

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: P749896

Luminaire Tested: LD4D55D010-EU4DR3055659030-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749896
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-EU4DR3055659030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5610.3 lumens
Efficiency: N/A
Efficacy: 96.4 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

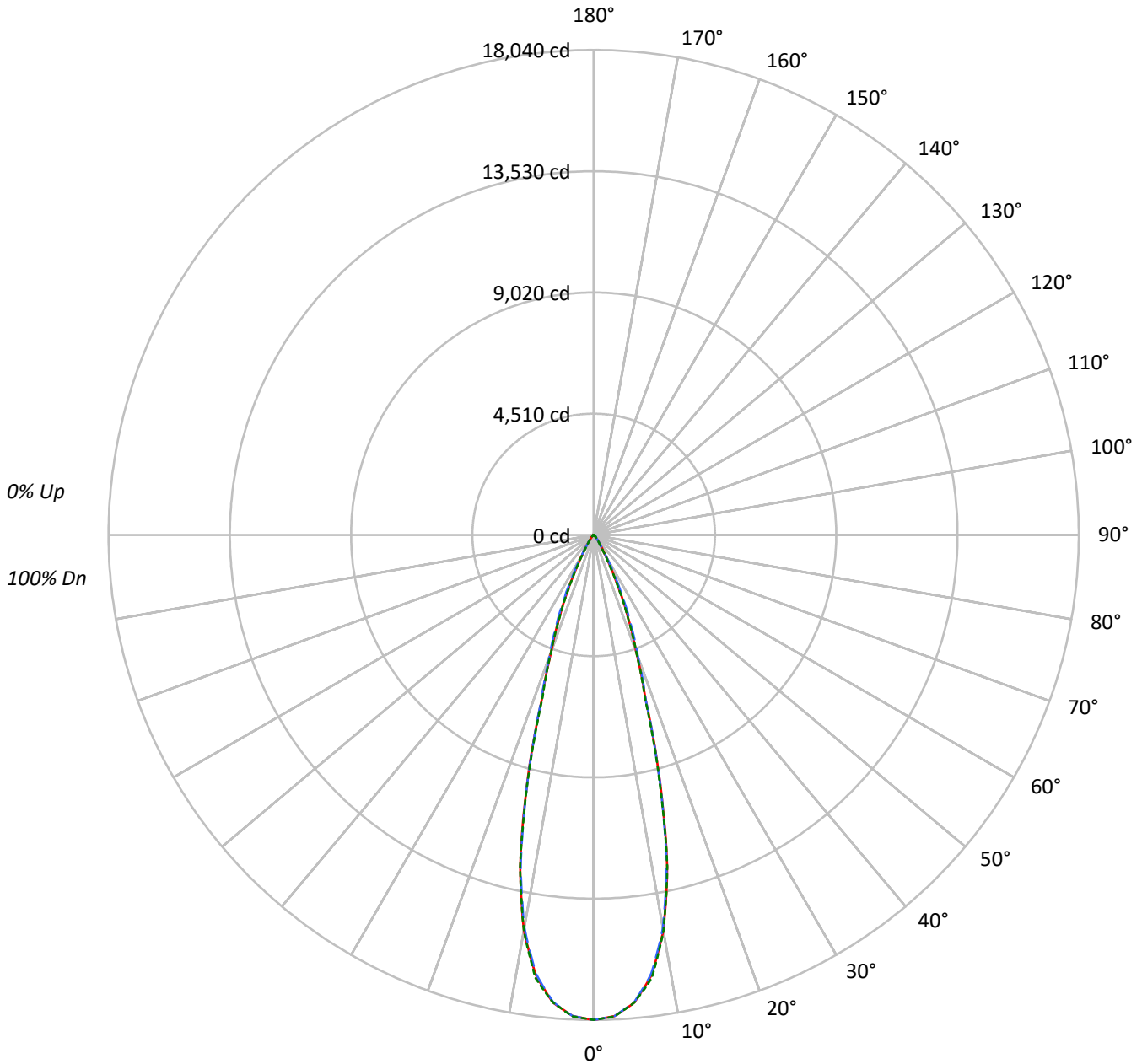
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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°	1380820	1380820	1380820
5°	1341184	1339616	1341245
10°	1161666	1153474	1161394
15°	757933	753860	750072
20°	376880	391020	376375
25°	189849	214080	185956
30°	76011	82825	66227
35°	35256	33770	28304
40°	15218	16907	14339
45°	10738	13325	10836
50°	3691	9705	3906
55°	2122	4017	2242
60°	1485	1760	1485
65°	960	960	960
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13325 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1586.3	28.3
10°-20°	2554.8	45.5
20°-30°	1104.0	19.7
30°-40°	251.6	4.5
40°-50°	86.4	1.5
50°-60°	21.1	0.4
60°-70°	5.5	0.1
70°-80°	0.6	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°	5245.1	93.5
0°-40°	5496.7	98.0
0°-60°	5604.2	99.9
0°-90°	5610.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5610.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18040	18040	18040	18040	18040	
5°	17455	17438	17435	17471	17456	1588
15°	9565	9449	9513	9482	9465	2561
25°	2248	2333	2535	2274	2202	1076
35°	377	385	361	359	303	256
45°	99	123	123	123	100	70
55°	16	17	30	18	17	16
65°	5	5	5	5	5	5
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°	18039.7	18039.7	18039.7	18039.7	18039.7
2.5°	17920.1	17907.7	17914.8	17923.7	17927.2
5°	17455.2	17438.3	17434.8	17471.1	17456.0
7.5°	16517.2	16493.3	16457.0	16539.4	16616.4
10°	14946.0	14919.4	14840.6	14879.6	14942.5
12.5°	12626.4	12540.5	12538.7	12662.7	12645.9
15°	9564.6	9449.4	9513.2	9482.2	9465.4
17.5°	6431.9	6387.6	6472.6	6446.9	6336.2
20°	4626.8	4638.4	4800.4	4719.0	4620.6
22.5°	3376.2	3417.9	3610.1	3400.2	3323.1
25°	2247.9	2332.9	2534.8	2273.6	2201.8
27.5°	1382.6	1421.5	1626.1	1364.8	1325.9
30°	860.0	840.5	937.1	804.2	749.3
32.5°	564.2	539.4	570.4	511.9	467.6
35°	377.3	385.3	361.4	358.7	302.9
37.5°	235.6	271.0	239.1	255.1	194.9
40°	152.3	196.6	169.2	186.9	143.5
42.5°	124.9	151.5	139.1	147.9	127.5
45°	99.2	123.1	123.1	123.1	100.1
47.5°	54.9	82.4	105.4	84.1	58.5
50°	31.0	41.6	81.5	43.4	32.8
52.5°	21.3	23.9	55.8	24.8	22.1
55°	15.9	16.8	30.1	17.7	16.8
57.5°	12.4	13.3	15.9	13.3	12.4
60°	9.7	9.7	11.5	10.6	9.7
62.5°	7.1	7.1	8.0	7.1	7.1
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.7	3.5	3.5	3.5	3.5
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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