

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: P754566

Luminaire Tested: LD4D85BD010-EU4DR3070959027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754566
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-EU4DR3070959027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-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: 8083.9 lumens
Efficiency: N/A
Efficacy: 92.2 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

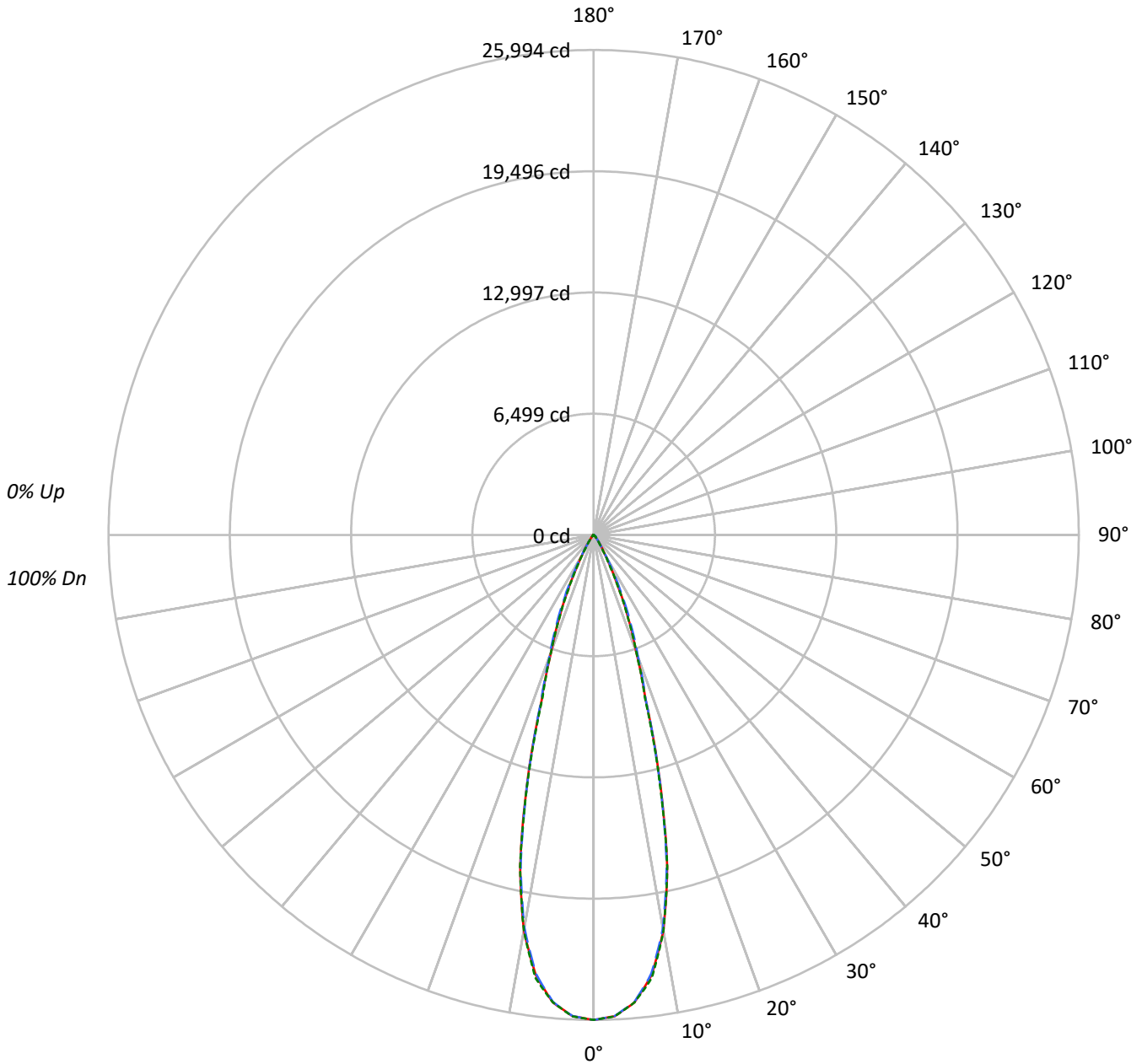
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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						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°	1989646	1989646	1989646
5°	1932527	1930268	1932620
10°	1673861	1662054	1673464
15°	1092111	1086247	1080787
20°	543058	563430	542324
25°	273554	308477	267946
30°	109526	119337	95429
35°	50805	48655	40788
40°	21933	24361	20654
45°	15469	19203	15609
50°	5323	13980	5621
55°	3069	5792	3229
60°	2143	2541	2143
65°	1395	1395	1395
70°	850	582	850
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 19203 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2285.7	28.3
10°-20°	3681.2	45.5
20°-30°	1590.8	19.7
30°-40°	362.6	4.5
40°-50°	124.5	1.5
50°-60°	30.4	0.4
60°-70°	7.9	0.1
70°-80°	0.8	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°	7557.7	93.5
0°-40°	7920.3	98.0
0°-60°	8075.2	99.9
0°-90°	8083.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8083.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25994	25994	25994	25994	25994	
5°	25151	25127	25122	25174	25153	2288
15°	13782	13616	13708	13663	13639	3690
25°	3239	3362	3652	3276	3173	1550
35°	544	555	521	517	436	369
45°	143	177	177	177	144	101
55°	23	24	43	26	24	22
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°	25993.7	25993.7	25993.7	25993.7	25993.7
2.5°	25821.4	25803.5	25813.7	25826.5	25831.6
5°	25151.4	25127.1	25122.0	25174.3	25152.6
7.5°	23799.9	23765.4	23713.1	23831.8	23942.8
10°	21535.9	21497.6	21384.0	21440.2	21530.8
12.5°	18193.5	18069.7	18067.2	18245.8	18221.6
15°	13781.7	13615.8	13707.7	13663.0	13638.8
17.5°	9267.8	9204.0	9326.5	9289.5	9129.9
20°	6666.9	6683.5	6917.0	6799.6	6657.9
22.5°	4864.9	4924.9	5201.8	4899.3	4788.3
25°	3239.0	3361.5	3652.5	3276.0	3172.6
27.5°	1992.1	2048.3	2343.1	1966.6	1910.5
30°	1239.2	1211.1	1350.2	1158.8	1079.7
32.5°	812.9	777.2	821.9	737.6	673.8
35°	543.7	555.1	520.7	516.9	436.5
37.5°	339.5	390.5	344.6	367.5	280.8
40°	219.5	283.3	243.8	269.3	206.7
42.5°	179.9	218.2	200.4	213.1	183.8
45°	142.9	177.4	177.4	177.4	144.2
47.5°	79.1	118.7	151.9	121.2	84.2
50°	44.7	60.0	117.4	62.5	47.2
52.5°	30.6	34.5	80.4	35.7	31.9
55°	23.0	24.2	43.4	25.5	24.2
57.5°	17.9	19.1	23.0	19.1	17.9
60°	14.0	14.0	16.6	15.3	14.0
62.5°	10.2	10.2	11.5	10.2	10.2
65°	7.7	7.7	7.7	7.7	7.7
67.5°	3.8	5.1	5.1	5.1	5.1
70°	3.8	2.6	2.6	2.6	3.8
72.5°	2.6	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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