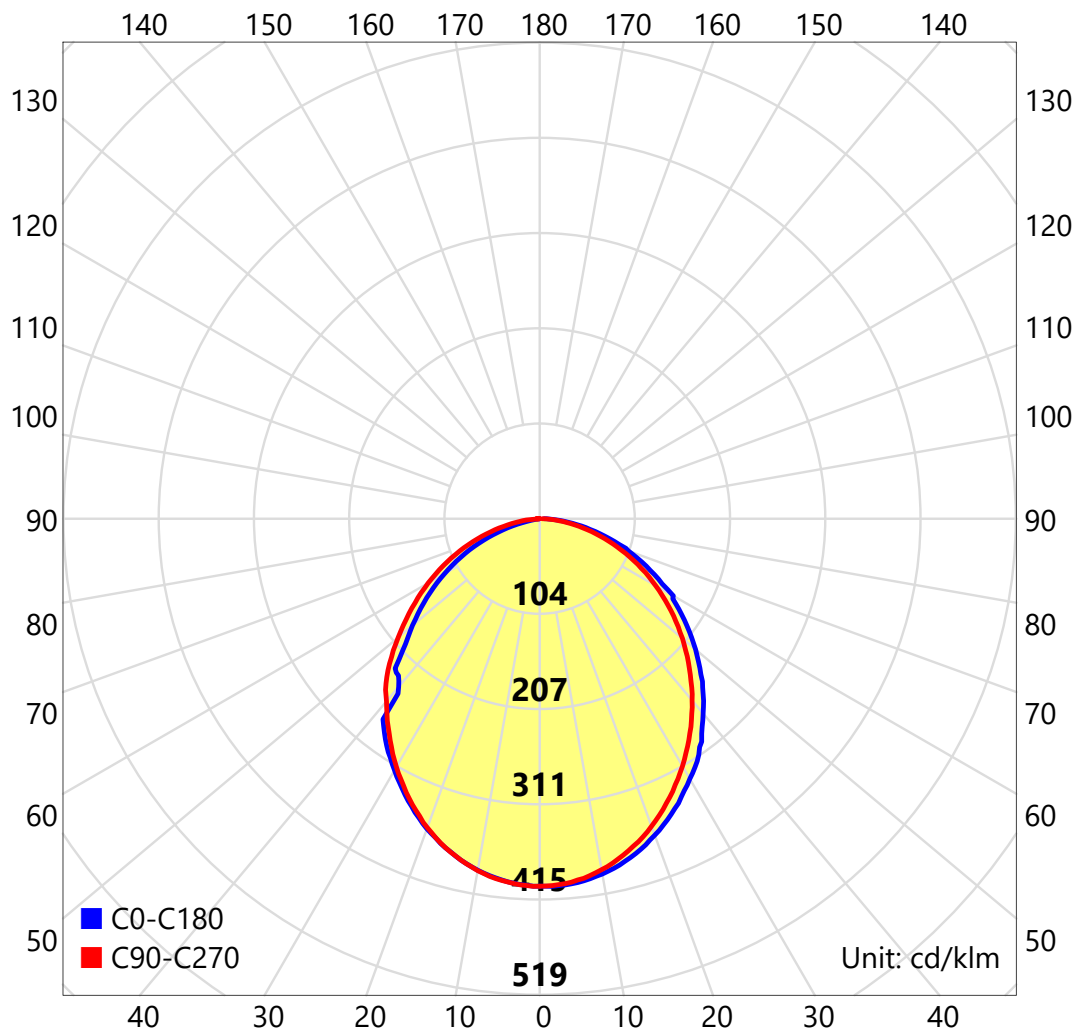
Review By :

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## Light Distribution Curve



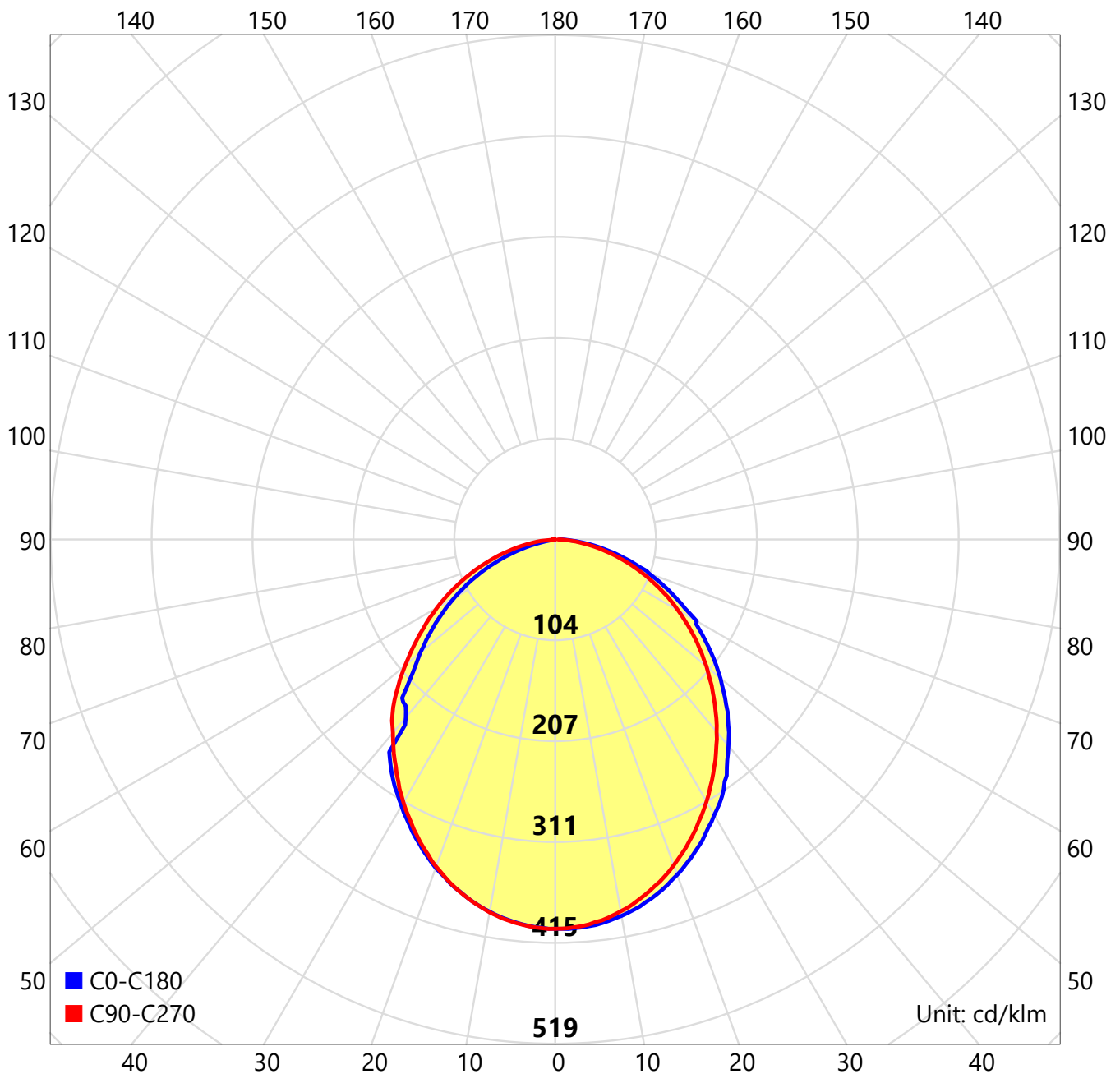
Test Type : Type C      Test Distance : 7.922 m      C Plane (°): 0.0-360.0:30.0γ (°) : 0.0-90.0:1.0  
Test Device : Lisun LSG-1800A      Temperature : 21.0°C      Humidity : 22.0%  
Test Lab :  
Test By : Gubarev S. S.      Review By :

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### Light Distribution Curve (cd/klm)



SPIN LINE 111mm 6W 2700K 48v/MagLight

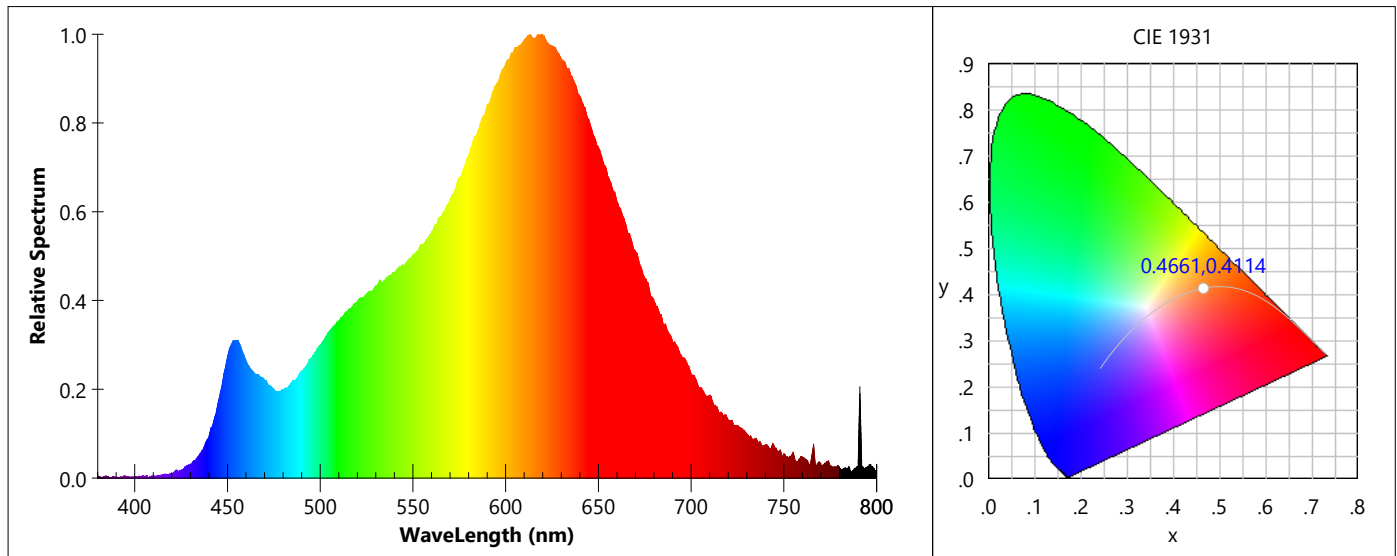
$\eta=100\%$

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## Color Properties



### Colorimetric

CIE(x,y): 0.4661,0.4114

CIE(u,v): 0.2662,0.3524

CIE(u',v'): 0.2662,0.5286

CCT: 2621 K (Duv=-0.000174 )

Dominant Wavelength: 584.7 nm

Color Purity: 0.634

Peak Wavelength: 612.8 nm

Half Width: 121.7 nm

Color Ratio: R:0.270, G:0.704, B:0.026

Color Render Index: Ra: 90.1

R1: 91	R2: 98	R3: 95	R4: 90	R5: 92	R6: 97	R7: 86	R8: 71
R9: 41	R10: 95	R11: 98	R12: 87	R13: 93	R14: 98	R15: 84	

Color Quality Scale: Qa: 88.9 , Qf: 89.2 , Qp: 90.7 , Qg: 92.0

Q1: 83	Q2: 93	Q3: 92	Q4: 90	Q5: 91	Q6: 92	Q7: 91	Q8: 92
Q9: 94	Q10: 95	Q11: 94	Q12: 91	Q13: 89	Q14: 81	Q15: 82	

TM-30-18: Rf: 90 , Rg: 96

### Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 2.995 umol/s  
 Photosynthetic Active Radiant Flux (Фe): 0.608 W  
 Photons Flux (400~500nm): 0.250 umol/s  
 Photons Flux (600~700nm): 1.633 umol/s  
 Photons Flux (PFuv 280~400nm): 0.001 umol/s  
 Radiant Flux (400~500nm): 0.064 W  
 Radiant Flux (600~700nm): 0.305 W  
 Radiant Flux (280~400nm): 0.000 W  
 YPF (320~800nm): 2.737 umol/s  
 YPF (500~600nm): 0.989 umol/s  
 YPF (700~800nm): 0.041 umol/s  
 Radiant Flux (Chl-A): 0.052 W

Photosynthetic Photon Efficacy (Kp): 0.437 umol/J  
 Photosynthetic Radiant Efficiency (ηe): 0.089  
 Photons Flux (500~600nm): 1.112 umol/s  
 Photons Flux (PFfr 700~800nm): 0.211 umol/s  
 Photons Flux (PF\_PBAR): 3.207 umol/s  
 Radiant Flux (500~600nm): 0.238 W  
 Radiant Flux (700~800nm): 0.035 W  
 R/B: 4.8      R/FR: 8.8  
 YPF (400~500nm): 0.179 umol/s  
 YPF (600~700nm): 1.528 umol/s  
 YPF (320~400nm): 0.000 umol/s  
 Radiant Flux (Chl-B): 0.060 W

Test Type : Type C

Test Distance : 7.922 m

C Plane (°): 0.0-360.0:30.0γ (°) : 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 :