

Report No. : 191

Test Time : 2025-01-29 10:02:57

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## SELECTA Goniophotometer Test Report

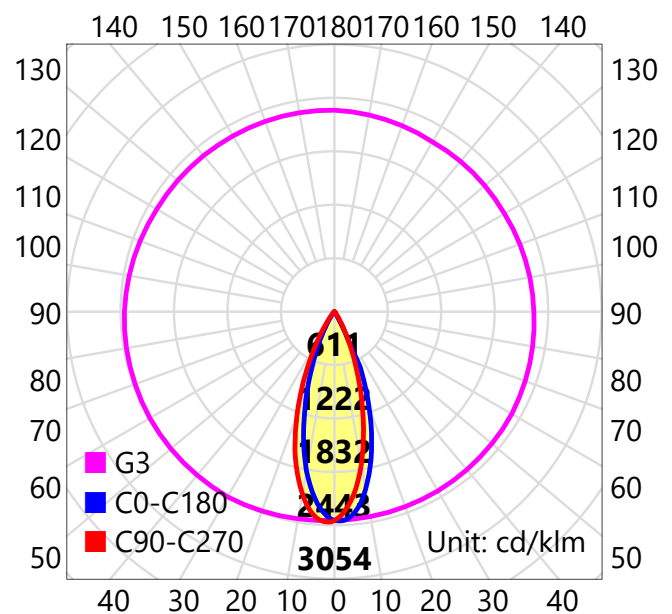
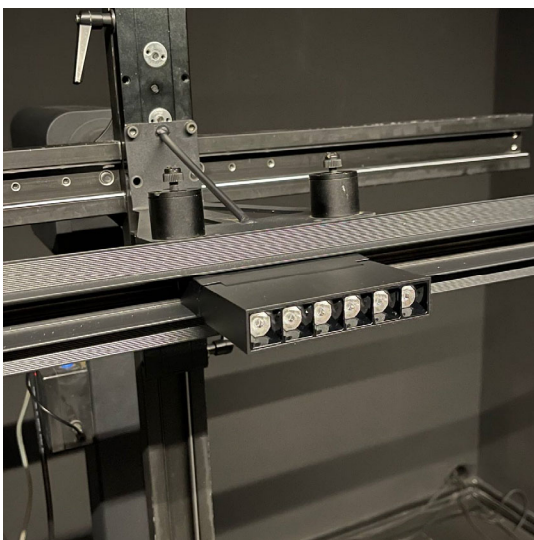
### Product Info

Luminaire Category : **MagLight**Luminaire : **SPIN LINE UGR 111мм 6W 4000K 48v**Lamp Category : **MagLight**Lamp : **SPIN LINE UGR 111мм 6W 4000K 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 : **220.00 V** Current : **0.0750 A** Power : **6.58 W** Power Factor : **0.398** Frequency : **49.99 Hz**

### Photometric Parameters

CIE Class : **Direct**Measurement Flux : **471.2 lm**Upward Ratio : **0.00 %**Maximum Intensity : **2443.25 cd/klm**Central Intensity : **2387.22 cd/klm**Luminaire Efficacy Rating (LER) : **72**Beam Angle (C0-C180,C90-C270) : **36.2 °, 36.1 °**Field Angle (C0-C180,C90-C270) : **57.0 °, 61.5 °**Total Rated Lamp Lumens : **471.2 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C330° γ3°**S/MH(C0-C180,C90-C270) : **0.59, 0.59**Energy Efficiency Class : **G (EU 2019/2015 η<sub>TM</sub>:83lm/W)**Beam Angle (C45-C225,C135-C315) : **36.1 °, 36.1 °**Field Angle (C45-C225,C135-C315) : **63.5 °, 63.4 °**

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.

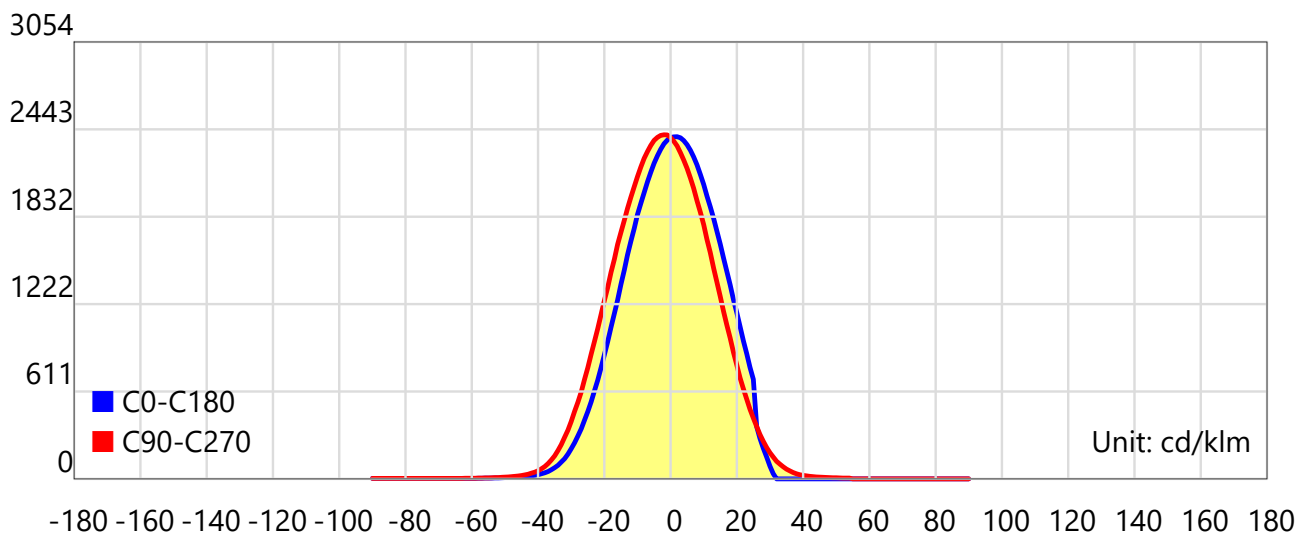
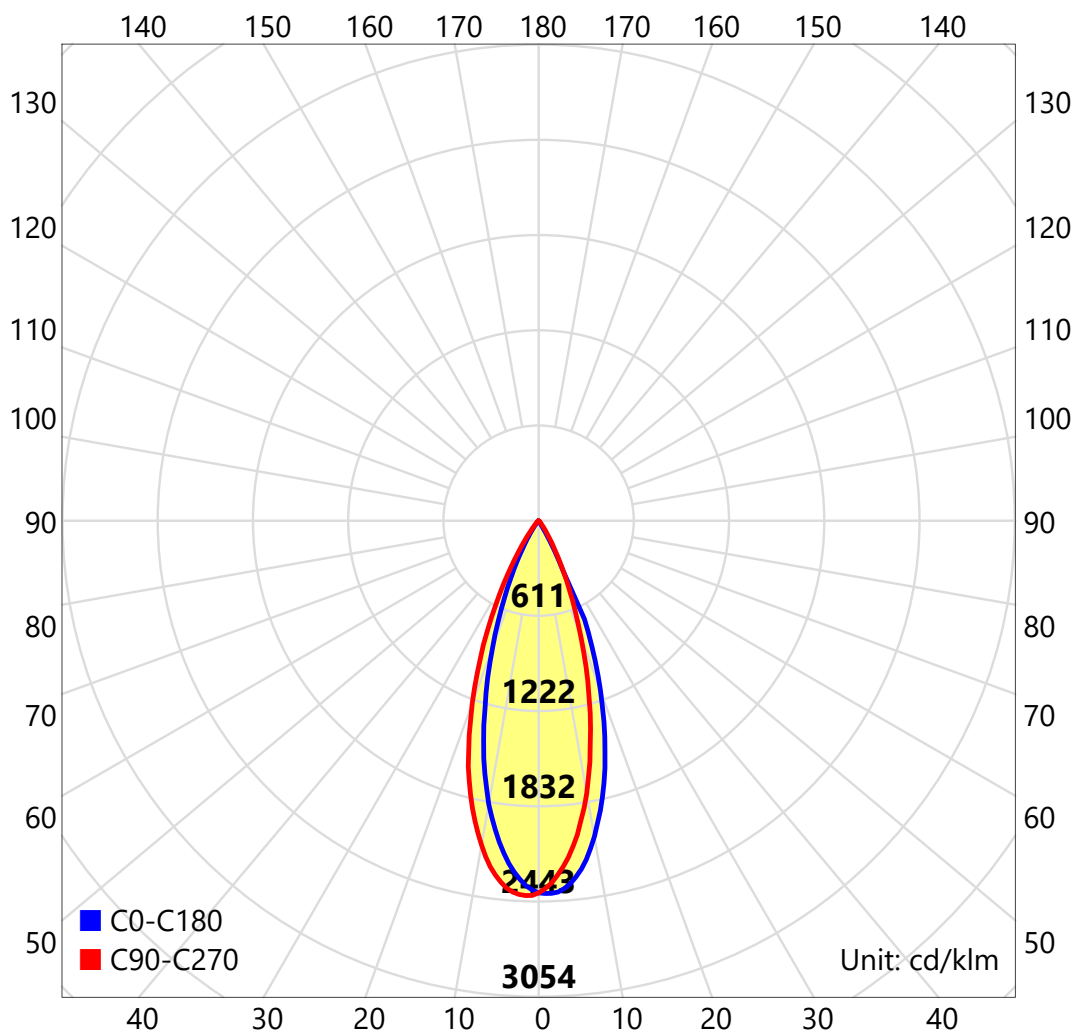
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## Light Distribution Curve

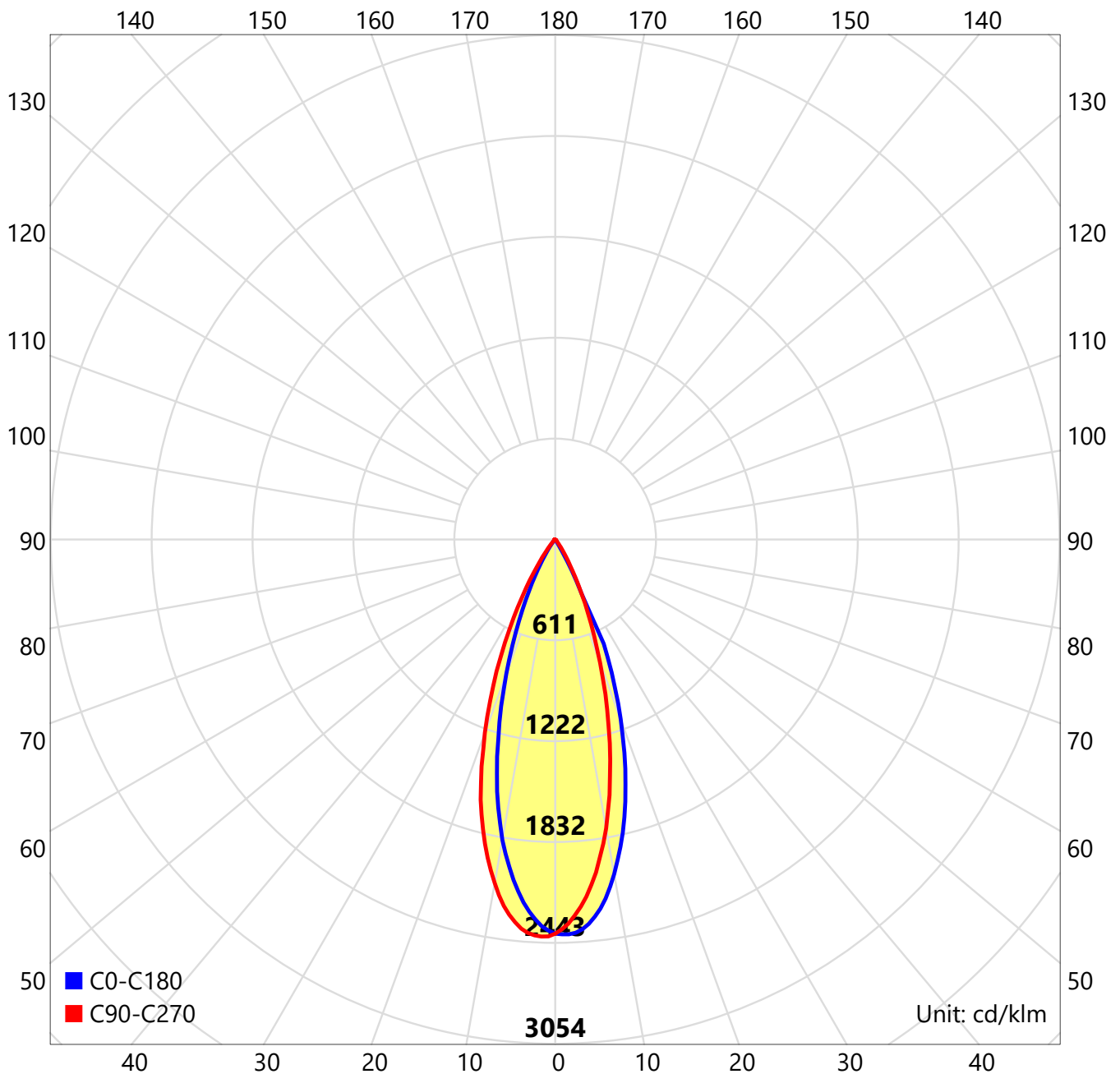


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### Light Distribution Curve (cd/klm)



SPIN LINE UGR 111mm 6W 4000K 48v/MagLight

$\eta=100\%$

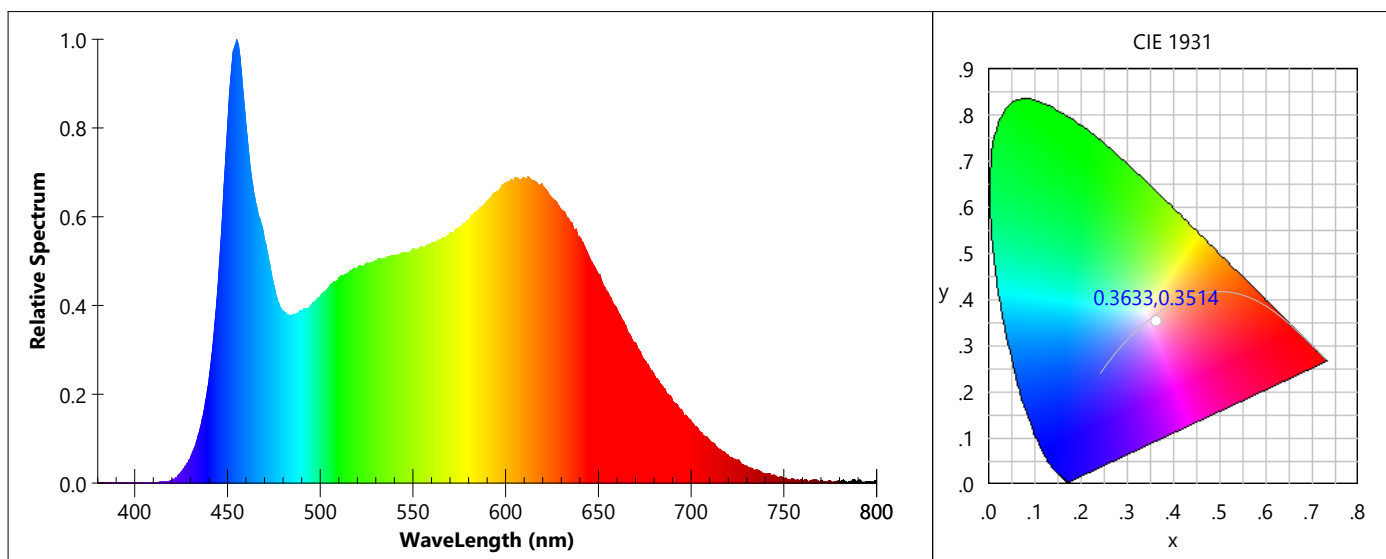
Test Type : Type C      Test Distance : 7.922 m      C Plane (°): 0.0-360.0:30.0γ (°): 0.0-90.0:1.0  
Test Device : Lisun LSG-1800A      Temperature : 21.0°C      Humidity : 22.0%  
Test Lab :  
Test By : Gubarev S. S.      Review By :

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## Color Properties



### Colorimetric

CIE(x,y): 0.3633,0.3514

CIE(u,v): 0.2239,0.3249

CIE(u',v'): 0.2239,0.4873

CCT: 4337 K (Duv=-0.006964)

Dominant Wavelength: 584.4 nm

Color Purity: 0.145

Peak Wavelength: 455.0 nm

Half Width: 26.7 nm

Color Ratio: R:0.201, G:0.744, B:0.055

Color Render Index: Ra: 92.7

R1: 96	R2: 95	R3: 95	R4: 94	R5: 95	R6: 91	R7: 89	R8: 87
R9: 76	R10: 93	R11: 95	R12: 73	R13: 97	R14: 98	R15: 96	

Color Quality Scale: Qa: 92.0 , Qf: 91.5 , Qp: 93.2 , Qg: 98.6

Q1: 88	Q2: 97	Q3: 90	Q4: 86	Q5: 89	Q6: 92	Q7: 97	Q8: 96
Q9: 99	Q10: 98	Q11: 96	Q12: 94	Q13: 93	Q14: 91	Q15: 90	

TM-30-18: Rf: 89 , Rg: 98

### Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 7.344 umol/s  
 Photosynthetic Active Radiant Flux (Фe): 1.570 W  
 Photons Flux (400~500nm): 1.568 umol/s  
 Photons Flux (600~700nm): 2.869 umol/s  
 Photons Flux (PFuv 280~400nm): 0.000 umol/s  
 Radiant Flux (400~500nm): 0.403 W  
 Radiant Flux (600~700nm): 0.538 W  
 Radiant Flux (280~400nm): 0.000 W  
 YPF (320~800nm): 6.408 umol/s  
 YPF (500~600nm): 2.529 umol/s  
 YPF (700~800nm): 0.055 umol/s  
 Radiant Flux (Chl-A): 0.111 W

Photosynthetic Photon Efficacy (Kp): 1.116 umol/J  
 Photosynthetic Radiant Efficiency (ηe): 0.239  
 Photons Flux (500~600nm): 2.906 umol/s  
 Photons Flux (PFfr 700~800nm): 0.218 umol/s  
 Photons Flux (PF\_PBAR): 7.562 umol/s  
 Radiant Flux (500~600nm): 0.629 W  
 Radiant Flux (700~800nm): 0.036 W  
 R/B: 1.3      R/FR: 14.8  
 YPF (400~500nm): 1.127 umol/s  
 YPF (600~700nm): 2.697 umol/s  
 YPF (320~400nm): 0.000 umol/s  
 Radiant Flux (Chl-B): 0.241 W

Test Type : Type C

Test Distance : 7.922 m

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Test Device : Lisun LSG-1800A

Temperature : 21.0°C      Humidity : 22.0%

Test Lab :

Test By : Gubarev S. S.

Review By :