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: P745068

Luminaire Tested: LD4D25D010-EU4DR3020359035-4LBCSSQMB

Issue Date: 1/30/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P745068
	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-EU4DR3020359035-4LBCSSQMB
Description:	4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2243.1 lumens
Efficiency:	N/A
Efficacy:	89.4 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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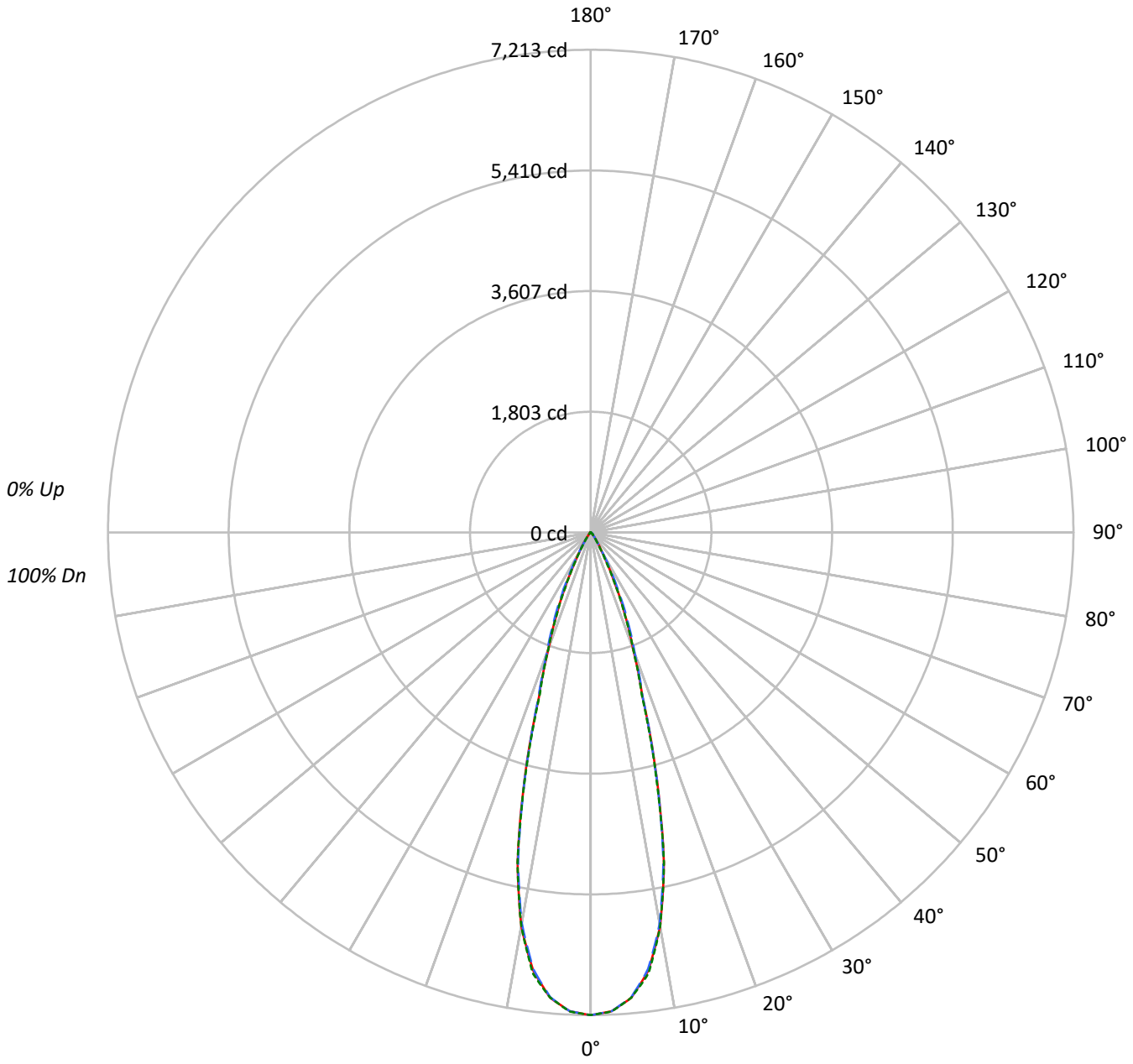
Luminous Intensity Polar Plot



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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	86	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°	552100	552100	552100
5°	536252	535622	536275
10°	464472	461200	464363
15°	303043	301419	299905
20°	150693	156346	150490
25°	75909	85596	74347
30°	30395	33118	26480
35°	14100	13502	11316
40°	6085	6765	5735
45°	4287	5326	4330
50°	1477	3882	1560
55°	854	1601	894
60°	597	704	597
65°	380	380	380
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: 5326 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.3	28.3
10°-20°	1021.5	45.5
20°-30°	441.4	19.7
30°-40°	100.6	4.5
40°-50°	34.5	1.5
50°-60°	8.4	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°	2097.2	93.5
0°-40°	2197.8	98.0
0°-60°	2240.8	99.9
0°-90°	2243.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2243.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7213	7213	7213	7213	7213	
5°	6979	6972	6971	6986	6980	635
15°	3824	3778	3804	3791	3785	1024
25°	899	933	1014	909	880	430
35°	151	154	144	143	121	102
45°	40	49	49	49	40	28
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°	*7212.9*	*7212.9*	*7212.9*	*7212.9*	*7212.9*
2.5°	*7165.1*	7160.2	7163.0	7166.5	7168.0
5°	*6979.2*	6972.5	6971.0	6985.5	6979.5
7.5°	*6604.2*	6594.6	6580.1	6613.0	6643.8
10°	*5975.9*	5965.3	5933.8	5949.3	5974.5
12.5°	*5048.4*	5014.1	5013.4	5063.0	5056.2
15°	*3824.2*	3778.2	3803.7	3791.3	3784.6
17.5°	*2571.7*	2554.0	2588.0	2577.7	2533.4
20°	*1850.0*	1854.6	1919.4	1886.8	1847.5
22.5°	*1349.9*	1366.6	1443.4	1359.5	1328.7
25°	*898.8*	932.8	1013.5	909.0	880.3
27.5°	*552.8*	568.4	650.2	545.7	530.2
30°	*343.9*	336.1	374.7	321.5	299.6
32.5°	*225.6*	215.7	228.0	204.7	187.0
35°	*150.9*	154.1	144.5	143.4	121.1
37.5°	*94.2*	108.3	95.6	102.0	77.9
40°	*60.9*	78.6	67.7	74.7	57.4
42.5°	*49.9*	60.6	55.6	59.1	51.0
45°	*39.6*	49.2	49.2	49.2	40.0
47.5°	*21.9*	32.9	42.2	33.6	23.4
50°	*12.4*	16.6	32.6	17.4	13.1
52.5°	*8.5*	9.6	22.3	9.9	8.9
55°	*6.4*	6.7	12.0	7.1	6.7
57.5°	*5.0*	5.3	6.4	5.3	5.0
60°	*3.9*	3.9	4.6	4.2	3.9
62.5°	*2.8*	2.8	3.2	2.8	2.8
65°	*2.1*	2.1	2.1	2.1	2.1
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

Report Generated By 670245859 / DESKTOP-T8S5UU9

0°-180° 45°-225° 90°-270°

(END OF REPORT)