

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: P749939

Luminaire Tested: LD4D55D010-EU4DR3055659050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749939
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-EU4DR3055659050-4LBS1LI
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: 6291.4 lumens
Efficiency: N/A
Efficacy: 108.1 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

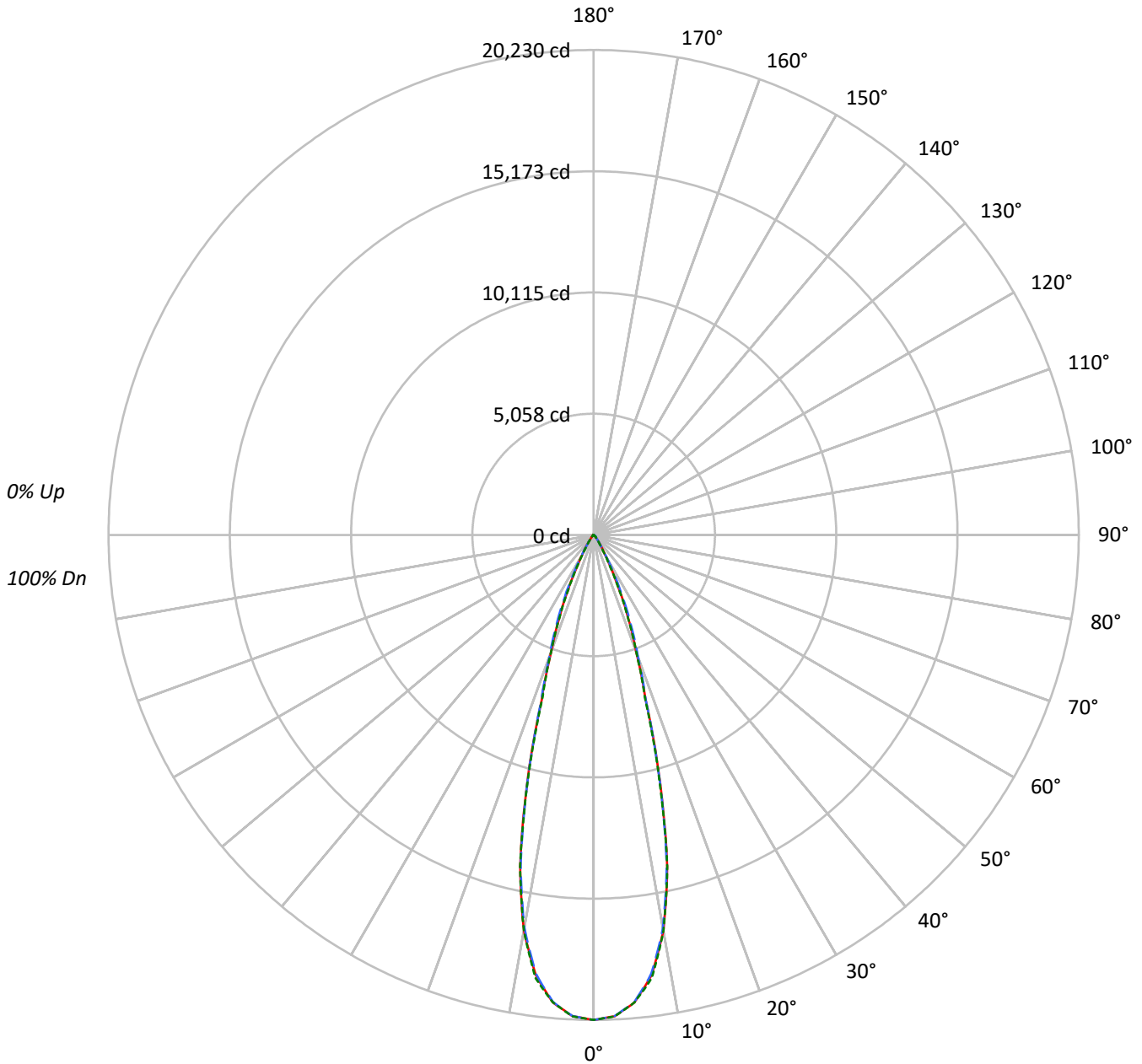
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1548458	1548458	1548458
5°	1504007	1502247	1504083
10°	1302696	1293509	1302386
15°	849943	845378	841131
20°	422641	438493	422071
25°	212897	240075	208531
30°	85238	92875	74270
35°	39535	37863	31742
40°	17066	18955	16077
45°	12037	14949	12146
50°	4144	10884	4370
55°	2389	4511	2522
60°	1669	1975	1669
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14949 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1778.9	28.3
10°-20°	2864.9	45.5
20°-30°	1238.0	19.7
30°-40°	282.2	4.5
40°-50°	96.9	1.5
50°-60°	23.7	0.4
60°-70°	6.1	0.1
70°-80°	0.7	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°	5881.9	93.5
0°-40°	6164.0	98.0
0°-60°	6284.6	99.9
0°-90°	6291.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6291.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20230	20230	20230	20230	20230	
5°	19574	19555	19551	19592	19575	1780
15°	10726	10597	10668	10633	10614	2872
25°	2521	2616	2843	2550	2469	1207
35°	423	432	405	402	340	287
45°	111	138	138	138	112	79
55°	18	19	34	20	19	17
65°	6	6	6	6	6	6
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°	20229.8	20229.8	20229.8	20229.8	20229.8
2.5°	20095.7	20081.8	20089.8	20099.7	20103.7
5°	19574.3	19555.4	19551.4	19592.2	19575.3
7.5°	18522.5	18495.6	18454.9	18547.3	18633.7
10°	16760.5	16730.7	16642.3	16686.0	16756.5
12.5°	14159.3	14062.9	14060.9	14200.0	14181.1
15°	10725.7	10596.6	10668.1	10633.4	10614.5
17.5°	7212.7	7163.1	7258.4	7229.6	7105.5
20°	5188.6	5201.5	5383.2	5291.8	5181.6
22.5°	3786.1	3832.8	4048.3	3813.0	3726.5
25°	2520.8	2616.1	2842.6	2549.6	2469.1
27.5°	1550.4	1594.1	1823.5	1530.5	1486.8
30°	964.4	942.6	1050.8	901.8	840.3
32.5°	632.7	604.9	639.6	574.1	524.4
35°	423.1	432.0	405.2	402.3	339.7
37.5°	264.2	303.9	268.2	286.0	218.5
40°	170.8	220.5	189.7	209.6	160.9
42.5°	140.0	169.8	155.9	165.9	143.0
45°	111.2	138.1	138.1	138.1	112.2
47.5°	61.6	92.4	118.2	94.4	65.6
50°	34.8	46.7	91.4	48.7	36.7
52.5°	23.8	26.8	62.6	27.8	24.8
55°	17.9	18.9	33.8	19.9	18.9
57.5°	13.9	14.9	17.9	14.9	13.9
60°	10.9	10.9	12.9	11.9	10.9
62.5°	7.9	7.9	8.9	7.9	7.9
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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