

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: P754567

Luminaire Tested: LD4D85BD010-EU4DR3070959027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754567
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-EU4DR3070959027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8488.1 lumens
Efficiency: N/A
Efficacy: 96.8 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

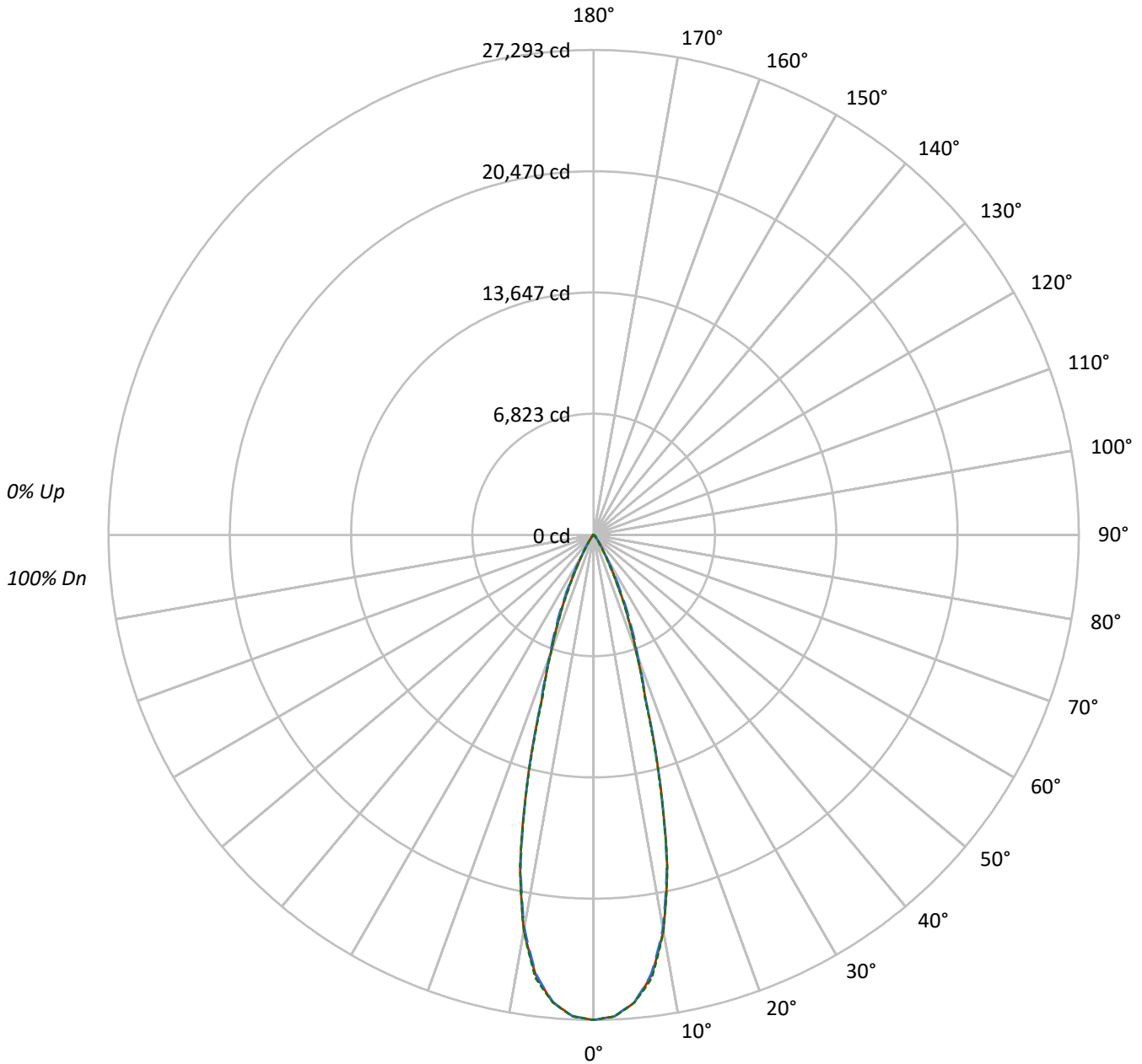
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2089122	2089122	2089122
5°	2029148	2026782	2029256
10°	1757554	1745157	1757134
15°	1146718	1140560	1134823
20°	570207	591605	569441
25°	287227	323898	281349
30°	115006	125303	100193
35°	53337	51085	42825
40°	23032	25570	21693
45°	16248	20167	16389
50°	5585	14683	5906
55°	3216	6085	3403
60°	2250	2664	2250
65°	1449	1449	1449
70°	895	604	895
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 20167 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2400.0	28.3
10°-20°	3865.3	45.5
20°-30°	1670.3	19.7
30°-40°	380.7	4.5
40°-50°	130.7	1.5
50°-60°	31.9	0.4
60°-70°	8.3	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°	7935.6	93.5
0°-40°	8316.3	98.0
0°-60°	8479.0	99.9
0°-90°	8488.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8488.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27293	27293	27293	27293	27293	
5°	26409	26384	26378	26433	26410	2402
15°	14471	14297	14393	14346	14321	3875
25°	3401	3530	3835	3440	3331	1628
35°	571	583	547	543	458	387
45°	150	186	186	186	151	107
55°	24	26	46	27	26	23
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°	27293.3	27293.3	27293.3	27293.3	27293.3
2.5°	27112.4	27093.7	27104.4	27117.8	27123.2
5°	26408.9	26383.5	26378.1	26433.1	26410.3
7.5°	24989.9	24953.7	24898.7	25023.4	25139.9
10°	22612.7	22572.5	22453.2	22512.2	22607.3
12.5°	19103.2	18973.2	18970.5	19158.1	19132.7
15°	14470.8	14296.6	14393.1	14346.2	14320.7
17.5°	9731.2	9664.2	9792.8	9753.9	9586.4
20°	7000.2	7017.6	7262.9	7139.6	6990.8
22.5°	5108.1	5171.1	5461.9	5144.3	5027.7
25°	3400.9	3529.6	3835.1	3439.8	3331.3
27.5°	2091.8	2150.7	2460.3	2065.0	2006.0
30°	1301.2	1271.7	1417.7	1216.7	1133.6
32.5°	853.6	816.1	863.0	774.5	707.5
35°	570.8	582.9	546.7	542.7	458.3
37.5°	356.4	410.0	361.8	385.9	294.8
40°	230.5	297.5	255.9	282.7	217.1
42.5°	188.9	229.1	210.4	223.8	193.0
45°	150.1	186.3	186.3	186.3	151.4
47.5°	83.1	124.6	159.5	127.3	88.4
50°	46.9	63.0	123.3	65.7	49.6
52.5°	32.2	36.2	84.4	37.5	33.5
55°	24.1	25.5	45.6	26.8	25.5
57.5°	18.8	20.1	24.1	20.1	18.8
60°	14.7	14.7	17.4	16.1	14.7
62.5°	10.7	10.7	12.1	10.7	10.7
65°	8.0	8.0	8.0	8.0	8.0
67.5°	4.0	5.4	5.4	5.4	5.4
70°	4.0	2.7	2.7	2.7	4.0
72.5°	2.7	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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Scaled Data Report





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

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