

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: P745057

Luminaire Tested: LD4D25D010-EU4DR3020359030-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745057
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-EU4DR3020359030-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2125.2 lumens
Efficiency: N/A
Efficacy: 84.7 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

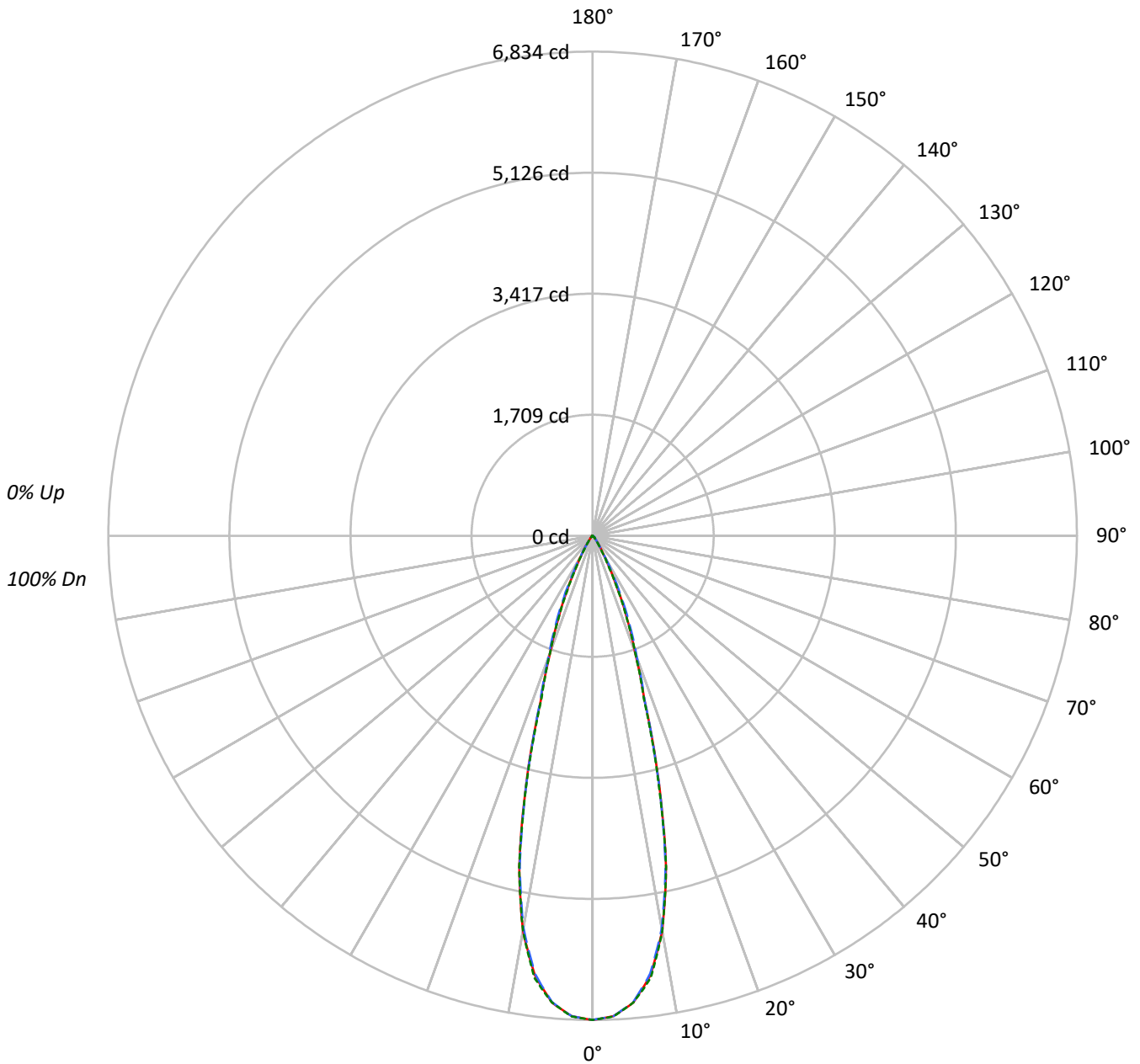


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	523067	523067	523067
5°	508046	507454	508077
10°	440051	436942	439942
15°	287107	285570	284128
20°	142768	148119	142572
25°	71915	81095	70437
30°	28796	31368	25084
35°	13362	12792	10727
40°	5765	6405	5436
45°	4070	5044	4103
50°	1393	3680	1477
55°	801	1521	854
60°	566	674	566
65°	362	362	362
70°	224	157	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5044 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.9	28.3
10°-20°	967.8	45.5
20°-30°	418.2	19.7
30°-40°	95.3	4.5
40°-50°	32.7	1.5
50°-60°	8.0	0.4
60°-70°	2.1	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°	1986.9	93.5
0°-40°	2082.2	98.0
0°-60°	2122.9	99.9
0°-90°	2125.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2125.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6834	6834	6834	6834	6834	
5°	6612	6606	6604	6618	6612	601
15°	3623	3580	3604	3592	3586	970
25°	852	884	960	861	834	408
35°	143	146	137	136	115	97
45°	38	47	47	47	38	27
55°	6	6	11	7	6	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°	6833.6	6833.6	6833.6	6833.6	6833.6
2.5°	6788.3	6783.6	6786.3	6789.6	6791.0
5°	6612.1	6605.8	6604.4	6618.2	6612.5
7.5°	6256.9	6247.8	6234.0	6265.2	6294.4
10°	5661.7	5651.6	5621.7	5636.5	5660.3
12.5°	4783.0	4750.4	4749.8	4796.7	4790.3
15°	3623.1	3579.5	3603.7	3591.9	3585.5
17.5°	2436.4	2419.7	2451.9	2442.1	2400.2
20°	1752.7	1757.1	1818.4	1787.5	1750.3
22.5°	1278.9	1294.7	1367.5	1288.0	1258.8
25°	851.5	883.7	960.2	861.3	834.0
27.5°	523.7	538.5	616.0	517.0	502.2
30°	325.8	318.4	354.9	304.6	283.8
32.5°	213.7	204.3	216.1	193.9	177.2
35°	143.0	145.9	136.9	135.9	114.8
37.5°	89.3	102.7	90.6	96.6	73.8
40°	57.7	74.5	64.1	70.8	54.4
42.5°	47.3	57.4	52.7	56.0	48.3
45°	37.6	46.6	46.6	46.6	37.9
47.5°	20.8	31.2	39.9	31.9	22.1
50°	11.7	15.8	30.9	16.4	12.4
52.5°	8.1	9.1	21.1	9.4	8.4
55°	6.0	6.4	11.4	6.7	6.4
57.5°	4.7	5.0	6.0	5.0	4.7
60°	3.7	3.7	4.4	4.0	3.7
62.5°	2.7	2.7	3.0	2.7	2.7
65°	2.0	2.0	2.0	2.0	2.0
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.7	0.7	0.7	1.0
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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