

Signify Classified - Internal
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: P745083

Luminaire Tested: LD4D25D010-EU4DR3020359040-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745083
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-EU4DR3020359040-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2305.5 lumens
Efficiency: N/A
Efficacy: 91.9 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 (A_{in}): 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



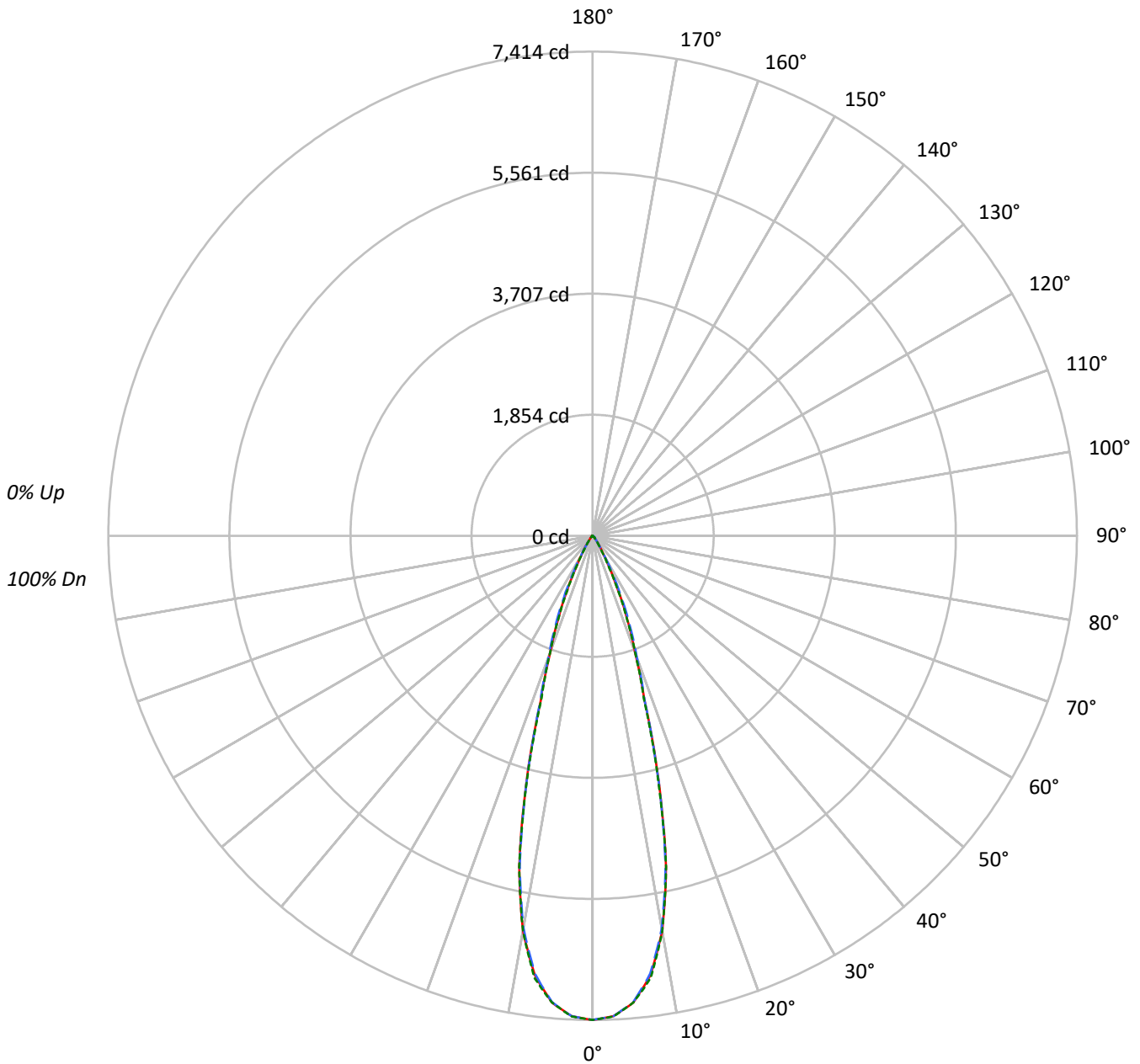
Downlight



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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°	567454	567454	567454
5°	551166	550521	551189
10°	477390	474024	477281
15°	311475	309803	308242
20°	154880	160696	154676
25°	78021	87978	76424
30°	31235	34037	27214
35°	14484	13876	11634
40°	6255	6944	5895
45°	4417	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°	651.9	28.3
10°-20°	1049.9	45.5
20°-30°	453.7	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°	2155.5	93.5
0°-40°	2258.9	98.0
0°-60°	2303.1	99.9
0°-90°	2305.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2305.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7414	7414	7414	7414	7414	
5°	7173	7166	7165	7180	7174	652
15°	3931	3883	3910	3897	3890	1052
25°	924	959	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°	7413.5	7413.5	7413.5	7413.5	7413.5
2.5°	7364.4	7359.3	7362.2	7365.9	7367.3
5°	7173.3	7166.4	7164.9	7179.8	7173.6
7.5°	6787.8	6778.0	6763.1	6796.9	6828.6
10°	6142.1	6131.2	6098.8	6114.8	6140.7
12.5°	5188.9	5153.6	5152.8	5203.8	5196.9
15°	3930.6	3883.3	3909.5	3896.8	3889.8
17.5°	2643.2	2625.0	2660.0	2649.4	2603.9
20°	1901.4	1906.2	1972.8	1939.3	1898.9
22.5°	1387.5	1404.6	1483.6	1397.3	1365.6
25°	923.8	958.7	1041.7	934.3	904.9
27.5°	568.2	584.2	668.3	560.9	544.9
30°	353.4	345.4	385.1	330.5	307.9
32.5°	231.9	221.7	234.4	210.4	192.2
35°	155.0	158.3	148.5	147.4	124.5
37.5°	96.8	111.4	98.3	104.8	80.1
40°	62.6	80.8	69.5	76.8	59.0
42.5°	51.3	62.2	57.1	60.8	52.4
45°	40.8	50.6	50.6	50.6	41.1
47.5°	22.6	33.9	43.3	34.6	24.0
50°	12.7	17.1	33.5	17.8	13.5
52.5°	8.7	9.9	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°

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