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: P745120

Luminaire Tested: LD4D25D010-EU4DR3520359027-4LBCSSQMB

Issue Date: 1/30/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P745120
	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-EU4DR3520359027-4LBCSSQMB
Description:	4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 35° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2121.1 lumens
Efficiency:	N/A
Efficacy:	84.5 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

TEST NUMBER: P745120
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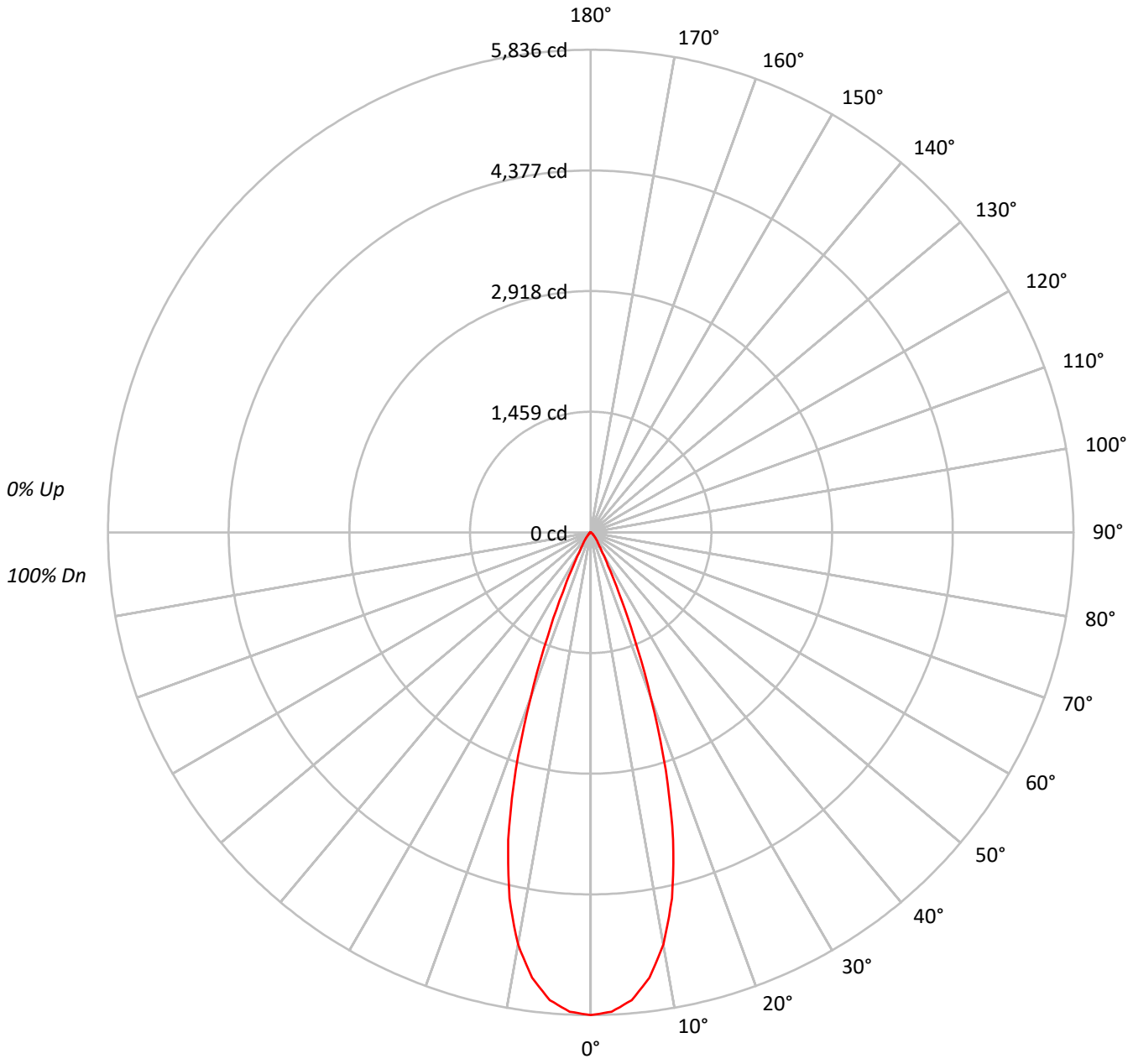
Luminous Intensity Polar Plot



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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°	637646
5°	622665
10°	561188
15°	435572
20°	247045
25°	96119
30°	35856
35°	19661
40°	12851
45°	7819
50°	4980
55°	3505
60°	2579
65°	1396
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7819 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.1	24.6
10°-20°	1019.4	48.1
20°-30°	415.8	19.6
30°-40°	99.5	4.7
40°-50°	41.5	2.0
50°-60°	17.2	0.8
60°-70°	5.4	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°	1957.3	92.3
0°-40°	2056.9	97.0
0°-60°	2115.5	99.7
0°-90°	2121.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2121.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5836	
5°	5677	522
15°	3851	1019
25°	797	416
35°	147	100
45°	51	41
55°	18	17
65°	5	5
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5836.0
2.5°	5801.0
5°	5677.2
7.5°	5430.3
10°	5058.2
12.5°	4534.3
15°	3850.7
17.5°	3014.6
20°	2124.7
22.5°	1354.9
25°	797.3
27.5°	450.7
30°	284.2
32.5°	199.6
35°	147.4
37.5°	114.0
40°	90.1
42.5°	69.4
45°	50.6
47.5°	37.9
50°	29.3
52.5°	23.3
55°	18.4
57.5°	15.0
60°	11.8
62.5°	8.6
65°	5.4
67.5°	1.9
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)