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: P745082

Luminaire Tested: LD4D25D010-EU4DR3020359040-4LBCSSQMMS

Issue Date: 1/30/2024

Test Information

Test Method:	LM-79-2019
Report Number:	P745082
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/30/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LD4D25D010-EU4DR3020359040-4LBCSSQMMS
Description:	4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 30° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2305.2 lumens
Efficiency:	N/A
Efficacy:	91.8 lumens/watt
Spacing Criteria (0/90/45):	0.52 / 0.52 / 0.49
Luminous Opening:	Rectangular (W 0.38' x L: 0.38' 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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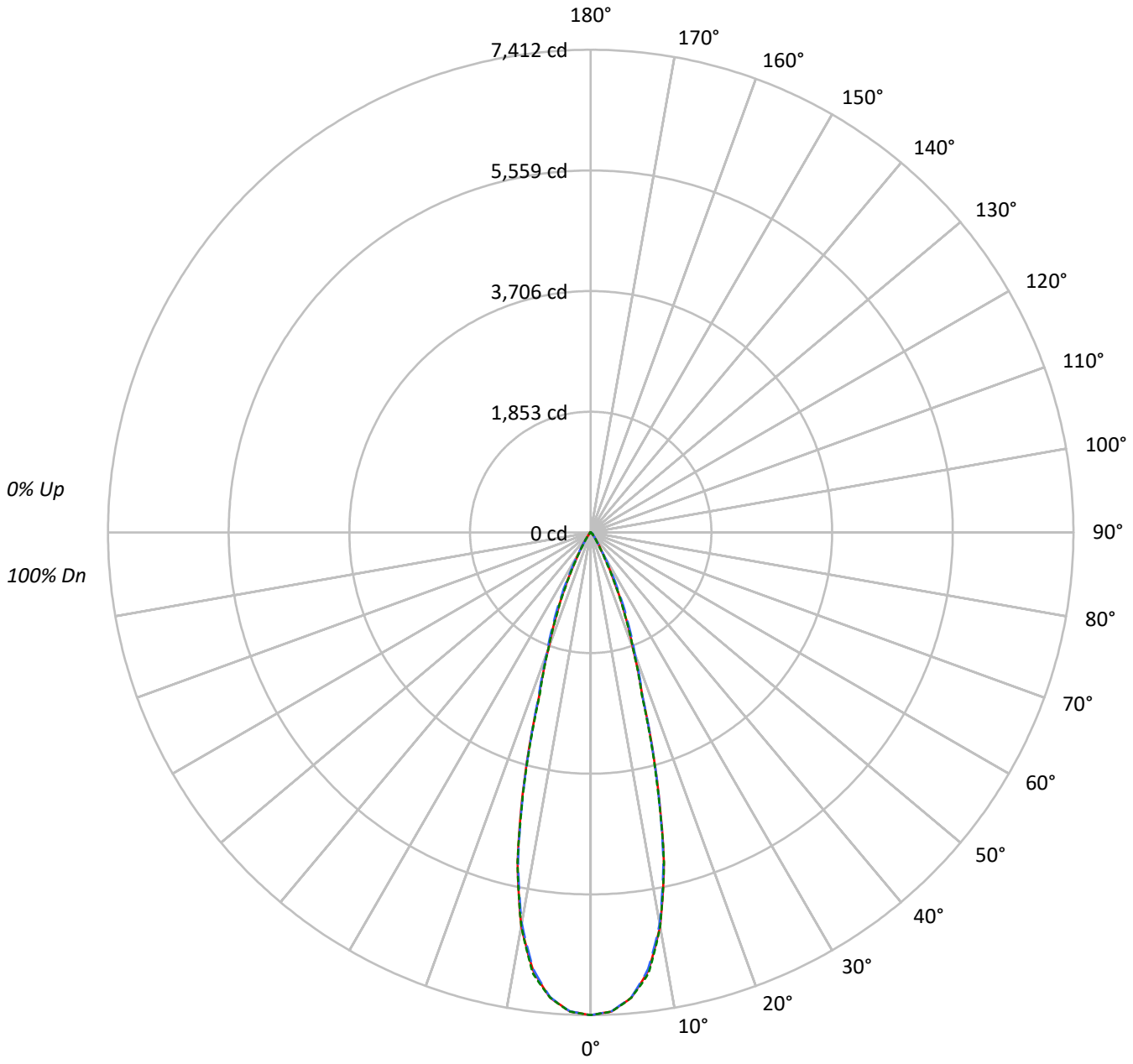
Luminous Intensity Polar Plot



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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	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	83	82
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	567363	567363	567363
5°	551074	550436	551105
10°	477320	473954	477203
15°	311427	309755	308194
20°	154856	160663	154652
25°	78012	87970	76408
30°	31226	34028	27214
35°	14484	13876	11624
40°	6255	6944	5895
45°	4406	5477	4449
50°	1512	3989	1608
55°	867	1655	921
60°	612	735	612
65°	398	398	398
70°	246	157	246
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 5477 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.8	28.3
10°-20°	1049.7	45.5
20°-30°	453.6	19.7
30°-40°	103.4	4.5
40°-50°	35.5	1.5
50°-60°	8.7	0.4
60°-70°	2.2	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°	2155.2	93.5
0°-40°	2258.6	98.0
0°-60°	2302.7	99.9
0°-90°	2305.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2305.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7412	7412	7412	7412	7412	
5°	7172	7165	7164	7179	7172	652
15°	3930	3883	3909	3896	3889	1052
25°	924	958	1042	934	905	442
35°	155	158	148	147	124	105
45°	41	51	51	51	41	29
55°	6	7	12	7	7	6
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*7412.3*	*7412.3*	*7412.3*	*7412.3*	*7412.3*
2.5°	*7363.2*	7358.1	7361.0	7364.7	7366.1
5°	*7172.1*	7165.3	7163.8	7178.7	7172.5
7.5°	*6786.8*	6776.9	6762.0	6795.9	6827.5
10°	*6141.2*	6130.2	6097.9	6113.9	6139.7
12.5°	*5188.1*	5152.8	5152.0	5203.0	5196.1
15°	*3930.0*	3882.7	3908.9	3896.1	3889.2
17.5°	*2642.8*	2624.6	2659.5	2649.0	2603.5
20°	*1901.1*	1905.9	1972.4	1939.0	1898.6
22.5°	*1387.3*	1404.4	1483.4	1397.1	1365.5
25°	*923.7*	958.5	1041.6	934.2	904.7
27.5°	*568.1*	584.1	668.2	560.8	544.8
30°	*353.3*	345.4	385.0	330.4	307.9
32.5°	*231.8*	221.6	234.3	210.3	192.2
35°	*155.0*	158.3	148.5	147.4	124.4
37.5°	*96.8*	111.4	98.3	104.8	80.0
40°	*62.6*	80.8	69.5	76.8	59.0
42.5°	*51.3*	62.2	57.1	60.8	52.4
45°	*40.7*	50.6	50.6	50.6	41.1
47.5°	*22.6*	33.9	43.3	34.5	24.0
50°	*12.7*	17.1	33.5	17.8	13.5
52.5°	*8.7*	9.8	22.9	10.2	9.1
55°	*6.5*	6.9	12.4	7.3	6.9
57.5°	*5.1*	5.4	6.5	5.4	5.1
60°	*4.0*	4.0	4.8	4.4	4.0
62.5°	*2.9*	2.9	3.3	2.9	2.9
65°	*2.2*	2.2	2.2	2.2	2.2
67.5°	*1.1*	1.4	1.4	1.4	1.4
70°	*1.1*	0.7	0.7	0.7	1.1
72.5°	*0.7*	0.3	0.3	0.3	0.3
75°	*0.0*	0.0	0.3	0.0	0.0
77.5°	*0.0*	0.0	0.0	0.0	0.0
80°	*0.0*	0.0	0.0	0.0	0.0
82.5°	*0.0*	0.0	0.0	0.0	0.0
85°	*0.0*	0.0	0.0	0.0	0.0
87.5°	*0.0*	0.0	0.0	0.0	0.0
90°	*0.0*	0.0	0.0	0.0	0.0

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0°-180° 45°-225° 90°-270°

(END OF REPORT)