

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: P749117

Luminaire Tested: LD4D50D010-EU4DR3040509030-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749117
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: LD4D50D010-EU4DR3040509030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 4215.8 lumens
Efficiency: N/A
Efficacy: 89.7 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): 47
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

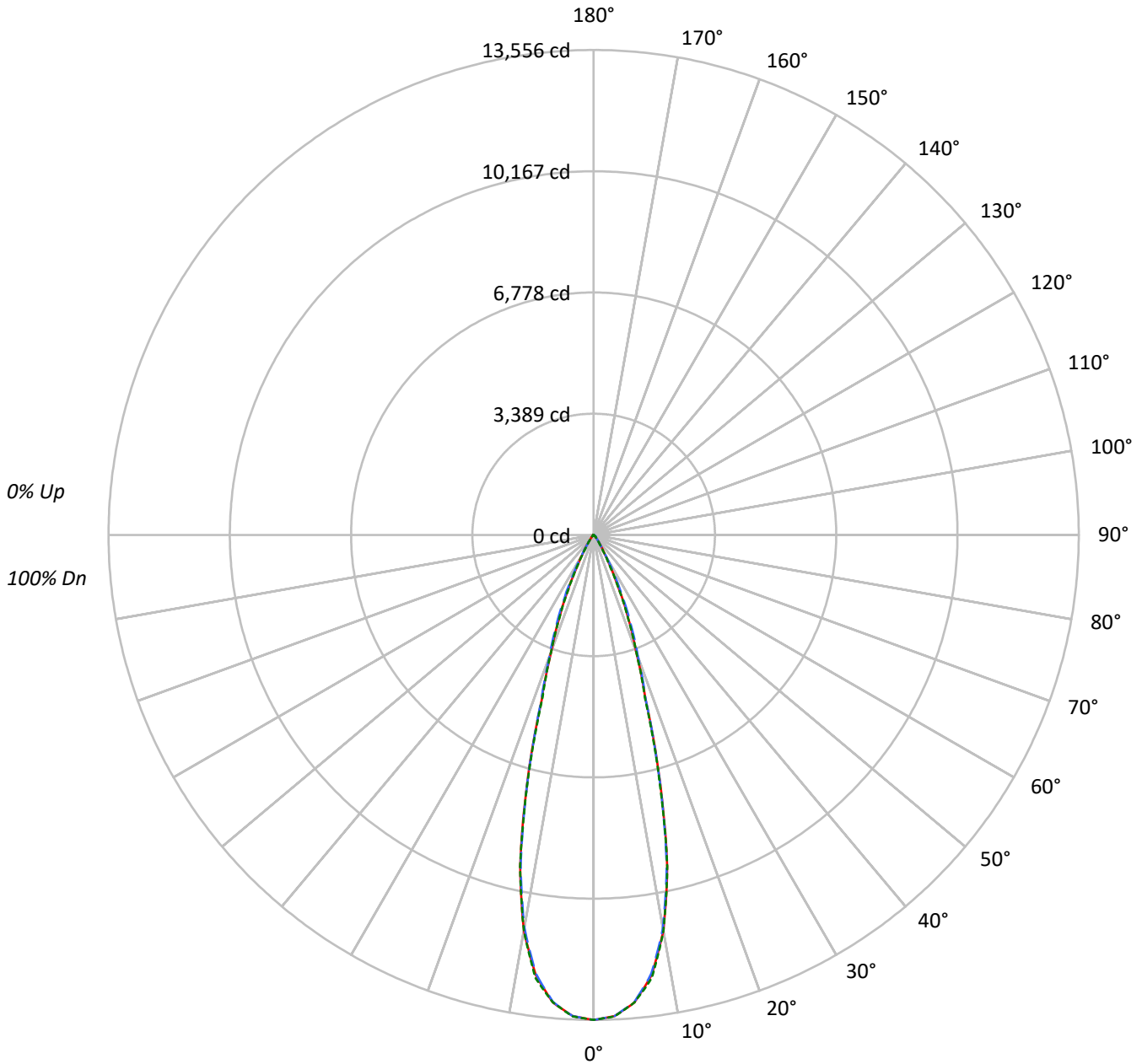


Downlight

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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	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°	1037607	1037607	1037607
5°	1007816	1006641	1007870
10°	872921	866765	872718
15°	569539	566480	563628
20°	283205	293827	282823
25°	142655	160872	139733
30°	57114	62232	49761
35°	26491	25370	21267
40°	11441	12700	10771
45°	8065	10013	8140
50°	2775	7288	2929
55°	1601	3016	1681
60°	1118	1332	1118
65°	724	724	724
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10013 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1192.0	28.3
10°-20°	1919.8	45.5
20°-30°	829.6	19.7
30°-40°	189.1	4.5
40°-50°	64.9	1.5
50°-60°	15.9	0.4
60°-70°	4.1	0.1
70°-80°	0.4	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°	3941.4	93.5
0°-40°	4130.4	98.0
0°-60°	4211.2	99.9
0°-90°	4215.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4215.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13556	13556	13556	13556	13556	
5°	13116	13104	13101	13128	13117	1193
15°	7187	7101	7149	7125	7113	1924
25°	1689	1753	1905	1708	1654	809
35°	284	290	272	270	228	192
45°	74	92	92	92	75	53
55°	12	13	23	13	13	12
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
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°	13555.8	13555.8	13555.8	13555.8	13555.8
2.5°	13465.9	13456.6	13461.9	13468.6	13471.2
5°	13116.5	13103.9	13101.2	13128.5	13117.2
7.5°	12411.7	12393.7	12366.4	12428.3	12486.2
10°	11231.0	11211.1	11151.8	11181.1	11228.4
12.5°	9488.0	9423.4	9422.1	9515.3	9502.6
15°	7187.2	7100.7	7148.6	7125.3	7112.6
17.5°	4833.2	4799.9	4863.8	4844.5	4761.3
20°	3476.8	3485.4	3607.2	3546.0	3472.1
22.5°	2537.0	2568.3	2712.7	2555.0	2497.1
25°	1689.1	1753.0	1904.8	1708.4	1654.5
27.5°	1038.9	1068.2	1221.9	1025.6	996.3
30°	646.2	631.6	704.1	604.3	563.0
32.5°	424.0	405.3	428.6	384.7	351.4
35°	283.5	289.5	271.5	269.5	227.6
37.5°	177.0	203.7	179.7	191.7	146.4
40°	114.5	147.8	127.1	140.4	107.8
42.5°	93.8	113.8	104.5	111.1	95.8
45°	74.5	92.5	92.5	92.5	75.2
47.5°	41.3	61.9	79.2	63.2	43.9
50°	23.3	31.3	61.2	32.6	24.6
52.5°	16.0	18.0	41.9	18.6	16.6
55°	12.0	12.6	22.6	13.3	12.6
57.5°	9.3	10.0	12.0	10.0	9.3
60°	7.3	7.3	8.7	8.0	7.3
62.5°	5.3	5.3	6.0	5.3	5.3
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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