

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: P749920

Luminaire Tested: LD4D55D010-EU4DR3055659040-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749920
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: LD4D55D010-EU4DR3055659040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4550.2 lumens
Efficiency: N/A
Efficacy: 78.2 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): 58.2
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

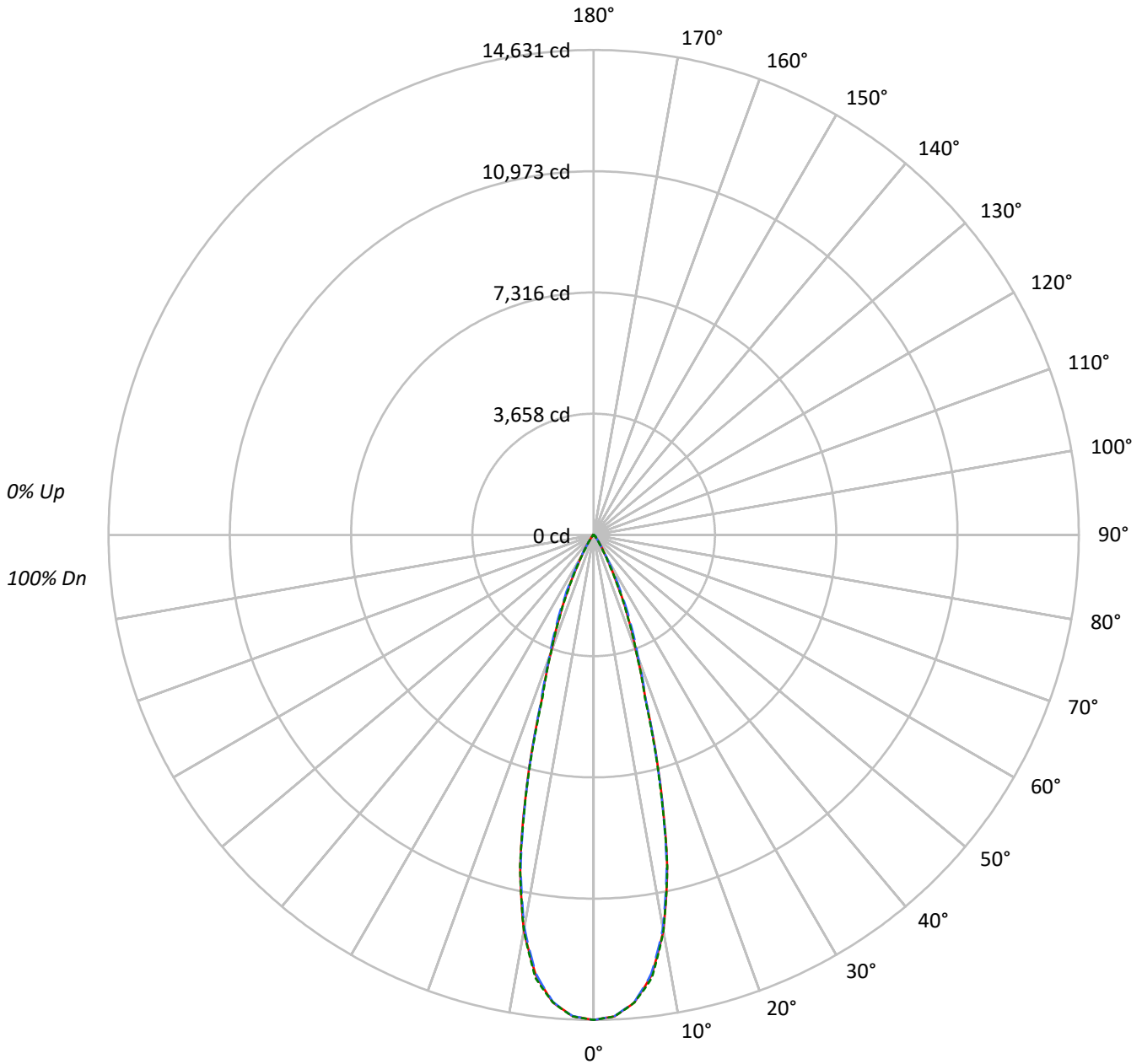


Downlight

TEST NUMBER: P749920

CATALOG NUMBER: LD4D55D010-EU4DR3055659040-4LBDP1B

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	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°	1119922	1119922	1119922
5°	1087772	1086504	1087826
10°	942181	935535	941955
15°	614724	611419	608345
20°	305671	317140	305264
25°	153981	173634	150822
30°	61648	67172	53711
35°	28593	27388	22959
40°	12350	13709	11631
45°	8714	10803	8790
50°	2989	7871	3168
55°	1721	3256	1815
60°	1209	1424	1209
65°	779	779	779
70°	492	313	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10803 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1286.6	28.3
10°-20°	2072.1	45.5
20°-30°	895.4	19.7
30°-40°	204.1	4.5
40°-50°	70.1	1.5
50°-60°	17.1	0.4
60°-70°	4.4	0.1
70°-80°	0.5	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°	4254.1	93.5
0°-40°	4458.2	98.0
0°-60°	4545.3	99.9
0°-90°	4550.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4550.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14631	14631	14631	14631	14631	
5°	14157	14144	14141	14170	14158	1288
15°	7757	7664	7716	7691	7677	2077
25°	1823	1892	2056	1844	1786	873
35°	306	312	293	291	246	208
45°	80	100	100	100	81	57
55°	13	14	24	14	14	13
65°	4	4	4	4	4	4
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°	14631.2	14631.2	14631.2	14631.2	14631.2
2.5°	14534.3	14524.2	14529.9	14537.1	14540.0
5°	14157.1	14143.5	14140.6	14170.1	14157.8
7.5°	13396.4	13377.0	13347.5	13414.4	13476.9
10°	12122.1	12100.5	12036.6	12068.2	12119.2
12.5°	10240.7	10171.0	10169.6	10270.2	10256.5
15°	7757.4	7664.0	7715.7	7690.6	7676.9
17.5°	5216.6	5180.7	5249.7	5228.8	5139.0
20°	3752.6	3762.0	3893.4	3827.3	3747.6
22.5°	2738.3	2772.1	2928.0	2757.7	2695.2
25°	1823.2	1892.1	2055.9	1844.0	1785.8
27.5°	1121.3	1152.9	1318.9	1107.0	1075.4
30°	697.5	681.7	760.0	652.3	607.7
32.5°	457.6	437.5	462.6	415.2	379.3
35°	306.0	312.5	293.1	290.9	245.7
37.5°	191.1	219.8	194.0	206.9	158.0
40°	123.6	159.5	137.2	151.6	116.4
42.5°	101.3	122.8	112.8	120.0	103.4
45°	80.5	99.8	99.8	99.8	81.2
47.5°	44.5	66.8	85.5	68.2	47.4
50°	25.1	33.8	66.1	35.2	26.6
52.5°	17.2	19.4	45.3	20.1	18.0
55°	12.9	13.6	24.4	14.4	13.6
57.5°	10.1	10.8	12.9	10.8	10.1
60°	7.9	7.9	9.3	8.6	7.9
62.5°	5.7	5.7	6.5	5.7	5.7
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.4	1.4	1.4	2.2
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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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