

Report No. : 216

Test Time : 2025-02-16 12:14:00

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SELECTA Goniophotometer Test Report

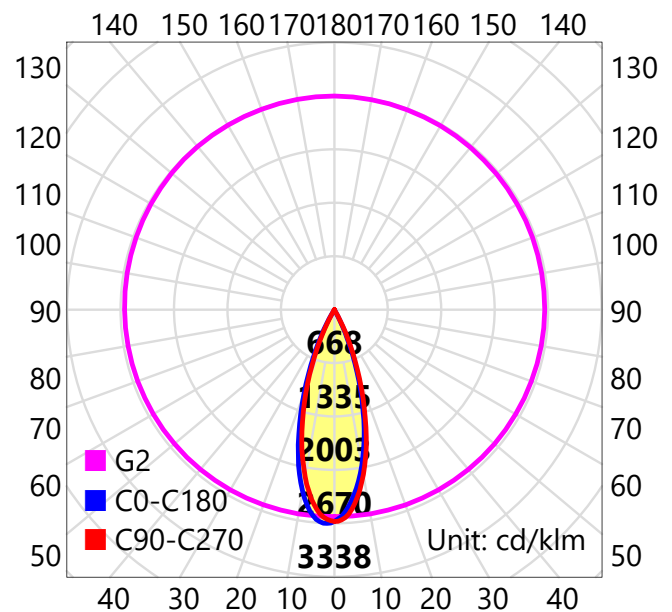
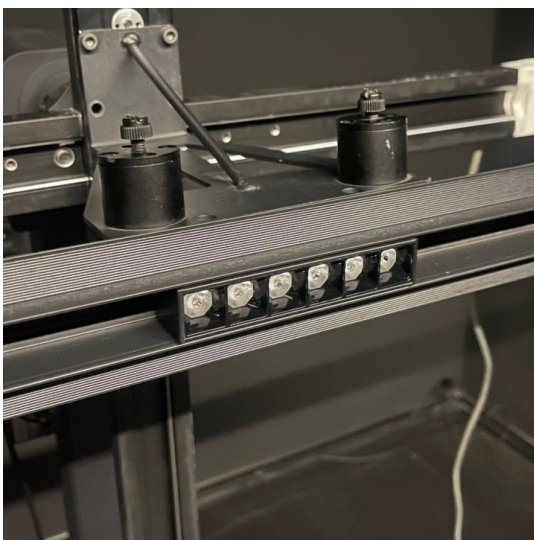
Product Info

Luminaire Category : **MagLight**Luminaire : **LINE UGR 111мм 4000K 48v**Lamp Category : **MagLight**Lamp : **LINE UGR 111мм 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 : **43 mm**

Electric Parameters

Voltage : **220.00 V** Current : **0.0750 A** Power : **6.49 W** Power Factor : **0.394** Frequency : **49.96 Hz**

Photometric Parameters

CIE Class : **Direct**Measurement Flux : **432.4 lm**Upward Ratio : **0.00 %**Maximum Intensity : **2670.34 cd/klm**Central Intensity : **2645.00 cd/klm**Luminaire Efficacy Rating (LER) : **67**Beam Angle (C0-C180,C90-C270) : **33.9 °, 33.7 °**Field Angle (C0-C180,C90-C270) : **53.8 °, 53.6 °**Total Rated Lamp Lumens : **432.4 lm**Efficiency : **100.00 %**Downward Ratio : **100.00 %**Position Of Maximum Intensity : **C180° γ2°**S/MH(C0-C180,C90-C270) : **0.57, 0.56**Energy Efficiency Class : **G (EU 2019/2015 η_{TM}:77lm/W)**Beam Angle (C45-C225,C135-C315) : **36.0 °, 35.9 °**Field Angle (C45-C225,C135-C315) : **64.5 °, 64.5 °**

Average Beam Angle (50%): 34.9°

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.

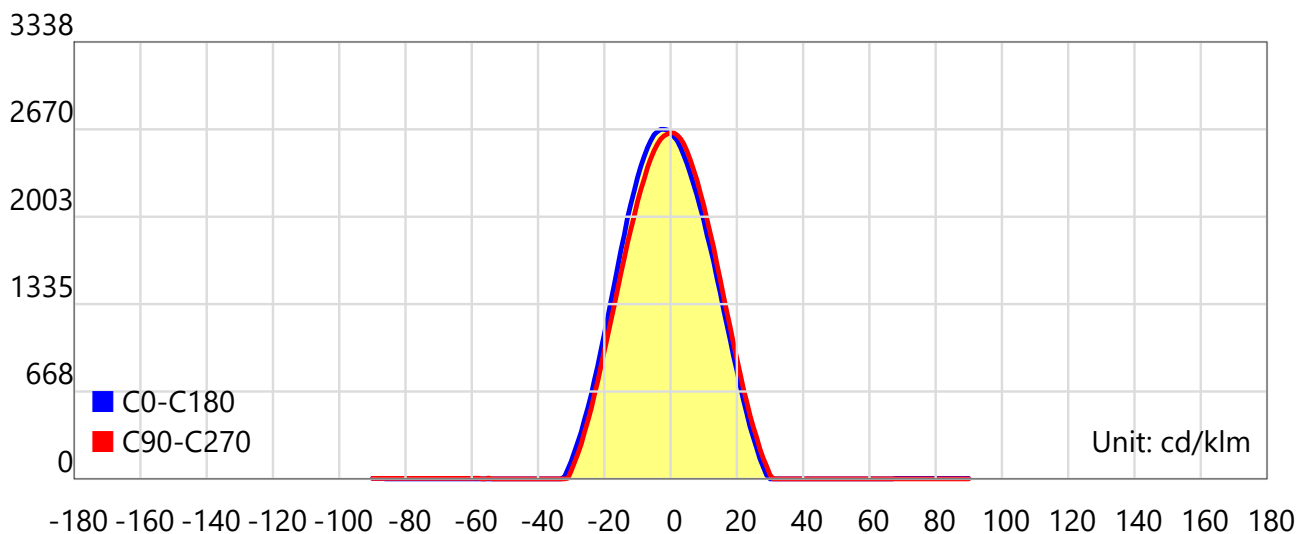
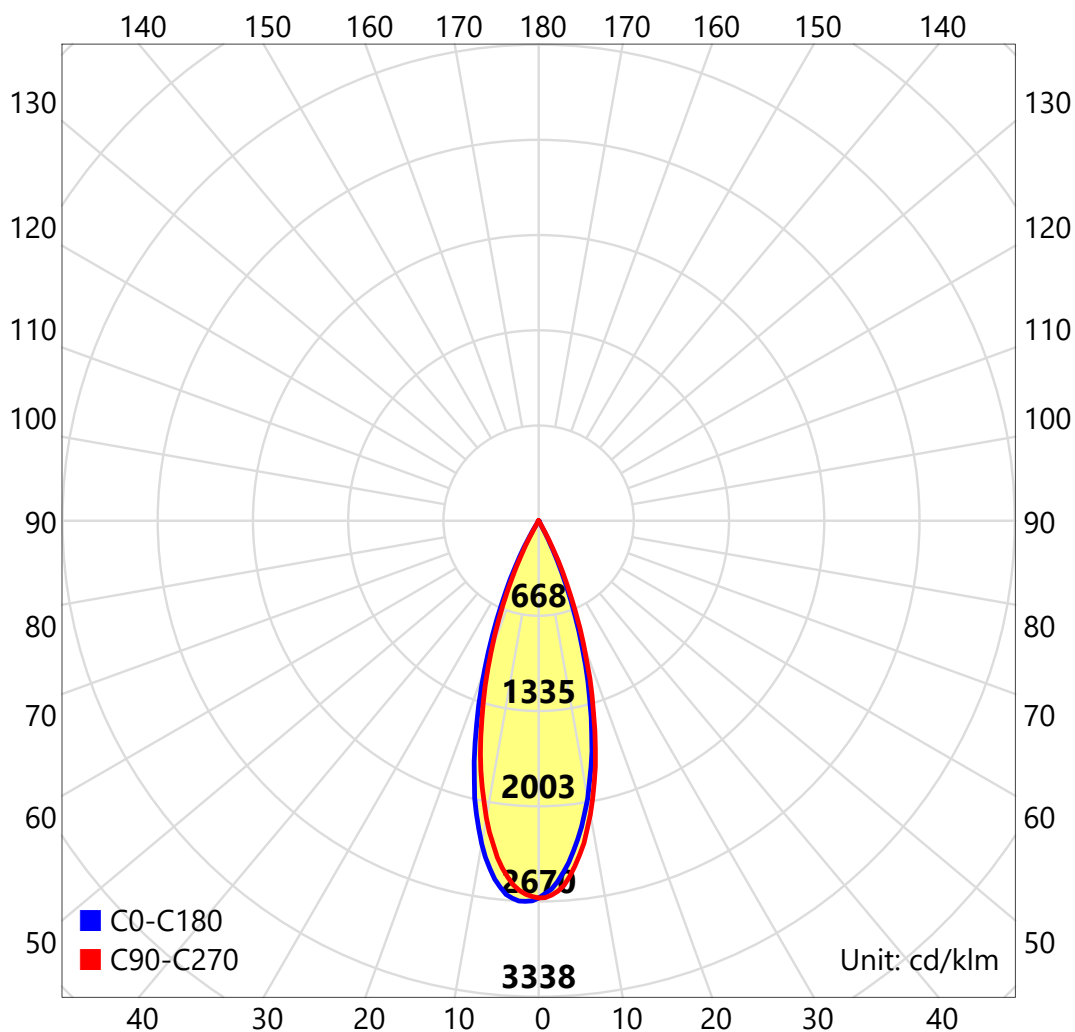
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Light Distribution Curve

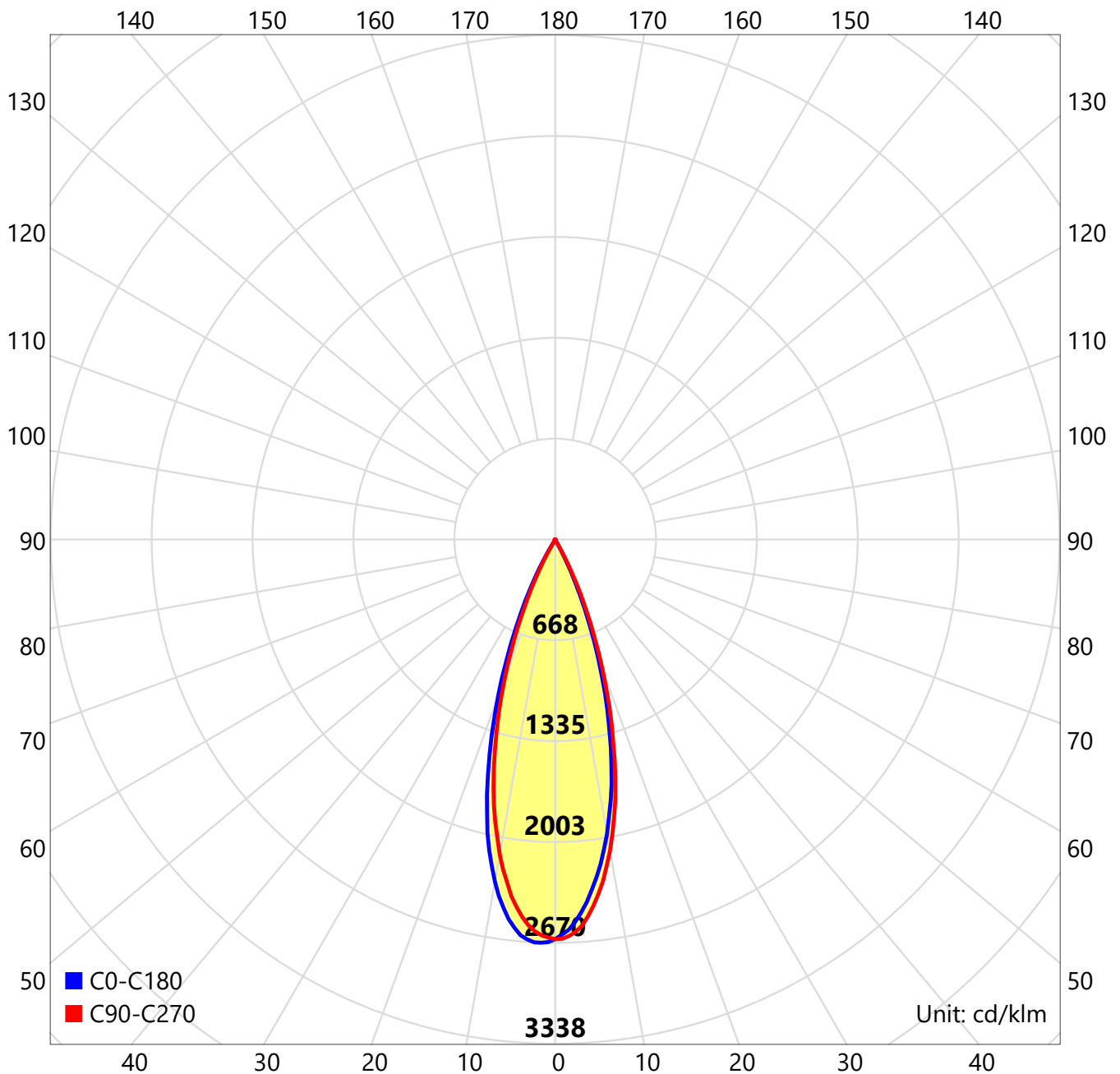


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Light Distribution Curve (cd/klm)



LINE UGR 111мм 4000K 48v/MagLight

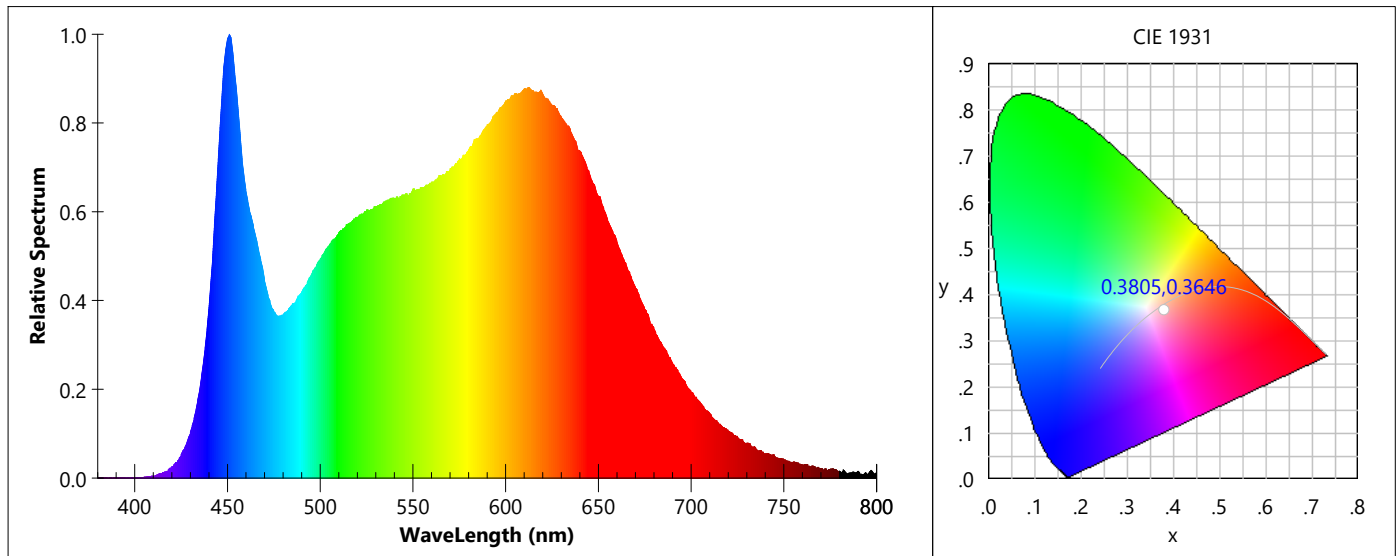
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Color Properties



Colorimetric

CIE(x,y): 0.3805,0.3646

CIE(u,v): 0.2301,0.3308

CIE(u',v'): 0.2301,0.4961

CCT: 3903 K (Duv=-0.005823)

Dominant Wavelength: 583.2 nm

Color Purity: 0.236

Peak Wavelength: 451.0 nm

Half Width: 25.5 nm

Color Ratio: R:0.211, G:0.744, B:0.046

Color Render Index: Ra: 95.1

R1: 97	R2: 98	R3: 98	R4: 97	R5: 97	R6: 94	R7: 92	R8: 87
R9: 71	R10: 98	R11: 98	R12: 80	R13: 99	R14: 99	R15: 96	

Color Quality Scale: Qa: 93.0 , Qf: 92.1 , Qp: 95.2 , Qg: 100.3

Q1: 92	Q2: 99	Q3: 88	Q4: 88	Q5: 94	Q6: 97	Q7: 95	Q8: 96
Q9: 99	Q10: 96	Q11: 94	Q12: 94	Q13: 93	Q14: 91	Q15: 91	

TM-30-18: Rf: 92 , Rg: 100

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 6.717 umol/s
 Photosynthetic Active Radiant Flux (Фe): 1.422 W
 Photons Flux (400~500nm): 1.221 umol/s
 Photons Flux (600~700nm): 2.832 umol/s
 Photons Flux (PFuv 280~400nm): 0.000 umol/s
 Radiant Flux (400~500nm): 0.316 W
 Radiant Flux (600~700nm): 0.530 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 5.925 umol/s
 YPF (500~600nm): 2.321 umol/s
 YPF (700~800nm): 0.066 umol/s
 Radiant Flux (Chl-A): 0.109 W

Photosynthetic Photon Efficacy (Kp): 1.035 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.219
 Photons Flux (500~600nm): 2.663 umol/s
 Photons Flux (PFfr 700~800nm): 0.315 umol/s
 Photons Flux (PF_PBAR): 7.033 umol/s
 Radiant Flux (500~600nm): 0.576 W
 Radiant Flux (700~800nm): 0.052 W
 R/B: 1.7 R/FR: 10.2
 YPF (400~500nm): 0.882 umol/s
 YPF (600~700nm): 2.656 umol/s
 YPF (320~400nm): 0.000 umol/s
 Radiant Flux (Chl-B): 0.201 W

Test Type : Type C Test Distance : 7.922 m
 Test Device : Lisun LSG-1800A
 Test Lab :
 Test By : Gubarev S. S.

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