

Report No. : 196

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SELECTA Goniophotometer Test Report

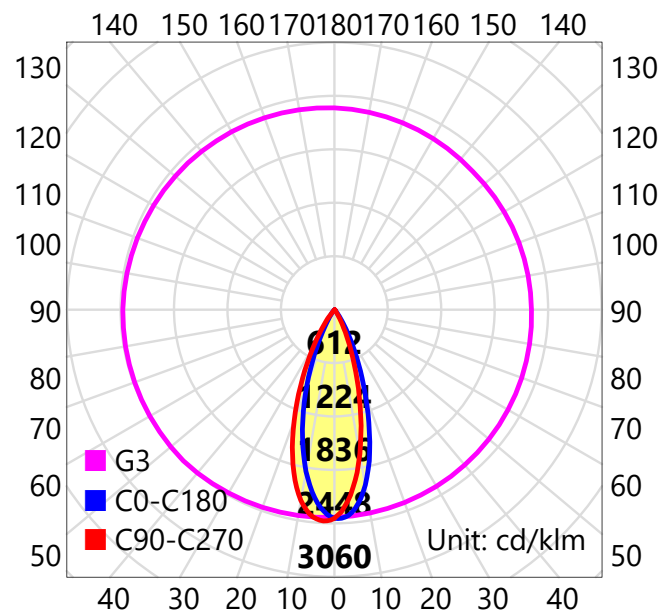
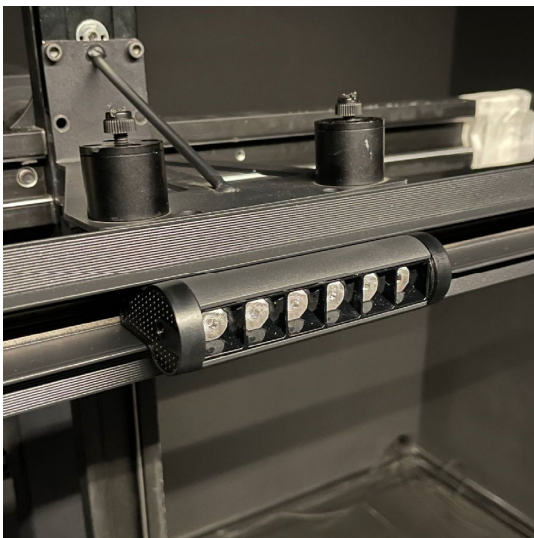
Product Info

Luminaire Category : **MagLight**Luminaire : **Spin Tubo UGR 127мм 4000K**Lamp Category : **MagLight**Lamp : **Spin Tubo UGR 127мм 4000K**Manufacturer : **Selecta**Submitter : **Gubarev S. S.**Nuber of Lamps : **1**Lumens per Lamp : **0 lm**Luminous Length : **127 mm**Luminous Width : **32 mm**Luminous Height : **72 mm**

Electric Parameters

Voltage : **219.90 V** Current : **0.0720 A** Power : **6.27 W** Power Factor : **0.394** Frequency : **49.96 Hz**

Photometric Parameters

CIE Class : **Direct**Measurement Flux : **504.5 lm**Upward Ratio : **0.00 %**Maximum Intensity : **2448.25 cd/klm**Central Intensity : **2387.86 cd/klm**Luminaire Efficacy Rating (LER) : **80**Beam Angle (C0-C180,C90-C270) : **35.7 °, 35.7 °**Field Angle (C0-C180,C90-C270) : **60.6 °, 60.9 °**Total Rated Lamp Lumens : **504.5 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C315° γ3°**S/MH(C0-C180,C90-C270) : **0.59, 0.59**Energy Efficiency Class : **F (EU 2019/2015 η_{TM}:93lm/W)**Beam Angle (C45-C225,C135-C315) : **35.7 °, 35.5 °**Field Angle (C45-C225,C135-C315) : **63.4 °, 63.3 °**

Average Beam Angle (50%): 35.7°

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.

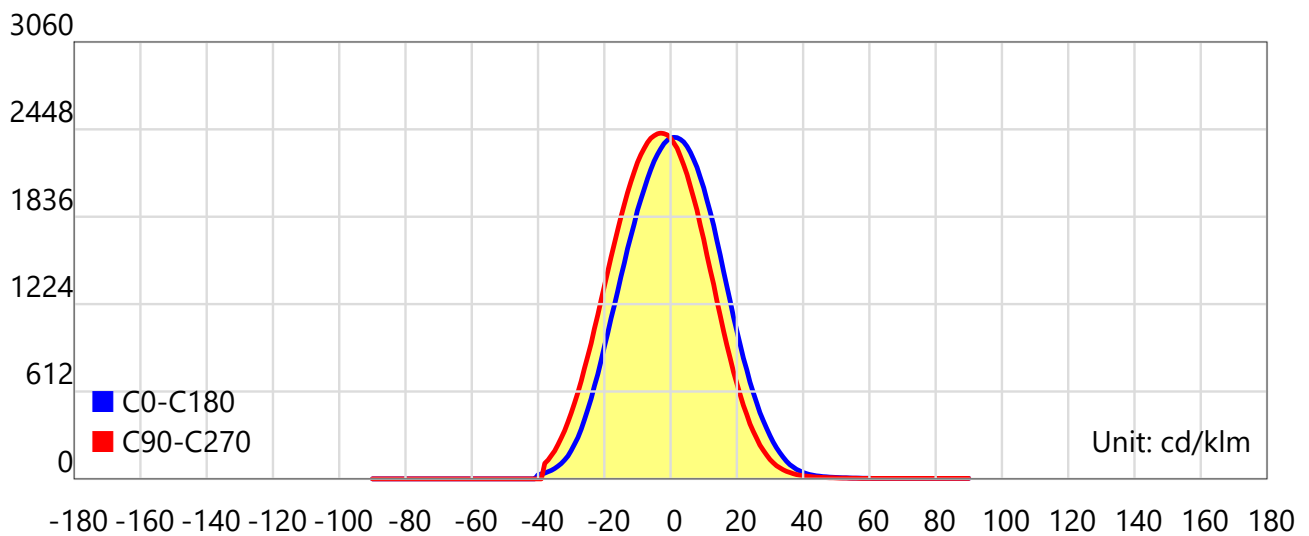
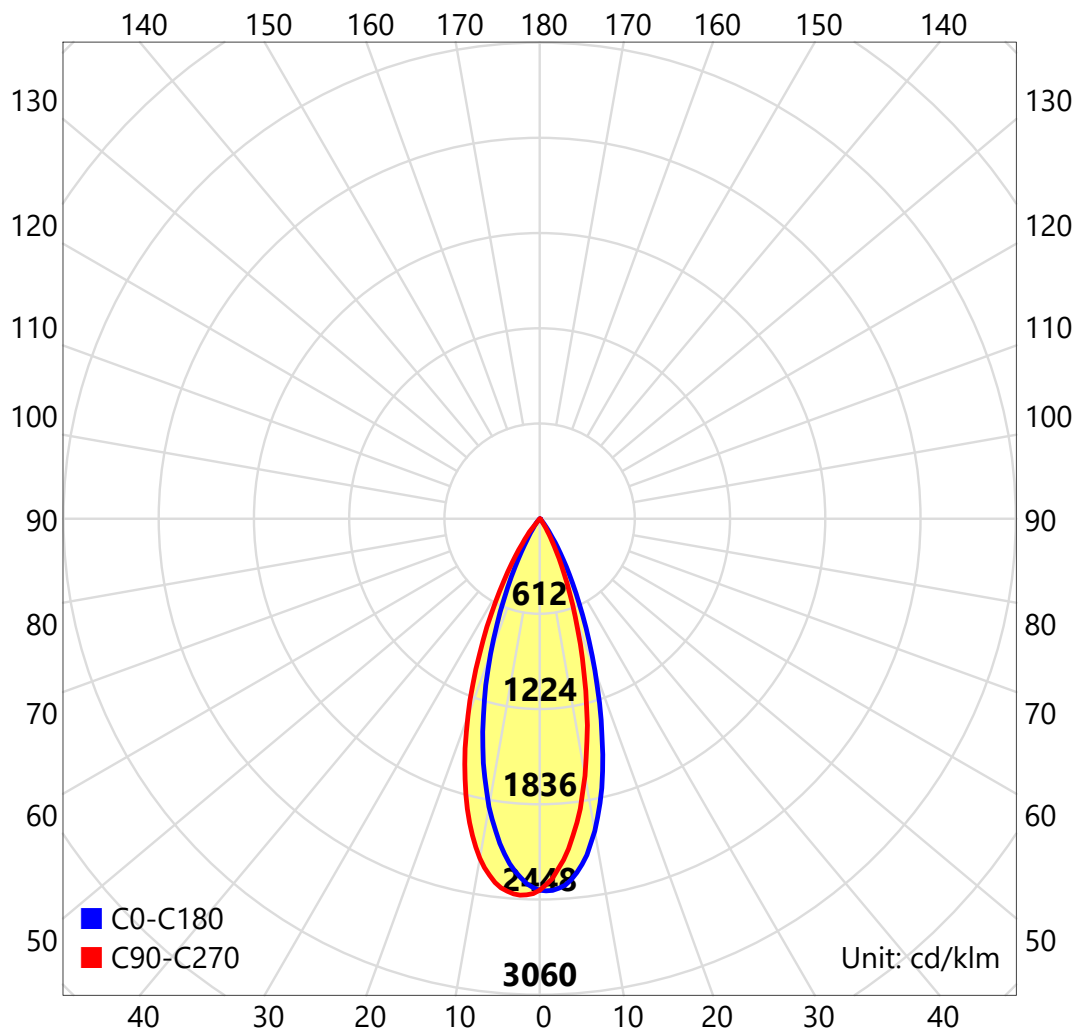
Review By :

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Light Distribution Curve



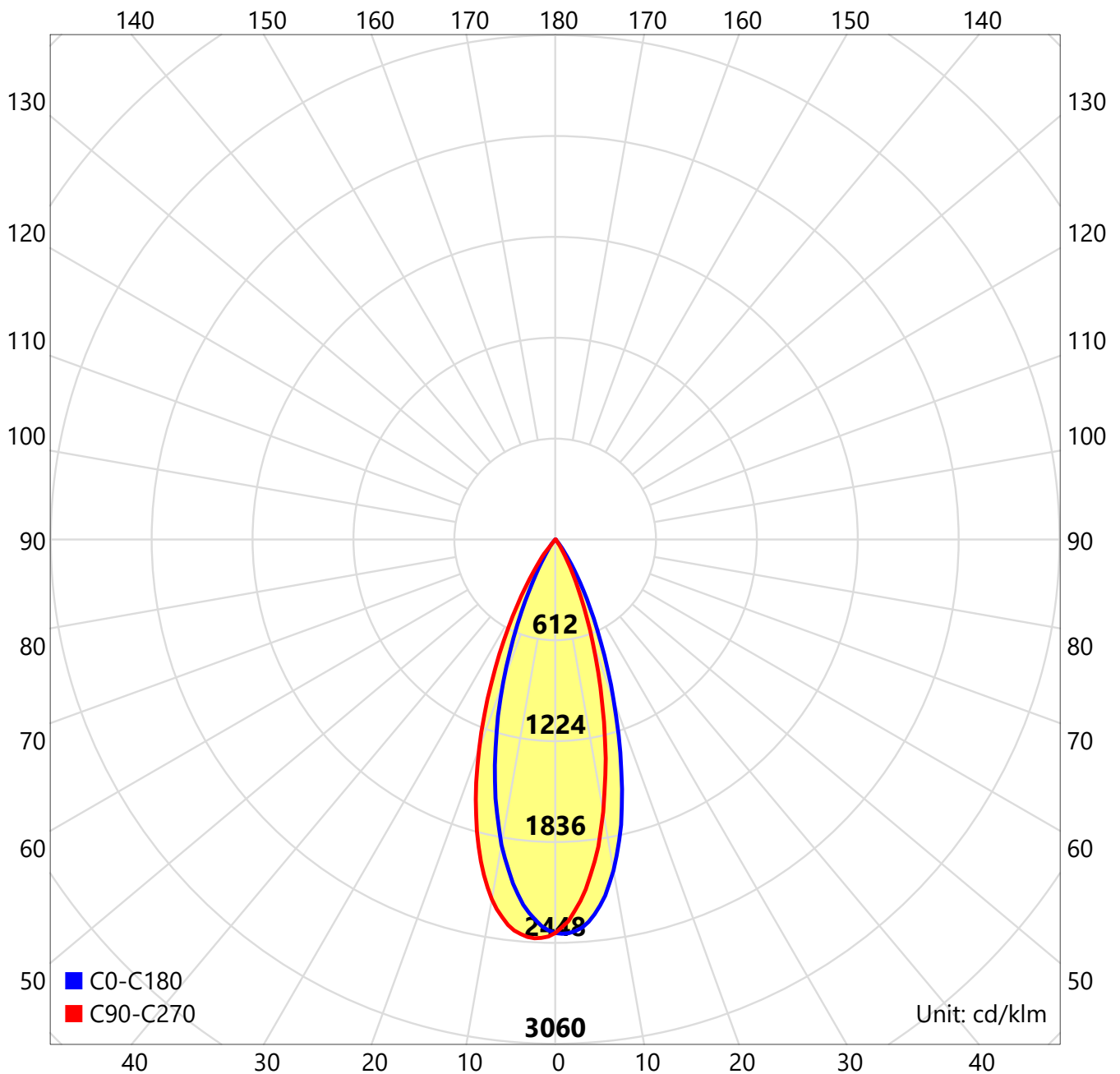
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



Spin Tubo UGR 127мм 4000K/MagLight

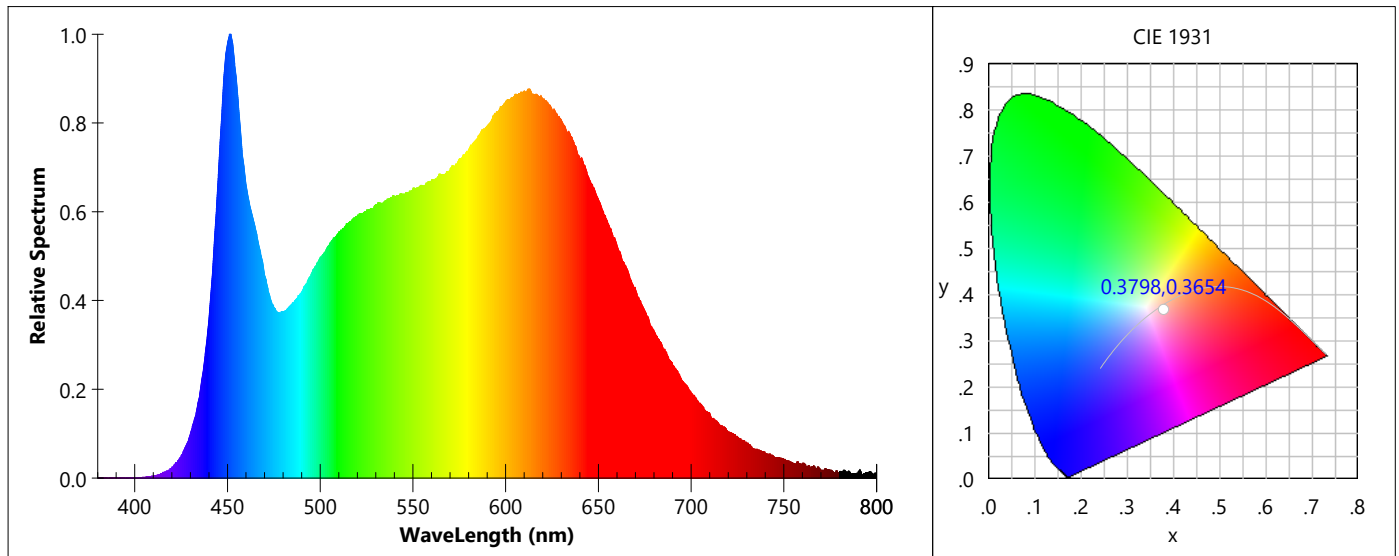
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Color Properties



Colorimetric

CIE(x,y): 0.3798,0.3654

CIE(u,v): 0.2293,0.3309

CIE(u',v'): 0.2293,0.4964

CCT: 3931 K (Duv=-0.005214)

Dominant Wavelength: 582.7 nm

Color Purity: 0.236

Peak Wavelength: 451.3 nm

Half Width: 25.8 nm

Color Ratio: R:0.209, G:0.745, B:0.046

Color Render Index: Ra: 94.9

R1: 97	R2: 98	R3: 98	R4: 96	R5: 97	R6: 94	R7: 92	R8: 86
R9: 70	R10: 98	R11: 98	R12: 79	R13: 99	R14: 100	R15: 95	

Color Quality Scale: Qa: 92.8 , Qf: 92.2 , Qp: 94.6 , Qg: 99.7

Q1: 91	Q2: 99	Q3: 88	Q4: 88	Q5: 93	Q6: 96	Q7: 95	Q8: 96
Q9: 100	Q10: 96	Q11: 95	Q12: 94	Q13: 93	Q14: 90	Q15: 91	

TM-30-18: Rf: 91 , Rg: 100

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 7.804 umol/s
 Photosynthetic Active Radiant Flux (Фe): 1.653 W
 Photons Flux (400~500nm): 1.426 umol/s
 Photons Flux (600~700nm): 3.265 umol/s
 Photons Flux (PFuv 280~400nm): 0.000 umol/s
 Radiant Flux (400~500nm): 0.368 W
 Radiant Flux (600~700nm): 0.611 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 6.881 umol/s
 YPF (500~600nm): 2.713 umol/s
 YPF (700~800nm): 0.077 umol/s
 Radiant Flux (Chl-A): 0.125 W

Photosynthetic Photon Efficacy (Kp): 1.245 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.264
 Photons Flux (500~600nm): 3.113 umol/s
 Photons Flux (PFfr 700~800nm): 0.366 umol/s
 Photons Flux (PF_PBAR): 8.171 umol/s
 Radiant Flux (500~600nm): 0.673 W
 Radiant Flux (700~800nm): 0.060 W
 R/B: 1.7 R/FR: 10.1
 YPF (400~500nm): 1.029 umol/s
 YPF (600~700nm): 3.062 umol/s
 YPF (320~400nm): 0.000 umol/s
 Radiant Flux (Chl-B): 0.234 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 :