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: P745640

Luminaire Tested: LD4D25D010-EU4DR6520359050-4LBCSSQMB

Issue Date: 2/2/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P745640
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	2/2/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LD4D25D010-EU4DR6520359050-4LBCSSQMB
Description:	4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 65° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2247.9 lumens
Efficiency:	N/A
Efficacy:	89.6 lumens/watt
Spacing Criteria (0/90/45):	0.95 / 0.95 / 0.96
Luminous Opening:	Circular (Dia: 0.48' 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

TEST NUMBER: P745640
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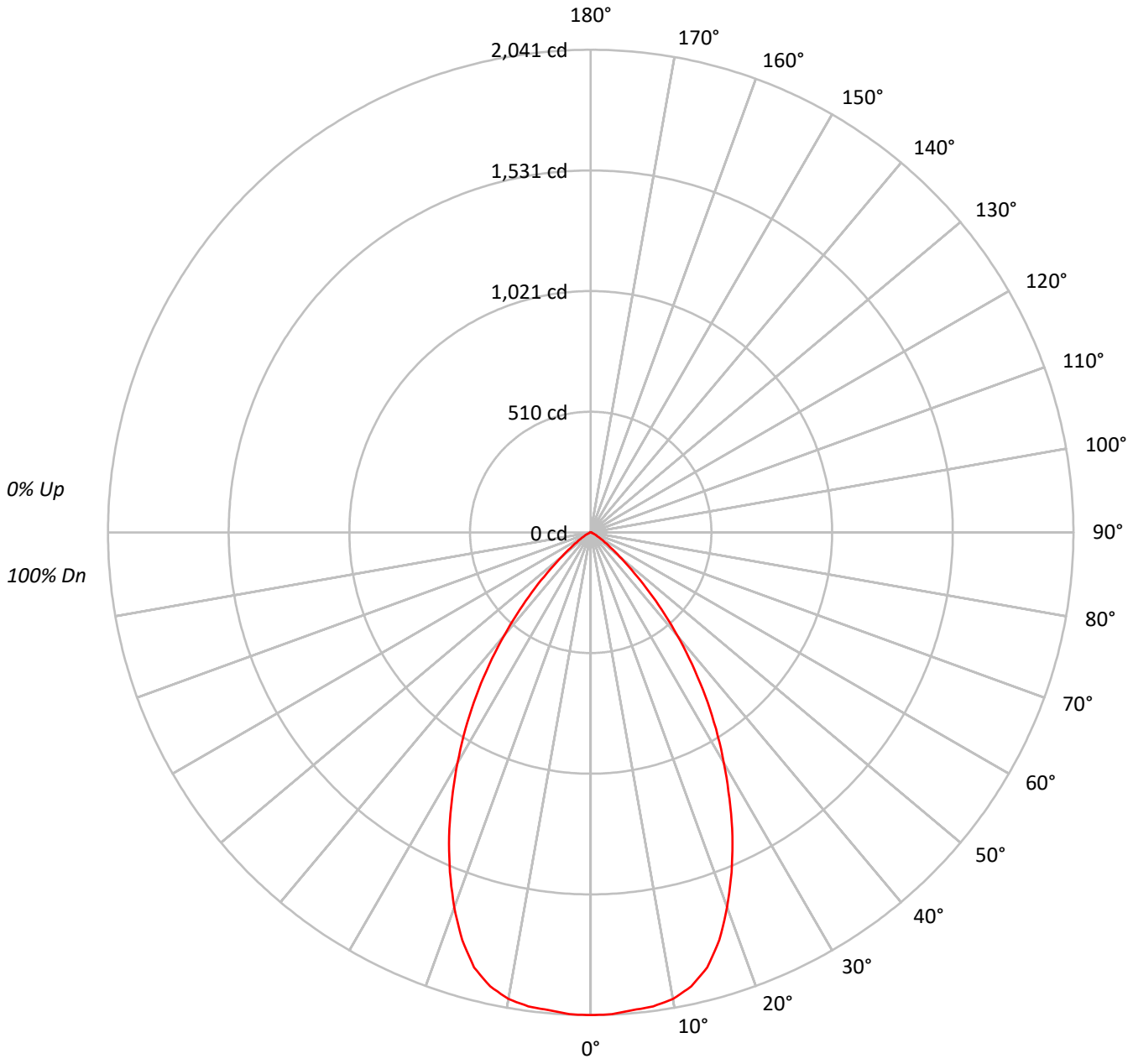
Luminous Intensity Polar Plot



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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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	119202
5°	118901
10°	118805
15°	115142
20°	104820
25°	91346
30°	75970
35°	60197
40°	43450
45°	27446
50°	14301
55°	7606
60°	3995
65°	2197
70°	922
75°	1015
80°	706
85°	603

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 27446 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	8.6
10°-20°	528.6	23.5
20°-30°	646.1	28.7
30°-40°	524.2	23.3
40°-50°	261.2	11.6
50°-60°	72.9	3.2
60°-70°	16.6	0.7
70°-80°	4.3	0.2
80°-90°	1.1	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°	1367.6	60.8
0°-40°	1891.8	84.2
0°-60°	2225.9	99.0
0°-90°	2247.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2247.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2041	
5°	2028	193
15°	1904	529
25°	1418	646
35°	844	524
45°	332	261
55°	75	73
65°	16	17
75°	4	4
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2041.0
2.5°	2039.5
5°	2028.1
7.5°	2021.5
10°	2003.3
12.5°	1966.0
15°	1904.3
17.5°	1807.7
20°	1686.5
22.5°	1555.7
25°	1417.5
27.5°	1269.6
30°	1126.5
32.5°	985.2
35°	844.3
37.5°	703.6
40°	569.9
42.5°	444.5
45°	332.3
47.5°	231.5
50°	157.4
52.5°	108.6
55°	74.7
57.5°	50.4
60°	34.2
62.5°	23.7
65°	15.9
67.5°	8.1
70°	5.4
72.5°	5.1
75°	4.5
77.5°	3.0
80°	2.1
82.5°	1.5
85°	0.9
87.5°	0.6
90°	0.0

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0°-180°

(END OF REPORT)