

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: P753839

Luminaire Tested: LD4D80BD010-EU4DR3070959050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753839
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: LD4D80BD010-EU4DR3070959050-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 8750.9 lumens
Efficiency: N/A
Efficacy: 110.9 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

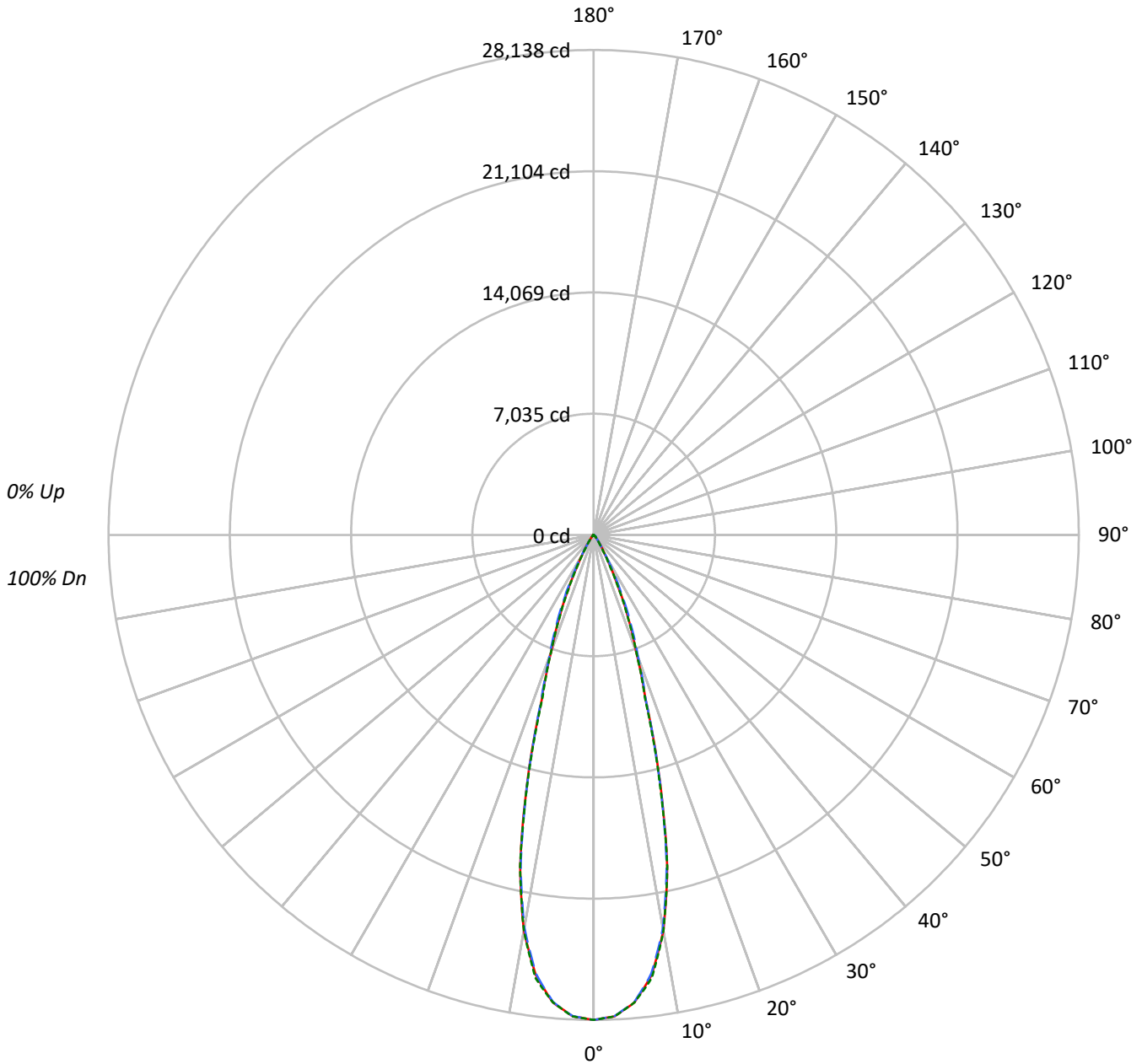
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2153793	2153793	2153793
5°	2091969	2089526	2092069
10°	1811961	1799183	1811534
15°	1182211	1175863	1169952
20°	587858	609916	587068
25°	296121	333923	290057
30°	118559	129183	103295
35°	54991	52664	44151
40°	23741	26369	22362
45°	16746	20784	16898
50°	5763	15135	6085
55°	3323	6272	3496
60°	2327	2756	2327
65°	1503	1503	1503
70°	918	627	918
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 20784 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2474.3	28.3
10°-20°	3984.9	45.5
20°-30°	1722.0	19.7
30°-40°	392.5	4.5
40°-50°	134.8	1.5
50°-60°	32.9	0.4
60°-70°	8.5	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°	8181.3	93.5
0°-40°	8573.7	98.0
0°-60°	8741.4	99.9
0°-90°	8750.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8750.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28138	28138	28138	28138	28138	
5°	27226	27200	27195	27251	27228	2476
15°	14919	14739	14839	14790	14764	3995
25°	3506	3639	3954	3546	3434	1678
35°	588	601	564	560	472	399
45°	155	192	192	192	156	110
55°	25	26	47	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°	28138.2	28138.2	28138.2	28138.2	28138.2
2.5°	27951.7	27932.4	27943.4	27957.3	27962.8
5°	27226.5	27200.2	27194.7	27251.3	27227.8
7.5°	25763.5	25726.2	25669.5	25798.0	25918.2
10°	23312.7	23271.2	23148.3	23209.1	23307.2
12.5°	19694.6	19560.6	19557.8	19751.2	19724.9
15°	14918.7	14739.1	14838.6	14790.3	14764.0
17.5°	10032.4	9963.3	10095.9	10055.9	9883.2
20°	7216.9	7234.9	7487.7	7360.6	7207.2
22.5°	5266.2	5331.2	5631.0	5303.5	5183.4
25°	3506.2	3638.9	3953.8	3546.3	3434.4
27.5°	2156.5	2217.3	2536.4	2128.9	2068.1
30°	1341.4	1311.0	1461.6	1254.4	1168.7
32.5°	880.0	841.3	889.7	798.5	729.4
35°	588.5	600.9	563.6	559.5	472.5
37.5°	367.5	422.7	373.0	397.9	303.9
40°	237.6	306.7	263.9	291.5	223.8
42.5°	194.8	236.2	216.9	230.7	198.9
45°	154.7	192.0	192.0	192.0	156.1
47.5°	85.7	128.5	164.4	131.2	91.2
50°	48.4	64.9	127.1	67.7	51.1
52.5°	33.2	37.3	87.0	38.7	34.5
55°	24.9	26.2	47.0	27.6	26.2
57.5°	19.3	20.7	24.9	20.7	19.3
60°	15.2	15.2	18.0	16.6	15.2
62.5°	11.1	11.1	12.4	11.1	11.1
65°	8.3	8.3	8.3	8.3	8.3
67.5°	4.1	5.5	5.5	5.5	5.5
70°	4.1	2.8	2.8	2.8	4.1
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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