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: P744886

Luminaire Tested: LD4D25D010-EU4DR2015309027-4LBCSSQMB

Issue Date: 2/2/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P744886
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	2/2/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LD4D25D010-EU4DR2015309027-4LBCSSQMB
Description:	4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 20° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2285.5 lumens
Efficiency:	N/A
Efficacy:	91.1 lumens/watt
Spacing Criteria (0/90/45):	0.34 / 0.34 / 0.36
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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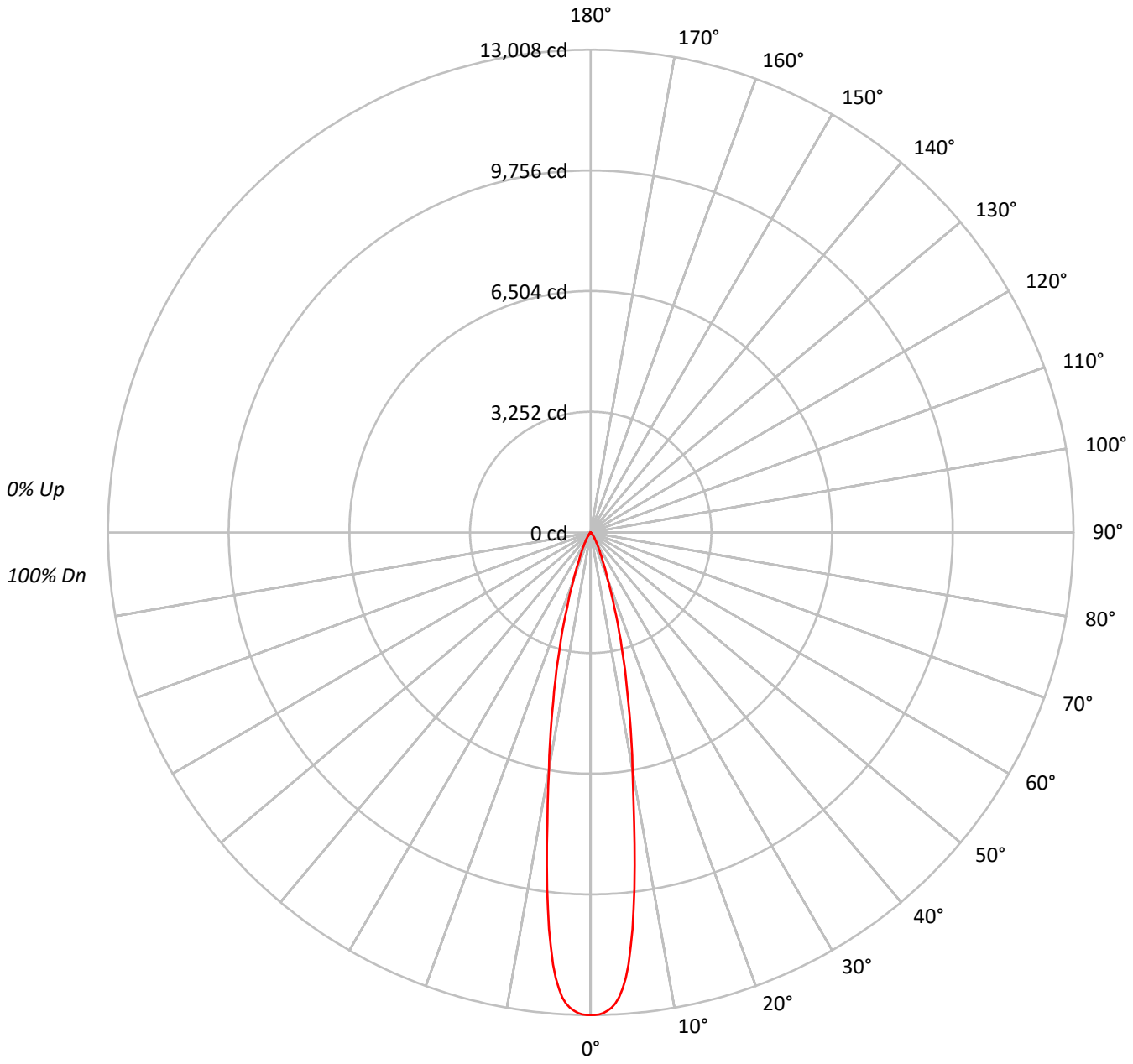
Luminous Intensity Polar Plot



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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	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1421286
5°	1282269
10°	719675
15°	365825
20°	154887
25°	71502
30°	37849
35°	20394
40°	10911
45°	6443
50°	3740
55°	1981
60°	1267
65°	905
70°	383
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6443 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	926.2	40.5
10°-20°	912.0	39.9
20°-30°	297.9	13.0
30°-40°	101.5	4.4
40°-50°	34.1	1.5
50°-60°	10.3	0.4
60°-70°	3.4	0.1
70°-80°	0.2	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°	2136.1	93.5
0°-40°	2237.5	97.9
0°-60°	2281.9	99.8
0°-90°	2285.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2285.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13008	
5°	11691	926
15°	3234	912
25°	593	298
35°	153	101
45°	42	34
55°	10	10
65°	4	3
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	13008.2
0.5°	13008.2
1°	12992.0
1.5°	12959.6
2°	12900.5
2.5°	12821.7
3°	12710.5
3.5°	12555.3
4°	12324.8
4.5°	12044.5
5°	11691.2
5.5°	11226.7
6°	10750.6
6.5°	10205.0
7°	9671.0
7.5°	9045.5
8°	8487.2
8.5°	7925.4
9°	7406.5
9.5°	6930.4
10°	6486.7
12.5°	4657.7
15°	3234.1
17.5°	2112.8
20°	1332.1
22.5°	863.0
25°	593.1
27.5°	417.0
30°	300.0
32.5°	215.5
35°	152.9
37.5°	106.6
40°	76.5
42.5°	55.6
45°	41.7
47.5°	32.4
50°	22.0
52.5°	13.9
55°	10.4
57.5°	8.1
60°	5.8
62.5°	4.6
65°	3.5

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CANDELA DISTRIBUTION (continued):

	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°

67.5°	*2.3*
70°	*1.2*

(END OF REPORT)