Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P745420

Luminaire Tested: LD4D25D010-EU4DR5520359024-4LBCSSQMMS

Issue Date: 1/30/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P745420
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/30/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LD4D25D010-EU4DR5520359024-4LBCSSQMMS
Description:	4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 55° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2089.3 lumens
Efficiency:	N/A
Efficacy:	83.2 lumens/watt
Spacing Criteria (0/90/45):	0.89 / 0.89 / 0.87
Luminous Opening:	Circular (Dia: 0.35' x H: 0')
CIE Type:	Direct

Input Watts (W):	25.1
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

Downlight

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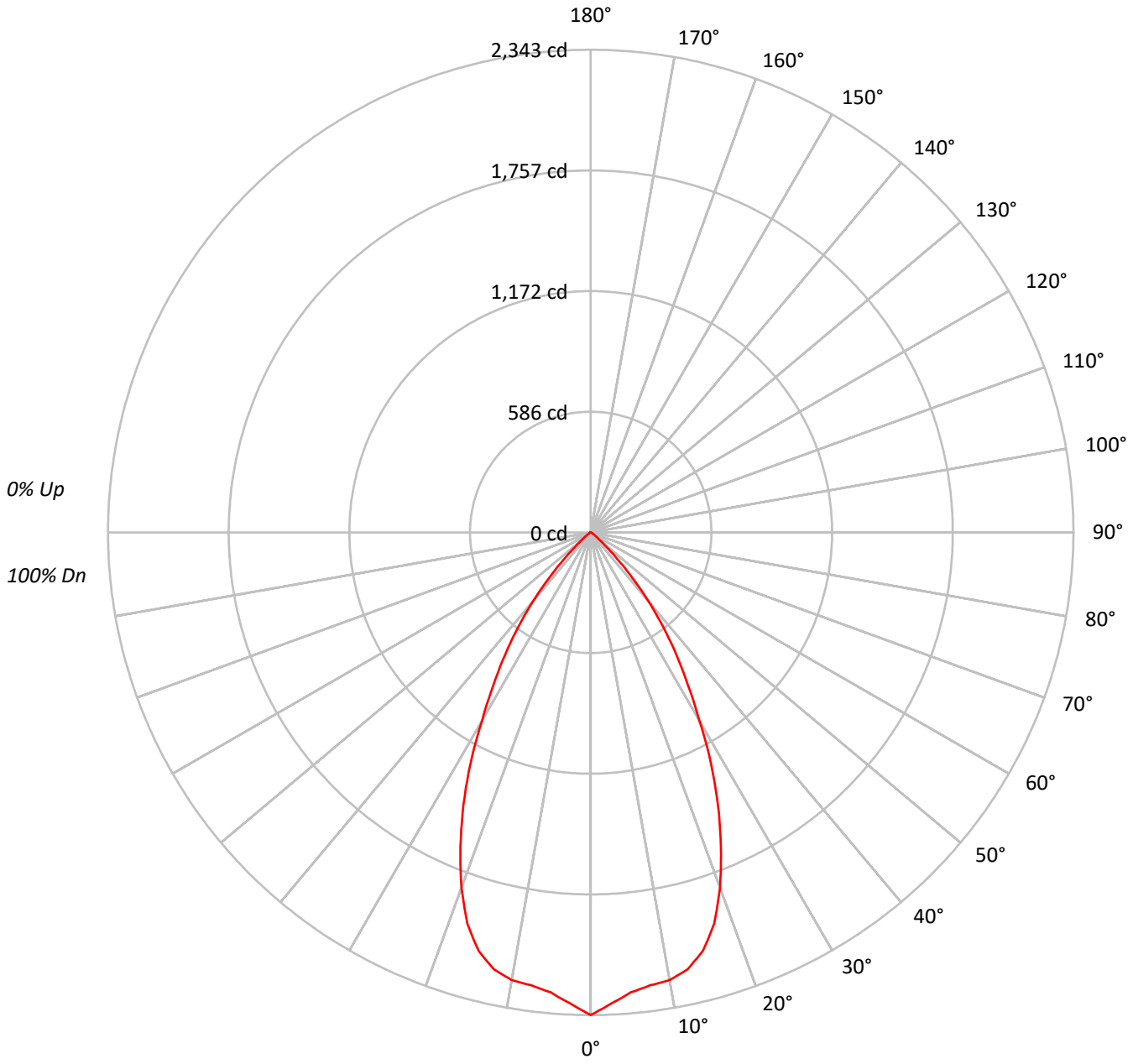
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	88	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54
10	72	62	56	52	71	61	56	52	61	56	52	60	55	52	59	55	52	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	255976
5°	245811
10°	244881
15°	237847
20°	213268
25°	176253
30°	133140
35°	96542
40°	61787
45°	28215
50°	9230
55°	3981
60°	1704
65°	233
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 28215 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	10.2
10°-20°	582.0	27.9
20°-30°	663.3	31.7
30°-40°	451.5	21.6
40°-50°	155.6	7.4
50°-60°	21.5	1.0
60°-70°	2.1	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1458.6	69.8
0°-40°	1910.1	91.4
0°-60°	2087.2	99.9
0°-90°	2089.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2089.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2343	
5°	2241	213
15°	2103	582
25°	1462	663
35°	724	452
45°	183	156
55°	21	21
65°	1	2
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2342.8
2.5°	2289.1
5°	2241.2
7.5°	2217.7
10°	2207.2
12.5°	2172.4
15°	2102.7
17.5°	1992.1
20°	1834.2
22.5°	1651.9
25°	1462.0
27.5°	1264.3
30°	1055.3
32.5°	878.2
35°	723.8
37.5°	576.8
40°	433.2
42.5°	300.2
45°	182.6
47.5°	98.4
50°	54.3
52.5°	32.2
55°	20.9
57.5°	13.3
60°	7.8
62.5°	3.5
65°	0.9
67.5°	0.3
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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0°-180°

(END OF REPORT)