

Report No. : 196

Test Time : 2025-02-01 18:41:59

Page 1 of 4

SELECTA Goniophotometer Test Report

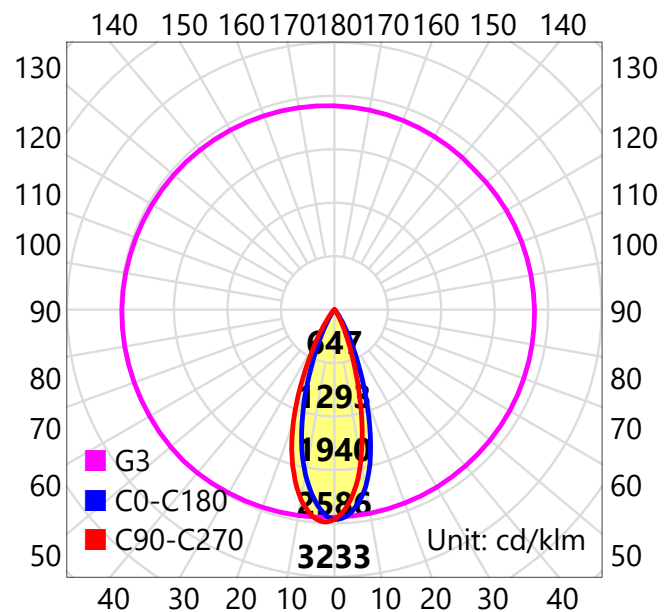
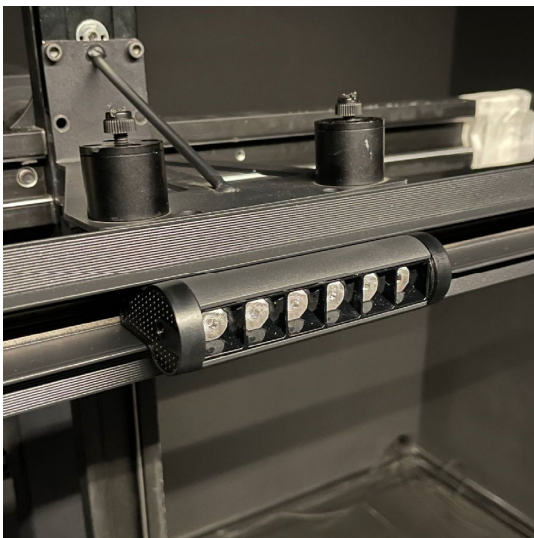
Product Info

Luminaire Category : **MagLight**Luminaire : **Spin Tubo UGR 127мм 2700K**Lamp Category : **MagLight**Lamp : **Spin Tubo UGR 127мм 2700K**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 : **0.0760 A** Power : **6.61 W** Power Factor : **0.396** Frequency : **49.96 Hz**

Photometric Parameters

CIE Class : **Direct**Measurement Flux : **421.7 lm**Upward Ratio : **0.00 %**Maximum Intensity : **2586.48 cd/klm**Central Intensity : **2537.40 cd/klm**Luminaire Efficacy Rating (LER) : **64**Beam Angle (C0-C180,C90-C270) : **36.0 °, 36.2 °**Field Angle (C0-C180,C90-C270) : **59.7 °, 60.0 °**Total Rated Lamp Lumens : **421.7 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 : **G (EU 2019/2015 η_{TM}:74lm/W)**Beam Angle (C45-C225,C135-C315) : **36.0 °, 33.4 °**Field Angle (C45-C225,C135-C315) : **56.9 °, 56.7 °**

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.

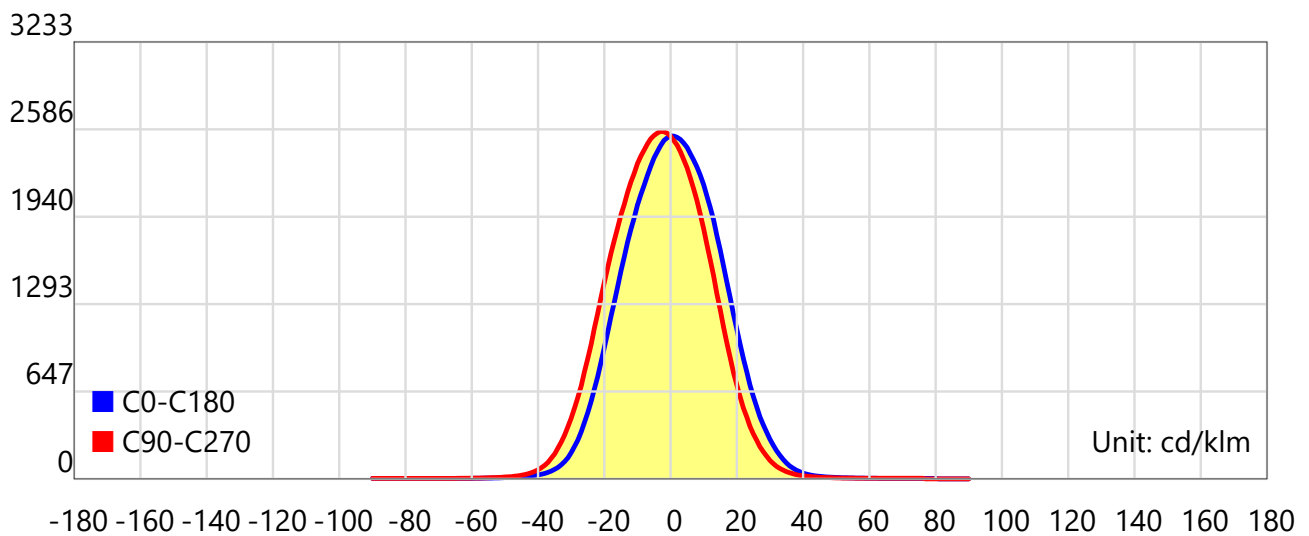
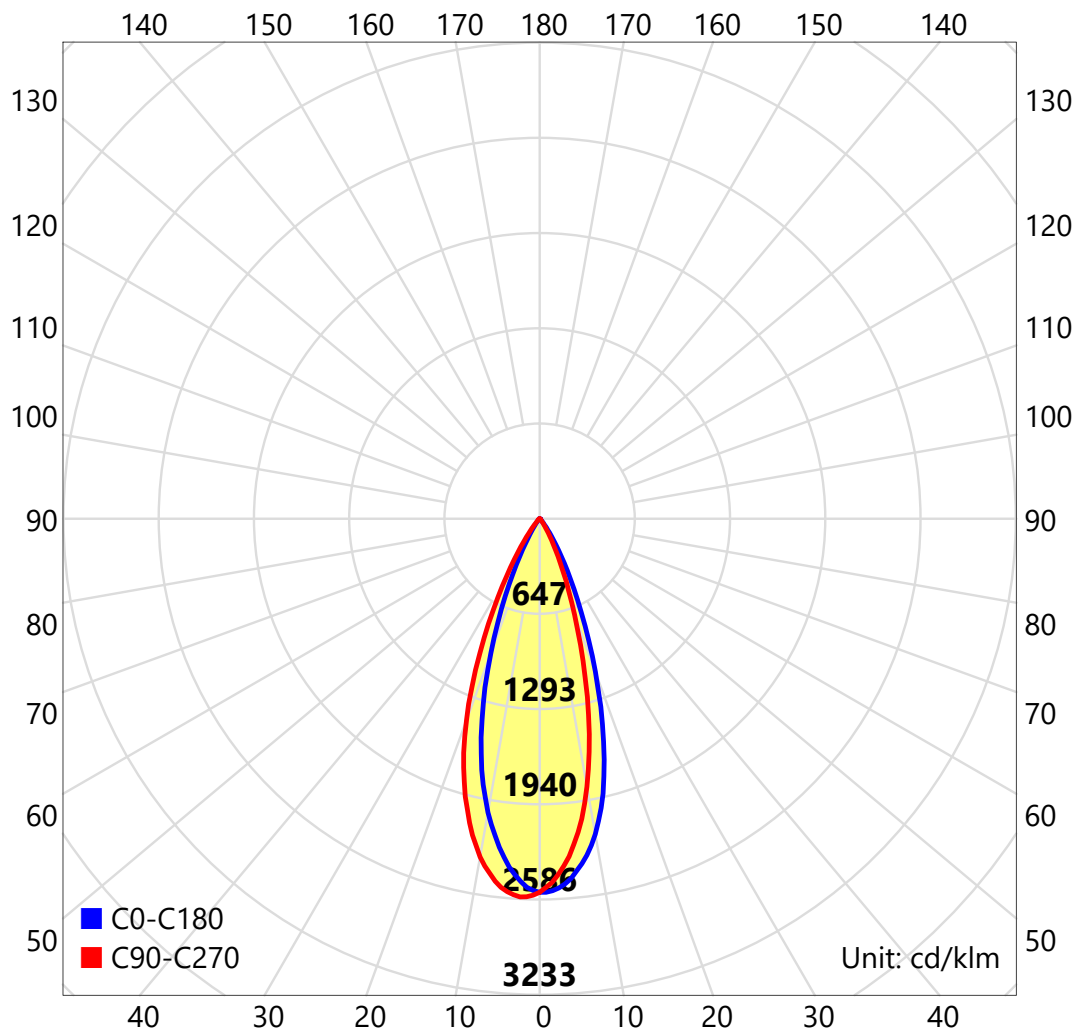
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Report No. : 196

Test Time : 2025-02-01 18:41:59

Page 2 of 4

Light Distribution Curve



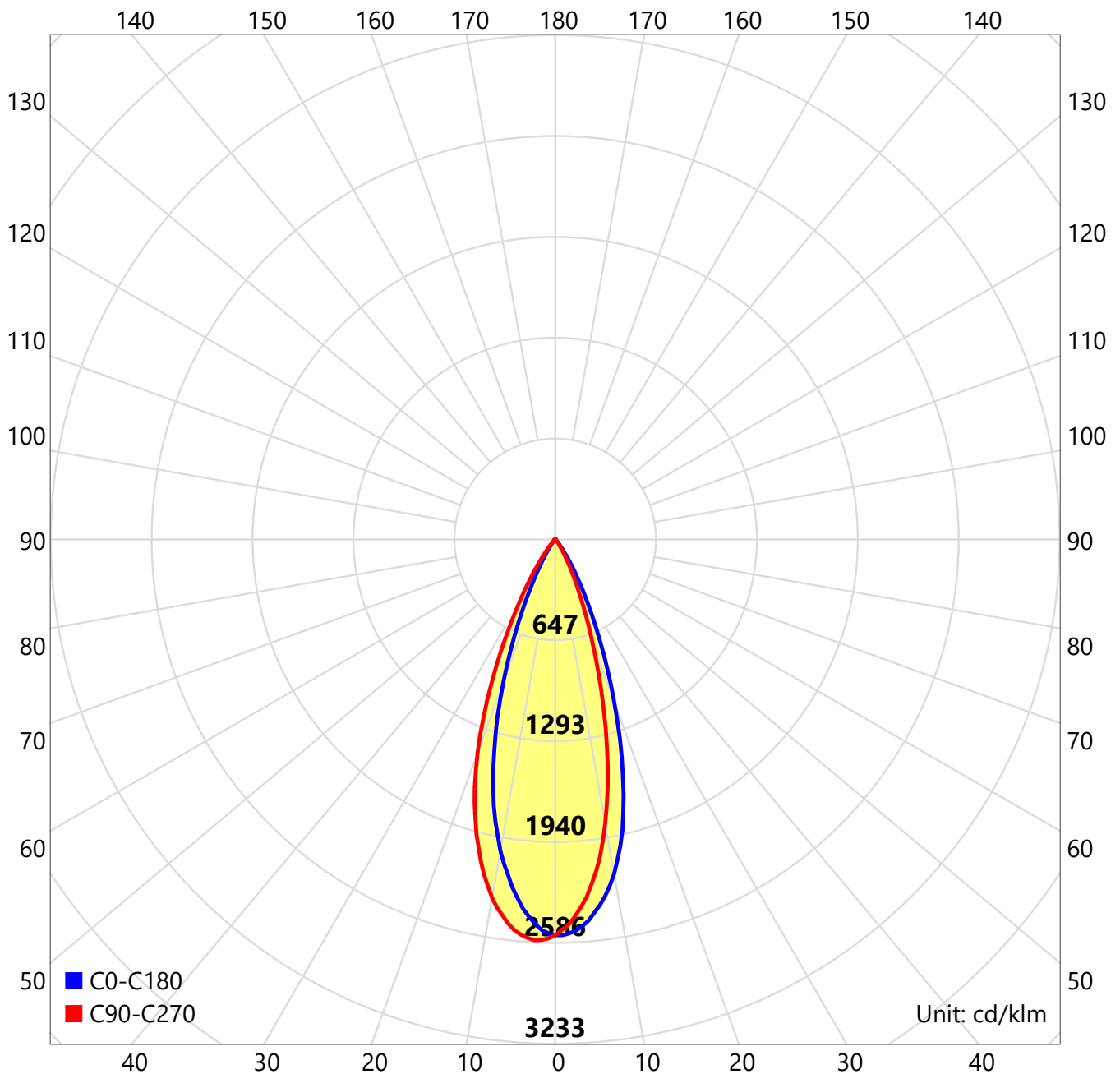
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

Report No. : 196

Test Time : 2025-02-01 18:41:59

Page 3 of 4

Light Distribution Curve (cd/klm)



Spin Tubo UGR 127мм 2700K/MagLight

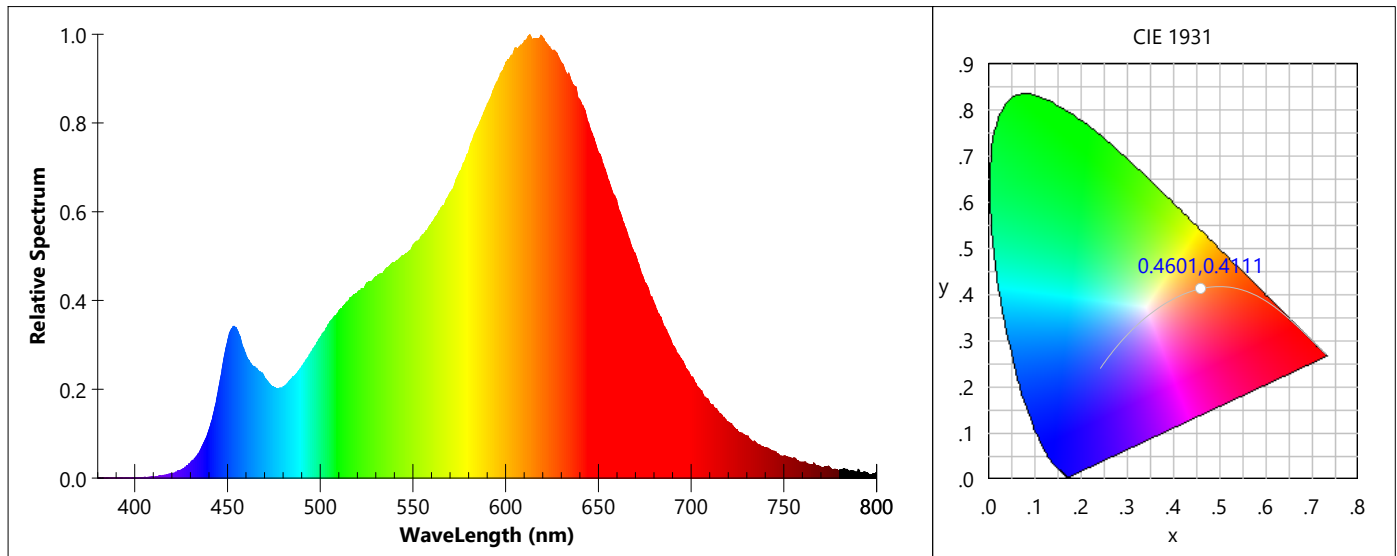
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Report No. : 196

Test Time : 2025-02-01 18:41:59

Page 4 of 4

Color Properties



Colorimetric

CIE(x,y): 0.4601,0.4111

CIE(u,v): 0.2624,0.3517

CIE(u',v'): 0.2624,0.5276

CCT: 2701 K (Duv=0.000159)

Dominant Wavelength: 584.2 nm

Color Purity: 0.615

Peak Wavelength: 612.8 nm

Half Width: 126.5 nm

Color Ratio: R:0.264, G:0.710, B:0.026

Color Render Index: Ra: 90.5

R1: 91	R2: 98	R3: 96	R4: 91	R5: 92	R6: 97	R7: 87	R8: 72
R9: 42	R10: 95	R11: 98	R12: 86	R13: 93	R14: 98	R15: 84	

Color Quality Scale: Qa: 89.5 , Qf: 89.7 , Qp: 90.7 , Qg: 92.4

Q1: 84	Q2: 93	Q3: 92	Q4: 90	Q5: 91	Q6: 92	Q7: 92	Q8: 92
Q9: 95	Q10: 96	Q11: 94	Q12: 92	Q13: 90	Q14: 82	Q15: 83	

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

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 6.557 umol/s
 Photosynthetic Active Radiant Flux (Фe): 1.334 W
 Photons Flux (400~500nm): 0.577 umol/s
 Photons Flux (600~700nm): 3.501 umol/s
 Photons Flux (PFuv 280~400nm): 0.000 umol/s
 Radiant Flux (400~500nm): 0.147 W
 Radiant Flux (600~700nm): 0.655 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 5.976 umol/s
 YPF (500~600nm): 2.199 umol/s
 YPF (700~800nm): 0.084 umol/s
 Radiant Flux (Chl-A): 0.113 W

Photosynthetic Photon Efficacy (Kp): 0.992 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.202
 Photons Flux (500~600nm): 2.479 umol/s
 Photons Flux (PFfr 700~800nm): 0.404 umol/s
 Photons Flux (PF_PBAR): 6.961 umol/s
 Radiant Flux (500~600nm): 0.532 W
 Radiant Flux (700~800nm): 0.066 W
 R/B: 4.4 R/FR: 9.9
 YPF (400~500nm): 0.413 umol/s
 YPF (600~700nm): 3.280 umol/s
 YPF (320~400nm): 0.000 umol/s
 Radiant Flux (Chl-B): 0.134 W

Test Type : Type C Test Distance : 7.922 m

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