

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: P754615

Luminaire Tested: LD4D85BD010-EU4DR3070959050-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754615
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: LD4D85BD010-EU4DR3070959050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8850.1 lumens
Efficiency: N/A
Efficacy: 100.9 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): 87.7
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

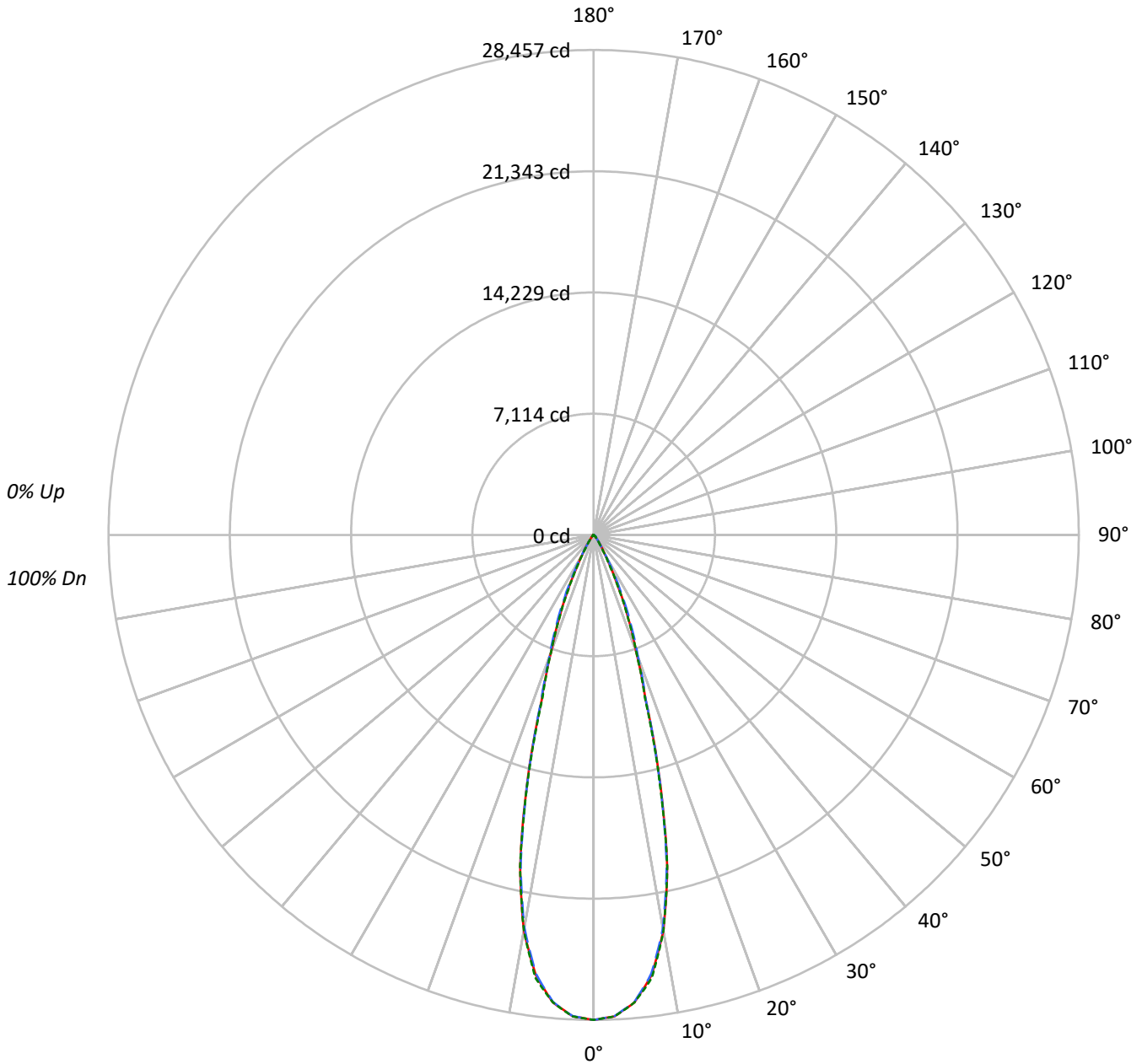


Downlight

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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																			
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°	2178226	2178226	2178226
5°	2115696	2113230	2115804
10°	1832511	1819594	1832076
15°	1195627	1189200	1183225
20°	594529	616832	593731
25°	299482	337715	293342
30°	119903	130650	104471
35°	55617	53262	44647
40°	24011	26669	22612
45°	16941	21022	17092
50°	5823	15302	6156
55°	3350	6339	3536
60°	2358	2786	2358
65°	1521	1521	1521
70°	940	627	940
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 21022 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2502.4	28.3
10°-20°	4030.1	45.5
20°-30°	1741.5	19.7
30°-40°	396.9	4.5
40°-50°	136.3	1.5
50°-60°	33.3	0.4
60°-70°	8.6	0.1
70°-80°	0.9	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°	8274.1	93.5
0°-40°	8671.0	98.0
0°-60°	8840.6	99.9
0°-90°	8850.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8850.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28457	28457	28457	28457	28457	
5°	27535	27509	27503	27560	27537	2504
15°	15088	14906	15007	14958	14932	4040
25°	3546	3680	3999	3586	3473	1697
35°	595	608	570	566	478	404
45°	156	194	194	194	158	111
55°	25	26	48	28	26	24
65°	8	8	8	8	8	8
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28457.4	28457.4	28457.4	28457.4	28457.4
2.5°	28268.8	28249.3	28260.4	28274.4	28280.0
5°	27535.3	27508.8	27503.2	27560.4	27536.7
7.5°	26055.7	26018.0	25960.7	26090.6	26212.2
10°	23577.1	23535.2	23410.9	23472.3	23571.5
12.5°	19918.0	19782.4	19779.6	19975.2	19948.7
15°	15088.0	14906.3	15006.9	14958.0	14931.5
17.5°	10146.2	10076.3	10210.5	10170.0	9995.3
20°	7298.8	7316.9	7572.6	7444.1	7289.0
22.5°	5326.0	5391.7	5694.8	5363.7	5242.2
25°	3546.0	3680.1	3998.7	3586.5	3473.3
27.5°	2181.0	2242.4	2565.2	2153.0	2091.6
30°	1356.6	1325.9	1478.2	1268.6	1182.0
32.5°	890.0	850.9	899.8	807.6	737.7
35°	595.2	607.8	570.0	565.9	477.8
37.5°	371.6	427.5	377.2	402.4	307.4
40°	240.3	310.2	266.9	294.8	226.3
42.5°	197.0	238.9	219.4	233.3	201.2
45°	156.5	194.2	194.2	194.2	157.9
47.5°	86.6	129.9	166.3	132.7	92.2
50°	48.9	65.7	128.5	68.5	51.7
52.5°	33.5	37.7	88.0	39.1	34.9
55°	25.1	26.5	47.5	27.9	26.5
57.5°	19.6	21.0	25.1	21.0	19.6
60°	15.4	15.4	18.2	16.8	15.4
62.5°	11.2	11.2	12.6	11.2	11.2
65°	8.4	8.4	8.4	8.4	8.4
67.5°	4.2	5.6	5.6	5.6	5.6
70°	4.2	2.8	2.8	2.8	4.2
72.5°	2.8	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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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