

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: P755399

Luminaire Tested: LD4D90BD010-EU4DR3070959050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755399
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: LD4D90BD010-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: 9882.9 lumens
Efficiency: N/A
Efficacy: 99.9 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): 98.9
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

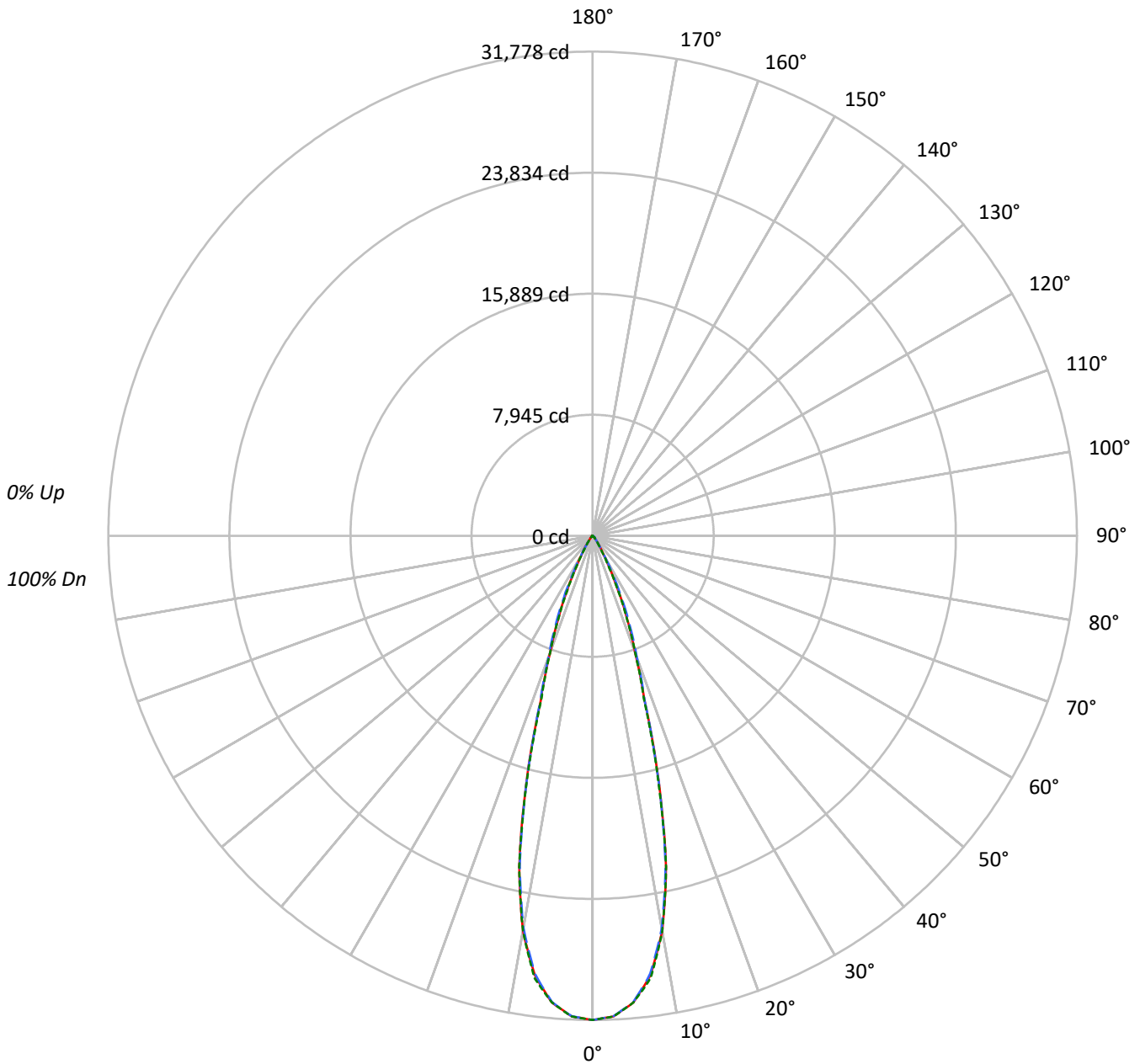


Downlight

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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°	2432419	2432419	2432419
5°	2362593	2359834	2362708
10°	2046362	2031936	2045880
15°	1335151	1327979	1321299
20°	663905	688815	663017
25°	334430	377123	327581
30°	133903	145897	116659
35°	62102	59485	49861
40°	26819	29776	25260
45°	18911	23479	19084
50°	6502	17088	6871
55°	3750	7073	3950
60°	2633	3108	2633
65°	1703	1703	1703
70°	1052	694	1052
75°	0	473	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 23479 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2794.4	28.3
10°-20°	4500.4	45.5
20°-30°	1944.8	19.7
30°-40°	443.3	4.5
40°-50°	152.2	1.5
50°-60°	37.2	0.4
60°-70°	9.6	0.1
70°-80°	1.0	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°	9239.6	93.5
0°-40°	9682.9	98.0
0°-60°	9872.2	99.9
0°-90°	9882.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9882.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31778	31778	31778	31778	31778	
5°	30749	30719	30713	30777	30750	2797
15°	16849	16646	16758	16704	16674	4511
25°	3960	4110	4465	4005	3879	1895
35°	665	679	637	632	534	451
45°	175	217	217	217	176	124
55°	28	30	53	31	30	27
65°	9	9	9	9	9	9
75°	0	0	2	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°	31778.3	31778.3	31778.3	31778.3	31778.3
2.5°	31567.7	31545.9	31558.3	31573.9	31580.2
5°	30748.6	30718.9	30712.7	30776.7	30750.1
7.5°	29096.3	29054.2	28990.2	29135.3	29271.1
10°	26328.5	26281.7	26142.9	26211.5	26322.3
12.5°	22242.3	22091.0	22087.9	22306.3	22276.7
15°	16848.7	16645.9	16758.2	16703.6	16673.9
17.5°	11330.2	11252.2	11402.0	11356.8	11161.7
20°	8150.5	8170.8	8456.3	8312.8	8139.6
22.5°	5947.5	6020.8	6359.4	5989.6	5853.9
25°	3959.8	4109.6	4465.3	4005.1	3878.7
27.5°	2435.5	2504.1	2864.5	2404.3	2335.6
30°	1515.0	1480.6	1650.7	1416.7	1319.9
32.5°	993.9	950.2	1004.8	901.8	823.8
35°	664.6	678.7	636.6	631.9	533.6
37.5°	415.0	477.4	421.3	449.3	343.2
40°	268.4	346.4	298.0	329.2	252.8
42.5°	220.0	266.8	245.0	260.6	224.7
45°	174.7	216.9	216.9	216.9	176.3
47.5°	96.7	145.1	185.7	148.2	103.0
50°	54.6	73.3	143.5	76.5	57.7
52.5°	37.4	42.1	98.3	43.7	39.0
55°	28.1	29.6	53.0	31.2	29.6
57.5°	21.8	23.4	28.1	23.4	21.8
60°	17.2	17.2	20.3	18.7	17.2
62.5°	12.5	12.5	14.0	12.5	12.5
65°	9.4	9.4	9.4	9.4	9.4
67.5°	4.7	6.2	6.2	6.2	6.2
70°	4.7	3.1	3.1	3.1	4.7
72.5°	3.1	1.6	1.6	1.6	1.6
75°	0.0	0.0	1.6	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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