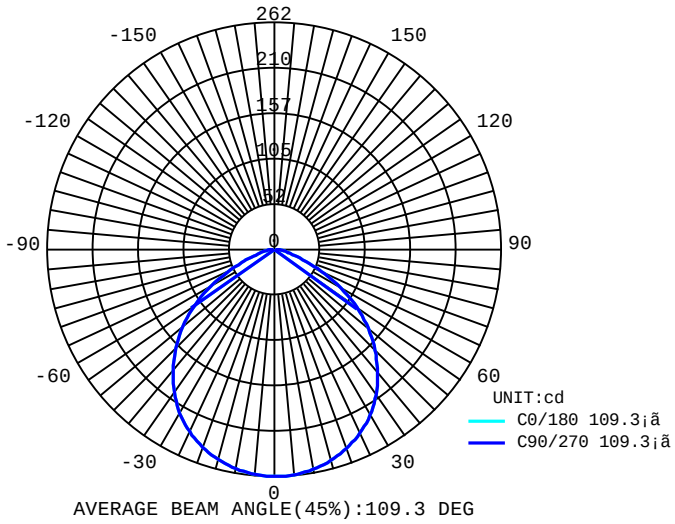
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: Lamppukauppa Led Store Oy		
ADDRESS: Mesikukantie 16, 01300 VANTAA | www.ledstore.fi		
NAME: LED downlight — ROUND R023, IP54, CCT 2900-4000-5600K,dimmable 9W, high CRI98	SKU: R023-CCT-9W	TYPE: LED
SPECIFICATION: LED downlight, measured at the cool end of the color temperature range	NOTES: Color temperature adjustable	MEASURED BY: Lamppukauppa Led Store Oy

DATA OF LAMP		Imax(cd)	262.3	S/MH(C0/180)	1.25
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.25
NOMINAL POWER(W)	9	TOTAL FLUX(lm)	644.97	Voltage(V)	24.00
RATED VOLTAGE(V)	220.0	EFFICIENCY(lm/W)	70.7	Current(A)	0.380
NOMINAL FLUX(lm)	645.0	η up(%)	0.0	Power(W)	9.120
LAMPS QUANTITY	1	η down(%)	100.0	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effictive Flux(lm)	623.8	EEI	0.174(A)

LUMINOUS INTENSITY DISTRIBUTION



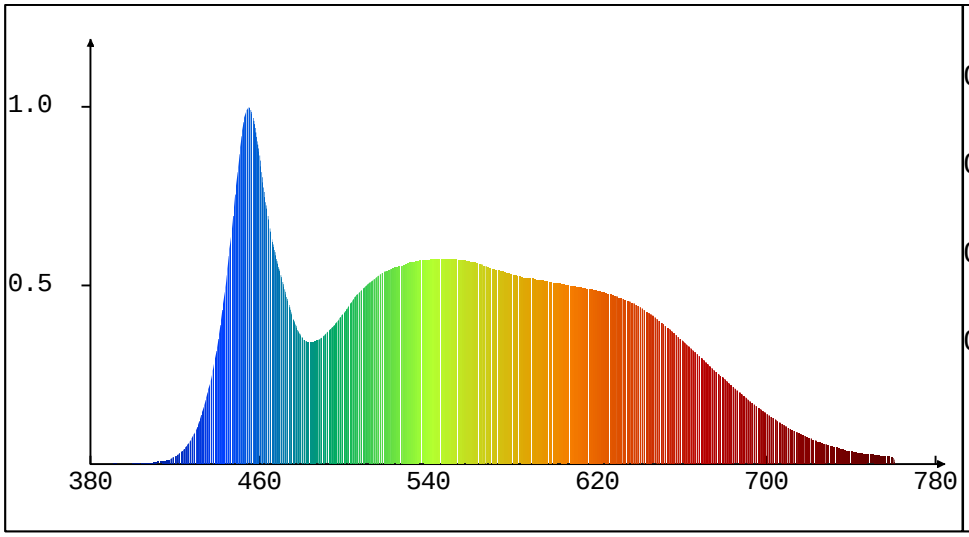
AVERAGE BEAM ANGLE(45%):109.3 DEG

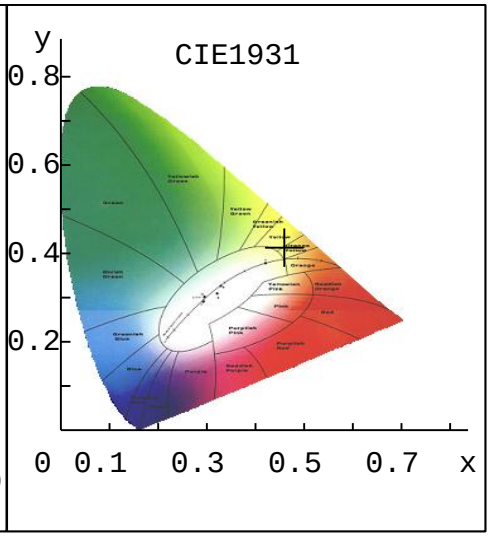
Test System:HopooColor HP880	Test Set: 5.0deg/s C-Gamma (TYPE C)
Temperature:25.3DEG	Humidity:65.0%
Operators:	Test Distance:1.000 m
Test Date:09-20-2024	Remarks:

Spectrum Chart

Report number:

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Avg Chro. Para.

CCT: 5579K Chro. Coor.: xa=0.3306 ya=0.3489 u'a=0.2027 v'a=0.4812 ¦¤u'v'=0.0000

Current Angle: C=0.0¡ã G=0.0¡ã

Chroma Parameters

Chro.Coor.: x=0.3307 y=0.3489 u'=0.2027 v'=0.4812 duv=0.0048

CCT: 5578K Dominant Wave: 545.2nm Purity: 4.0% Light Intensity: 861.7cd

Flux RGB Ratio: R=31.3%,G=40.9%,B=27.8% Peak Wave: 454.0nm Half Width: 27.1nm

Rendering Index: Ra= 91.8

R1 =92	R2 =95	R3 =95	R4 =90	R5 =90	R6 =91	R7 =95	R8 =87
R9 =64	R10=86	R11=90	R12=67	R13=93	R14=97	R15=90	

Instrument State

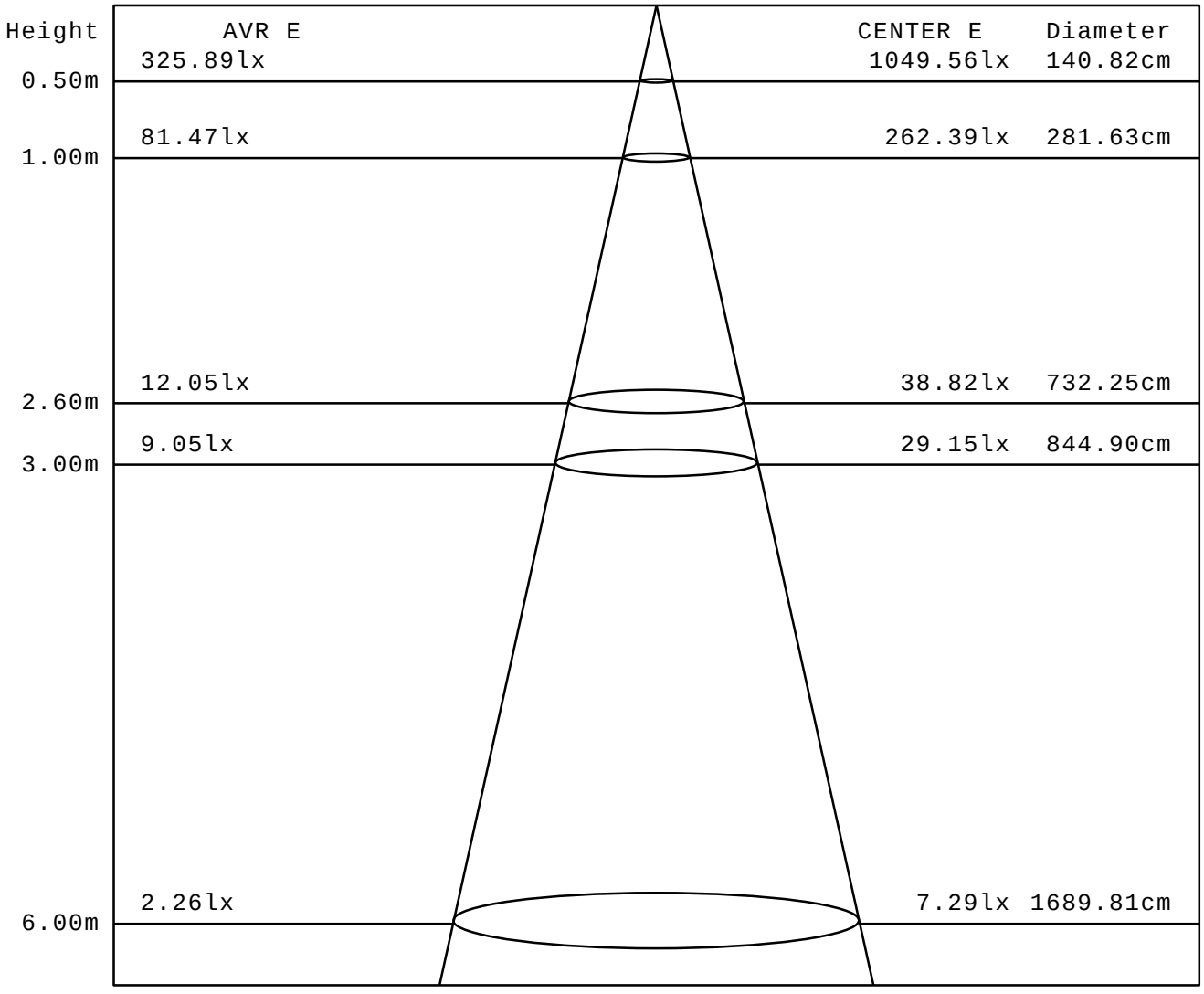
Scan Range: 380nm-780nmIntegral Time: 110.0ms Peak Signal: 110000 Dark Signal: 53375

Test System:HopooColor HP880 Test Set: 5.0deg/s C-Gamma (TYPE C)
Temperature:25.3DEG Humidity:65.0%
Operators: Test Distance:1.000 m
Test Date:09-20-2024 Remarks:

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: Lamppukauppa Led Store Oy		
ADDRESS: Mesikukantie 16, 01300 VANTAA | www.ledstore.fi		
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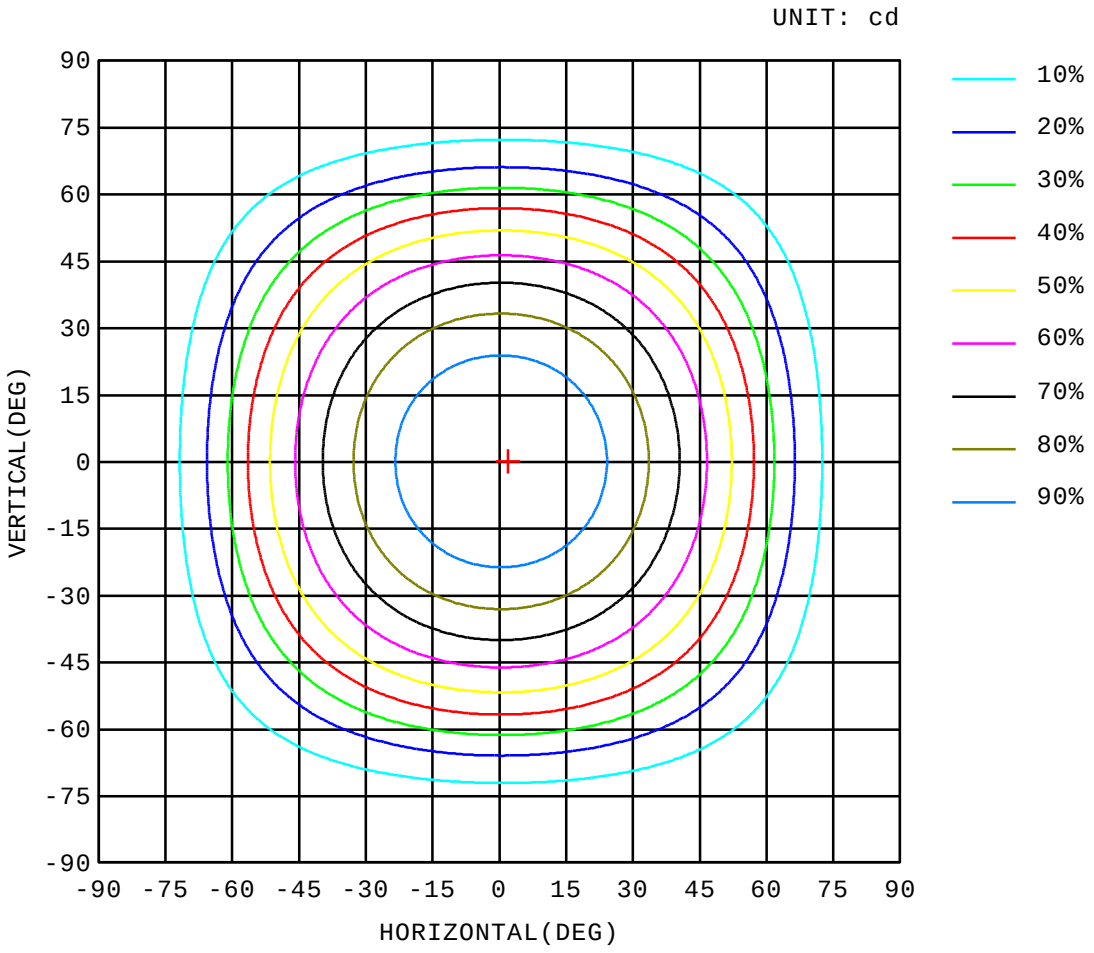
Angle:109.2deg

Test System:HopooColor HP880	Test Set: 5.0deg/s C-Gamma (TYPE C)
Temperature:25.3DEG	Humidity:65.0%
Operators:	Test Distance:1.000 m
Test Date:09-20-2024	Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Lamppukauppa Led Store Oy		
ADDRESS: Mesikukantie 16, 01300 VANTAA | www.ledstore.fi		
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SPECIFICATION: LED downlight, measured at the cool end of the color temperature range	NOTES: Color temperature adjustable	MEASURED BY: Lamppukauppa Led Store Oy



Test System:HopooColor HP880
Temperature:25.3DEG
Operators:
Test Date:09-20-2024

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:1.000 m
Remarks: