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: P745108

Luminaire Tested: LD4D25D010-EU4DR3520359024-4LBCSSQMMS

Issue Date: 1/30/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P745108
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/30/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LD4D25D010-EU4DR3520359024-4LBCSSQMMS
Description:	4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 35° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1910.7 lumens
Efficiency:	N/A
Efficacy:	76.1 lumens/watt
Spacing Criteria (0/90/45):	0.6 / 0.6 / 0.54
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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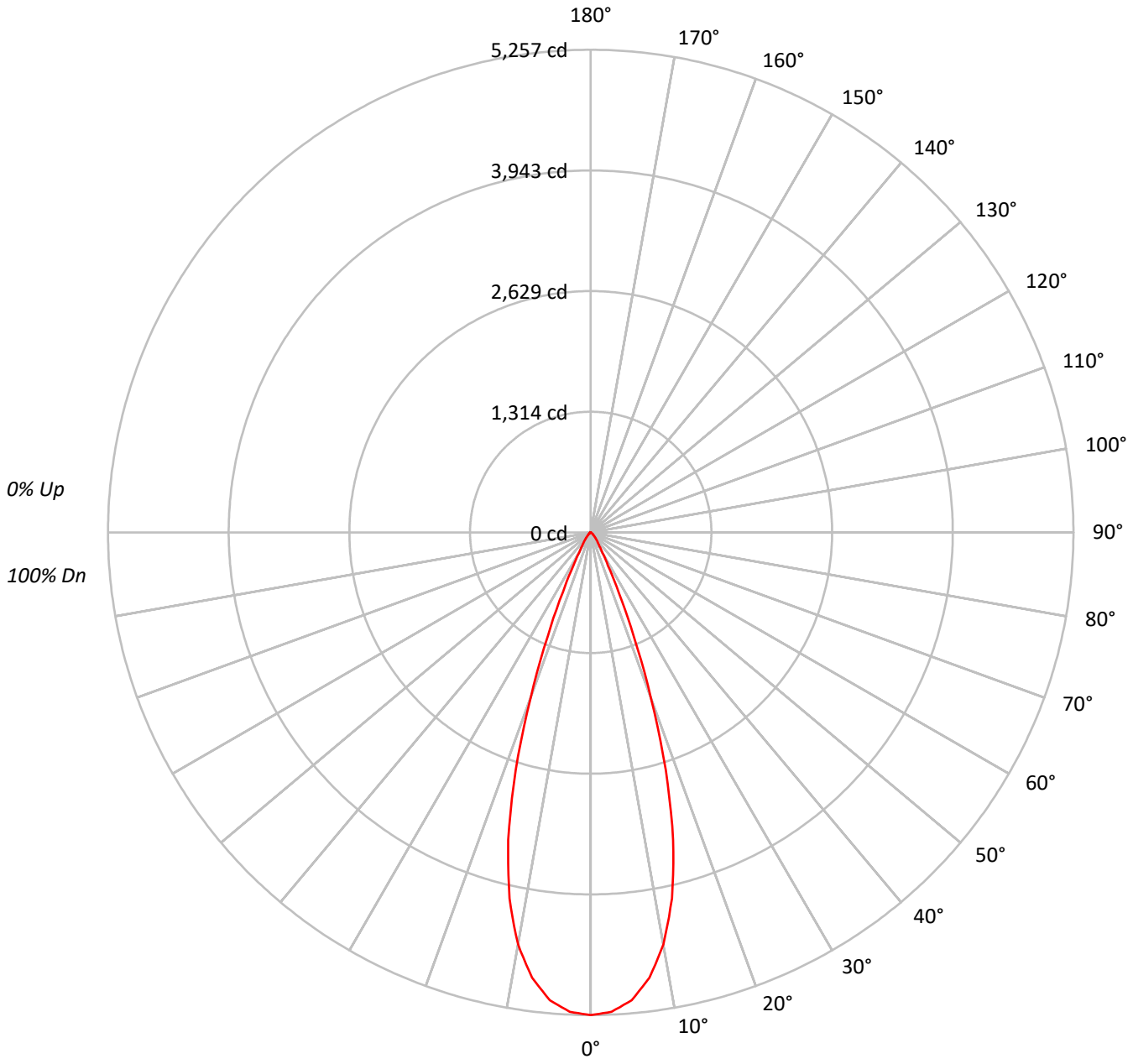
Luminous Intensity Polar Plot



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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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	574417
5°	560916
10°	505538
15°	392374
20°	222558
25°	86583
30°	32310
35°	17713
40°	11567
45°	7046
50°	4487
55°	3162
60°	2316
65°	1267
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7046 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.4	24.6
10°-20°	918.3	48.1
20°-30°	374.5	19.6
30°-40°	89.6	4.7
40°-50°	37.3	2.0
50°-60°	15.5	0.8
60°-70°	4.8	0.3
70°-80°	0.1	0.0
80°-90°	0.1	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°	1763.3	92.3
0°-40°	1852.9	97.0
0°-60°	1905.7	99.7
0°-90°	1910.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1910.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5257	
5°	5114	470
15°	3469	918
25°	718	375
35°	133	90
45°	46	37
55°	17	15
65°	5	5
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5257.3
2.5°	5225.8
5°	5114.2
7.5°	4891.7
10°	4556.6
12.5°	4084.7
15°	3468.8
17.5°	2715.7
20°	1914.1
22.5°	1220.5
25°	718.2
27.5°	406.0
30°	256.1
32.5°	179.8
35°	132.8
37.5°	102.6
40°	81.1
42.5°	62.5
45°	45.6
47.5°	34.1
50°	26.4
52.5°	20.9
55°	16.6
57.5°	13.5
60°	10.6
62.5°	7.7
65°	4.9
67.5°	1.7
70°	0.3
72.5°	0.3
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.3
85°	0.0
87.5°	0.0
90°	0.0

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0°-180°

(END OF REPORT)