

Report No. : 190

Test Time : 2025-01-29 18:07:06

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SELECTA Goniophotometer Test Report

Product Info

Luminaire Category : **MagLight**
Luminaire : **LINE 300мм 2700K 48v**
Lamp Category : **MagLight**
Lamp : **LINE 300мм 2700K 48v**
Manufacturer : **Selecta**
Submitter : **Gubarev S. S.**
Nuber of Lamps : **1**
Luminous Length : **300 mm**

Lumens per Lamp : **0 lm**
Luminous Width : **22 mm**
Luminous Height : **43 mm**

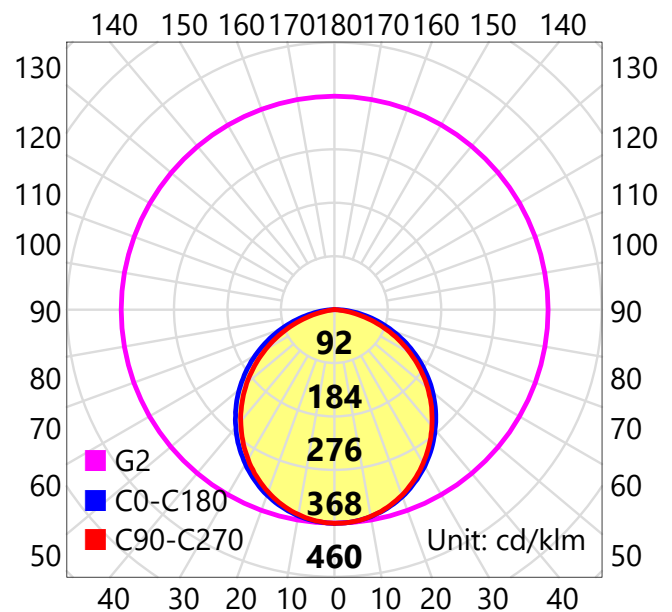
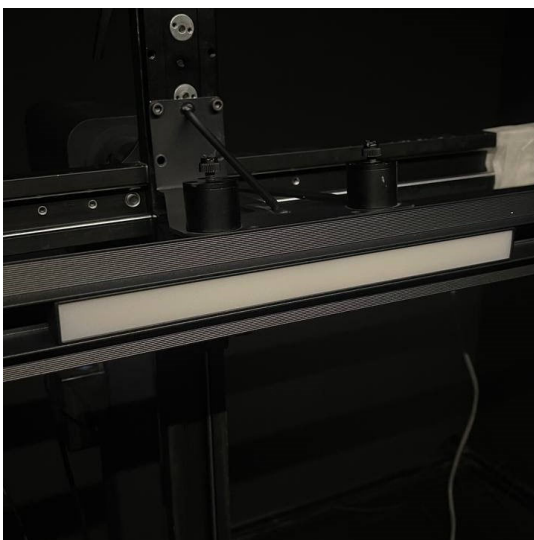
Electric Parameters

Voltage : **219.80 V** Current : **0.1300 A** Power : **12.40 W** Power Factor : **0.431** Frequency : **49.96 Hz**

Photometric Parameters

CIE Class : **Direct**
Measurement Flux : **589.3 lm**
Upward Ratio : **0.00 %**
Maximum Intensity : **367.83 cd/klm**
Central Intensity : **367.69 cd/klm**
Luminaire Efficacy Rating (LER) : **48**
Beam Angle (C0-C180,C90-C270) : **112.1 °, 106.8 °**
Field Angle (C0-C180,C90-C270) : **163.1 °, 155.3 °**

Total Rated Lamp Lumens : **589.3 lm**
Efficiency : **100.00 %**
Downward Ratio : **100.00 %**
Position Of Maximum Intensity : **C45° γ2°**
S/MH(C0-C180,C90-C270) : **1.25, 1.22**
Energy Efficiency Class : **G (EU 2019/2015 η_{TM}:45lm/W)**
Beam Angle (C45-C225,C135-C315) : **108.9 °, 108.9 °**
Field Angle (C45-C225,C135-C315) : **156.8 °, 157.0 °**



Average Beam Angle (50%): 109.2°

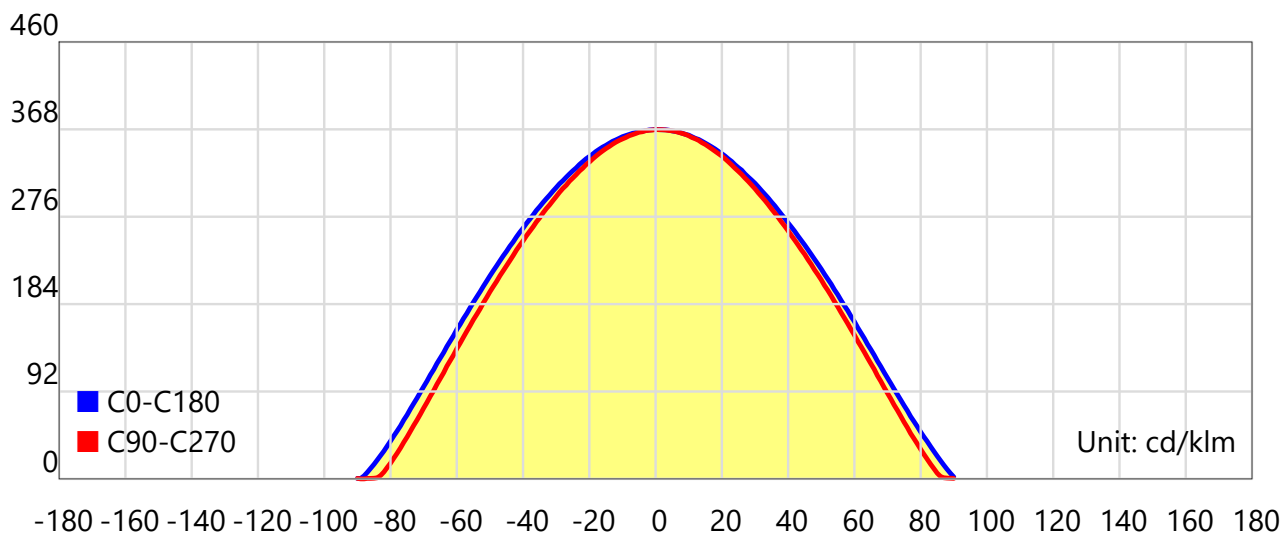
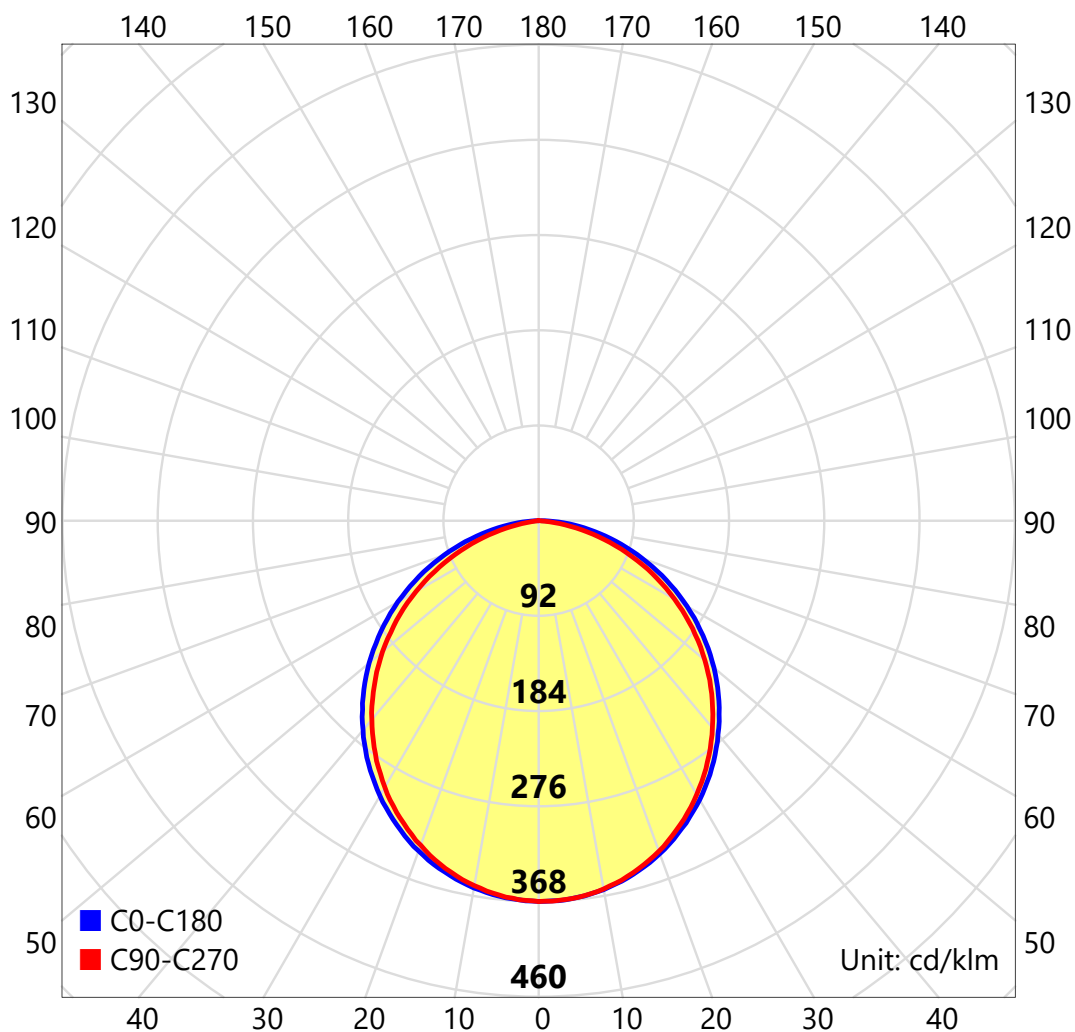
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0 γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve



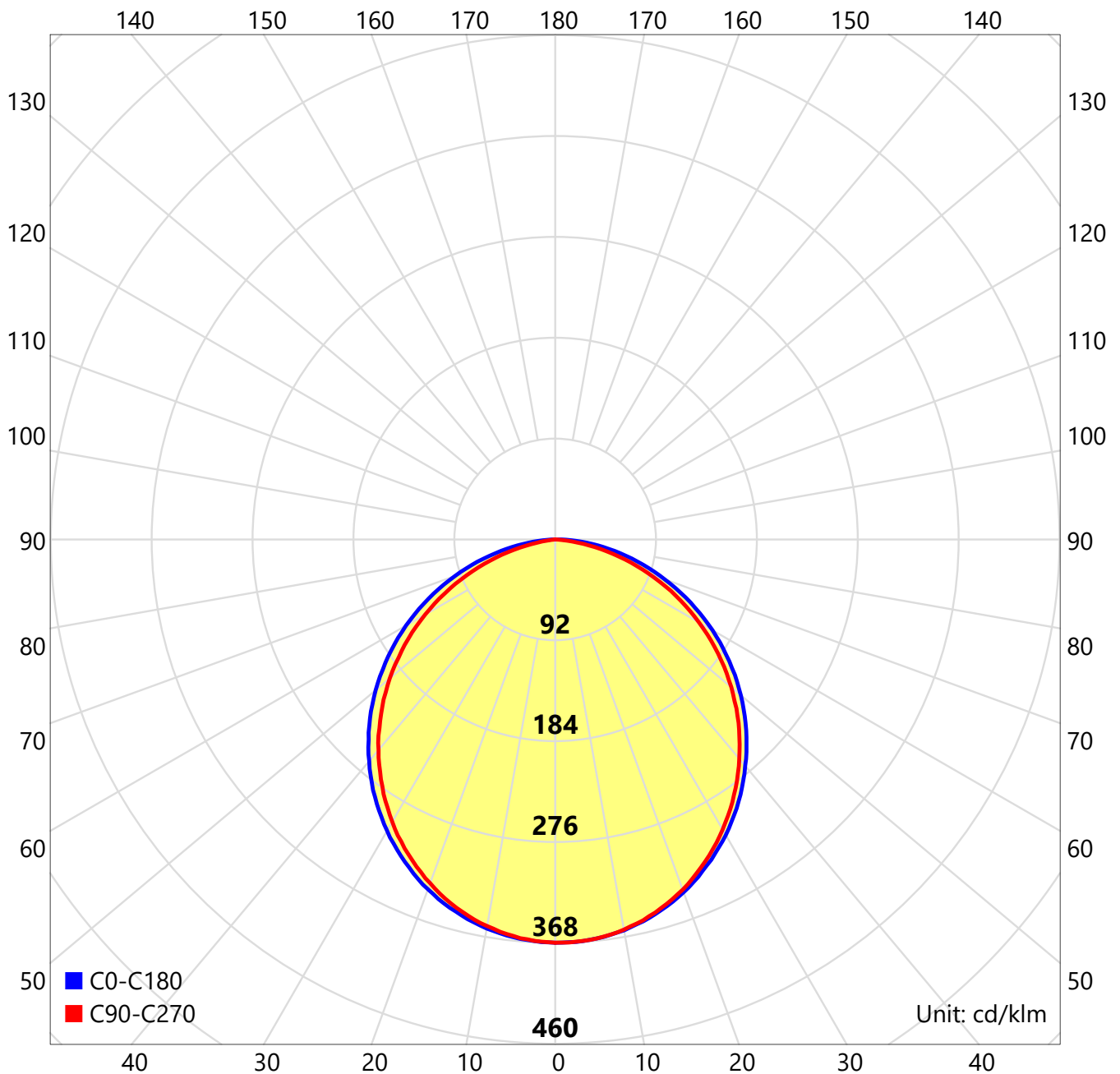
Test Type : Type C Test Distance : 7.922 m C Plane (°): 0.0-360.0:45.0γ (°): 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 21.0°C Humidity : 22.0%
Test Lab :
Test By : Gubarev S. S. Review By :

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Light Distribution Curve (cd/klm)



LINE 300mm 2700K 48v/MagLight

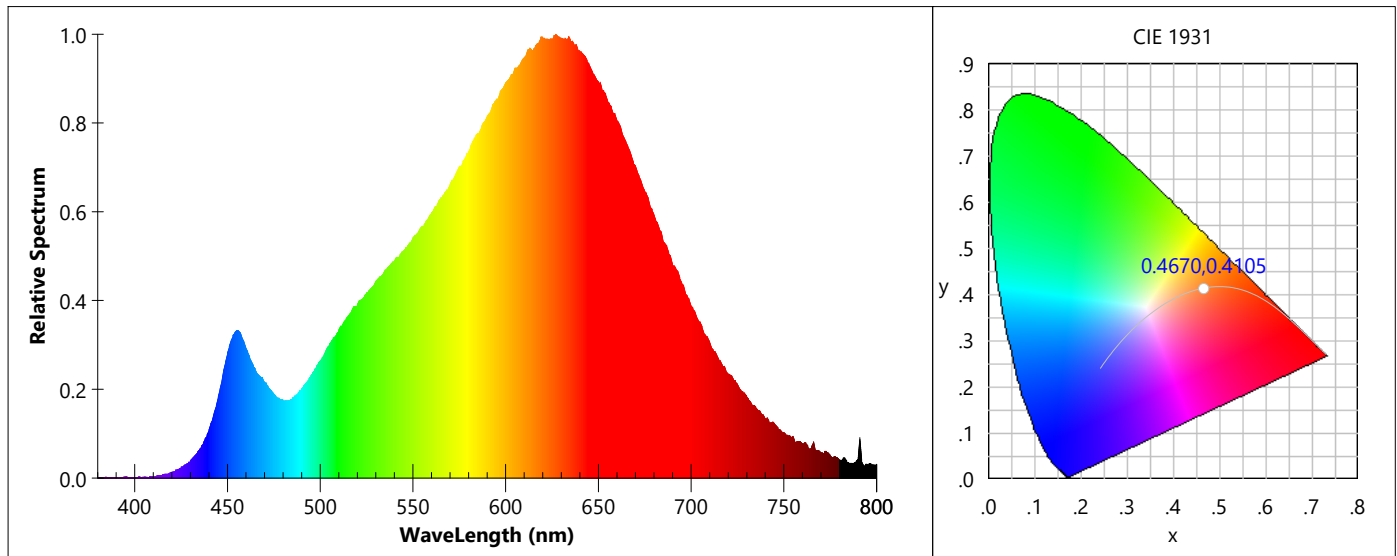
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Color Properties



Colorimetric

CIE(x,y): 0.4670,0.4105

CIE(u,v): 0.2672,0.3523

CIE(u',v'): 0.2672,0.5284

CCT: 2603 K (Duv=-0.000574)

Dominant Wavelength: 584.9 nm

Color Purity: 0.634

Peak Wavelength: 626.8 nm

Half Width: 146.2 nm

Color Ratio: R:0.270, G:0.707, B:0.023

Color Render Index: Ra: 92.1

R1: 92	R2: 96	R3: 99	R4: 91	R5: 92	R6: 96	R7: 91	R8: 80
R9: 58	R10: 91	R11: 96	R12: 83	R13: 93	R14: 99	R15: 88	

Color Quality Scale: Qa: 89.5 , Qf: 89.3 , Qp: 93.1 , Qg: 95.1

Q1: 88	Q2: 94	Q3: 88	Q4: 87	Q5: 89	Q6: 90	Q7: 89	Q8: 90
Q9: 96	Q10: 93	Q11: 92	Q12: 91	Q13: 90	Q14: 86	Q15: 86	

TM-30-18: Rf: 91 , Rg: 99

Phyto-light Parameters

Photosynthetic Photon Flux (Фp): 9.894 umol/s
 Photosynthetic Active Radiant Flux (Фe): 1.988 W
 Photons Flux (400~500nm): 0.743 umol/s
 Photons Flux (600~700nm): 5.733 umol/s
 Photons Flux (PFuv 280~400nm): 0.001 umol/s
 Radiant Flux (400~500nm): 0.191 W
 Radiant Flux (600~700nm): 1.065 W
 Radiant Flux (280~400nm): 0.000 W
 YPF (320~800nm): 9.065 umol/s
 YPF (500~600nm): 3.039 umol/s
 YPF (700~800nm): 0.215 umol/s
 Radiant Flux (Chl-A): 0.188 W

Photosynthetic Photon Efficacy (Kp): 0.798 umol/J
 Photosynthetic Radiant Efficiency (ηe): 0.160
 Photons Flux (500~600nm): 3.418 umol/s
 Photons Flux (PFfr 700~800nm): 1.098 umol/s
 Photons Flux (PF_PBAR): 10.993 umol/s
 Radiant Flux (500~600nm): 0.732 W
 Radiant Flux (700~800nm): 0.180 W
 R/B: 5.6 R/FR: 5.9
 YPF (400~500nm): 0.533 umol/s
 YPF (600~700nm): 5.278 umol/s
 YPF (320~400nm): 0.001 umol/s
 Radiant Flux (Chl-B): 0.194 W

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