Schreder Laboratory Test Photometry report

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Luminaire description:

Luminaire type: BRITELINE GEN2 2

Led engine type: 648 LH351C

Color Type: CW757

Driving current: 2100mA

Lens type: 5449

Special photometric feature and protector: Integrated lenses

Measurement specificities, uncertainties and followed standard:

Followed Standards: EN 13032-1; EN 13032-4; CIE 121-1996; CIE S 025; LM79-08

Presented quantities: Light distribution (relative or absolute photometry); CCT; CRI; Power; lm/watt

If no other specification, primary electrical values are AC with 50Hz frequency.

Measurement specificity: Colorimetric information are measured on Ulbricht sphere (integration of the entire distribution). Light distribution is measured with goniophotometer.

Aging: if not otherwise specified; no ageing (0 hour)

Stabilization time: A minimal stabilization time of 0.5 hour is applied, measurement will start when no more variation above 0.5% in 15% exist

Uncertainties: with K=2 95% of confidence level. Intensity +/- 3%; angle +/- 0.5°; flux +/- 2.5%; temperature +/- 0.65%; AC power +/- 0.2%; AC voltage +/- 0.10%; AC current +/- 0.15%; CCT +/- 7.5%; CRI +/- 2.75%; x/y +/- 4.6%; lm/watt +/- 3.4%

Equipment in use: Gonio type C LMT GO-DS 2000 and RIGO 801; Sphere 4pi LMT UL2000 and ISP2000; Multimeters Agilent 34401A and Yokogawa WT310; Thermometers Amarell N63833. All equipment are in order of calibration with traceability to primary standard.

Disclaimer:

This Photometric report is compiled based on ISO17025 accredited measurement realized in Schreder laboratory (at 25°C +/- 1°C) and calculation data deriving from those measurements. The value of this report may differ from real measurement from specific product but not more than 7% on flux and 5% on power

The publication of this report in another form than the original one is not allowed without agreement of the laboratory. This report concerns type tests on one or a series of specimens.

Validated by : L. Maghe **[CR/E99373-1]**

Signature:  Date: 06.03.2025 1/2

Test Detail

BRITELINE GEN2 2 5449 Integrated lenses 648 LH351C LED@700mA Driver@2100mA CW 757 230V E99373

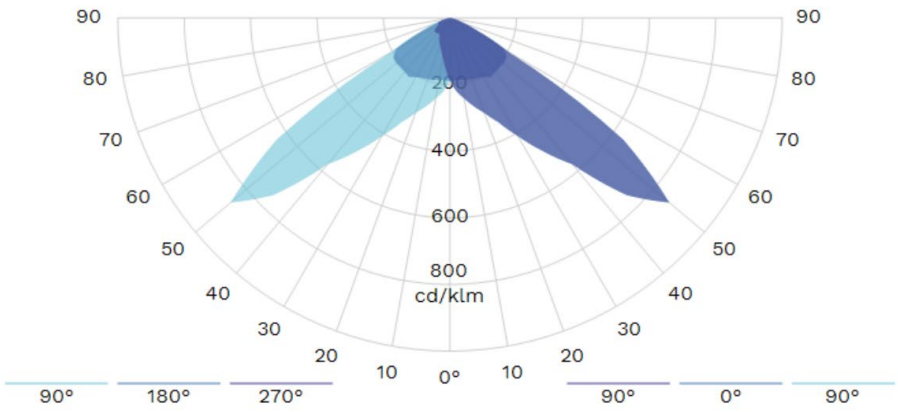
5449

Optic	5449
Protector	Integrated lenses
Source	648 LH351C@700mA CW 757 230V
Matrix	LH351C
Power (W)	1397 W
Lamp output flux (lm)	219832 lm
Luminaire output flux (lm)	219734 lm

Information for 1000 lm matrix

Efficacy (%)	100.0	G Class (EN 13201-2)	G5	I 70-80-90-95 (cd)	214 - 20 - X - X
DLOR (%)	100.0	G* (EN 13201 2015)	G*6	CIE flux code N 1→5 (%)	34.9 - 83.4 - 98.9 - 100.0 - 100.0
ULOR (%)	0.0	Imax (cd)	862	BUG Rating	B4 U1 G4
ULR (%)	0.0	Aperture 0-180°	X - X	Gradient 90°	86cd
Incl ULR 4%	-45/31°	Aperture 90-270°	31 - X	Gradient 270°	7cd

Polar/Cartesian diagram



Photometrical data : 157.3 lm/W

End of test report