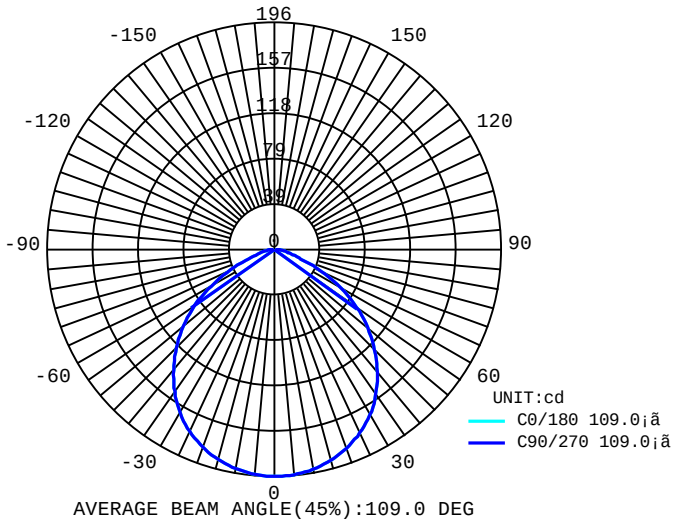
LUMINAIRE PHOTOMETRIC TEST REPORT

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 warm end of the color temperature range	NOTES: Color temperature adjustable	MEASURED BY: Lamppukauppa Led Store Oy

DATA OF LAMP		Imax(cd)	196.4	S/MH(C0/180)	1.25
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.25
NOMINAL POWER(W)	9	TOTAL FLUX(lm)	481.26	Voltage(V)	24.00
RATED VOLTAGE(V)	220.0	EFFICIENCY(lm/W)	52.8	Current(A)	0.380
NOMINAL FLUX(lm)	481.3	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)	465.4	EEI	0.218(A)

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(45%):109.0 DEG

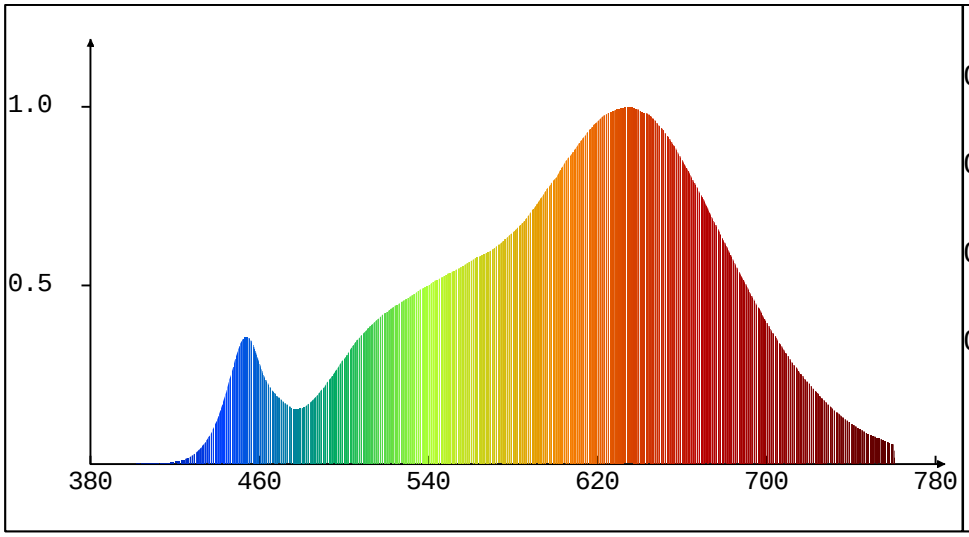
Test System:HopooColor HP880
Temperature:25.3DEG
Operators:
Test Date:09-20-2024

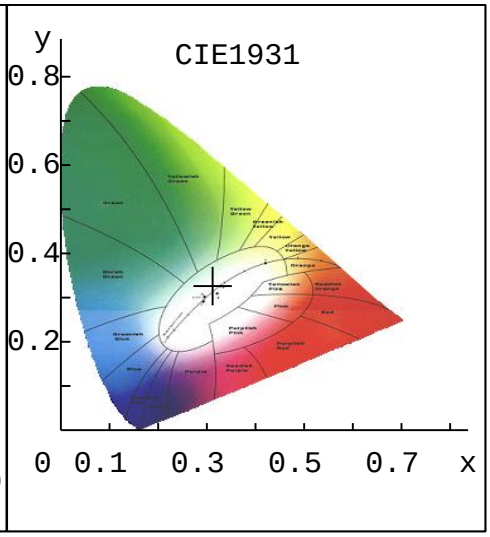
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:1.000 m
Remarks:

Spectrum Chart

Report number:

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Avg Chro. Para.

CCT: 2701K Chro. Coor.: xa=0.4594 ya=0.4096 u'a=0.2626 v'a=0.5269 ¦¤u'v'=0.0000

Current Angle: C=0.0¡ã G=0.0¡ã

Chroma Parameters

Chro.Coor.: x=0.4594 y=0.4096 u'=0.2626 v'=0.5269 duv=-0.0003

CCT: 2699K Dominant Wave: 584.3nm Purity: 60.9% Light Intensity: 645.4cd

Flux RGB Ratio: R=57.5%,G=33.2%,B=9.3% Peak Wave: 633.8nm Half Width: 151.0nm

Rendering Index: Ra= 97.5

R1 =99	R2 =99	R3 =97	R4 =98	R5 =99	R6 =98	R7 =97	R8 =93
R9 =83	R10=97	R11=96	R12=89	R13=100	R14=97	R15=97	

Instrument State

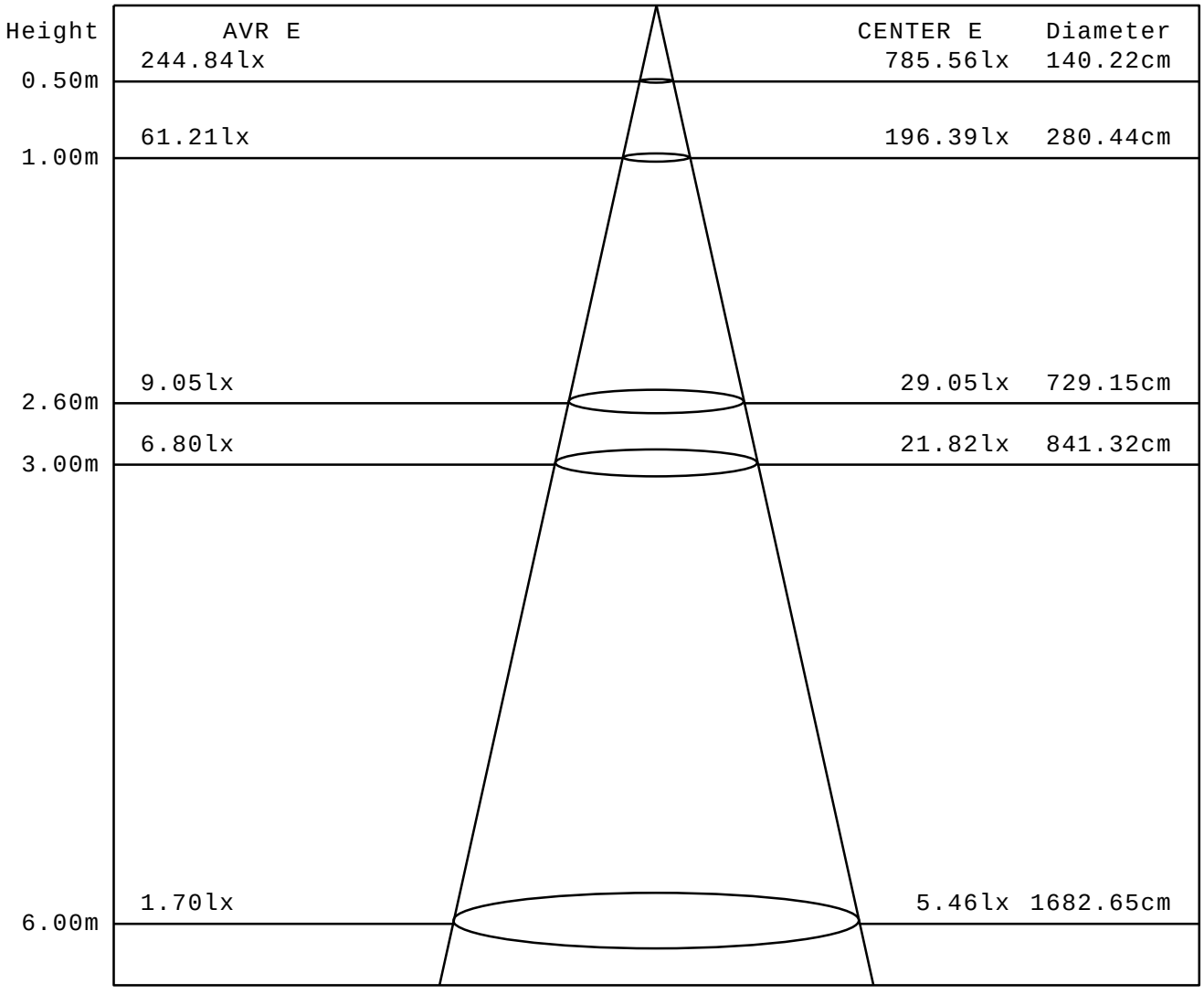
Scan Range: 380nm-780nmIntegral Time: 190.0ms Peak Signal: 190000 Dark Signal: 53953

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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SPECIFICATION: LED downlight, measured at the warm end of the color temperature range	NOTES: Color temperature adjustable	MEASURED BY: Lamppukauppa Led Store Oy



Angle:109.0deg

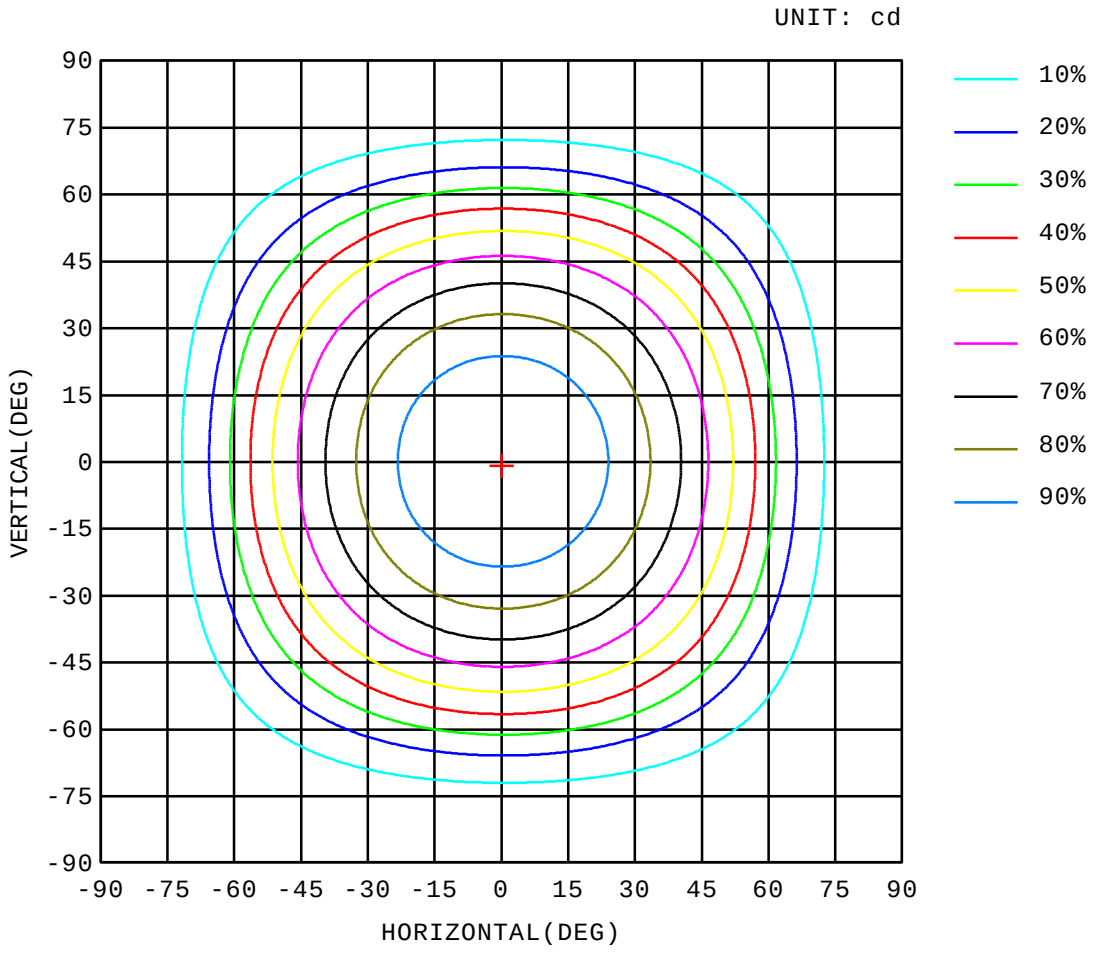
Test System:HopooColor HP880
Temperature:25.3DEG
Operators:
Test Date:09-20-2024

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

ISOCANDELA DIAGRAM

Report number:

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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%
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Remarks: