

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: P749869

Luminaire Tested: LD4D55D010-EU4DR3055659024-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749869
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-EU4DR3055659024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4578.4 lumens
Efficiency: N/A
Efficacy: 78.7 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

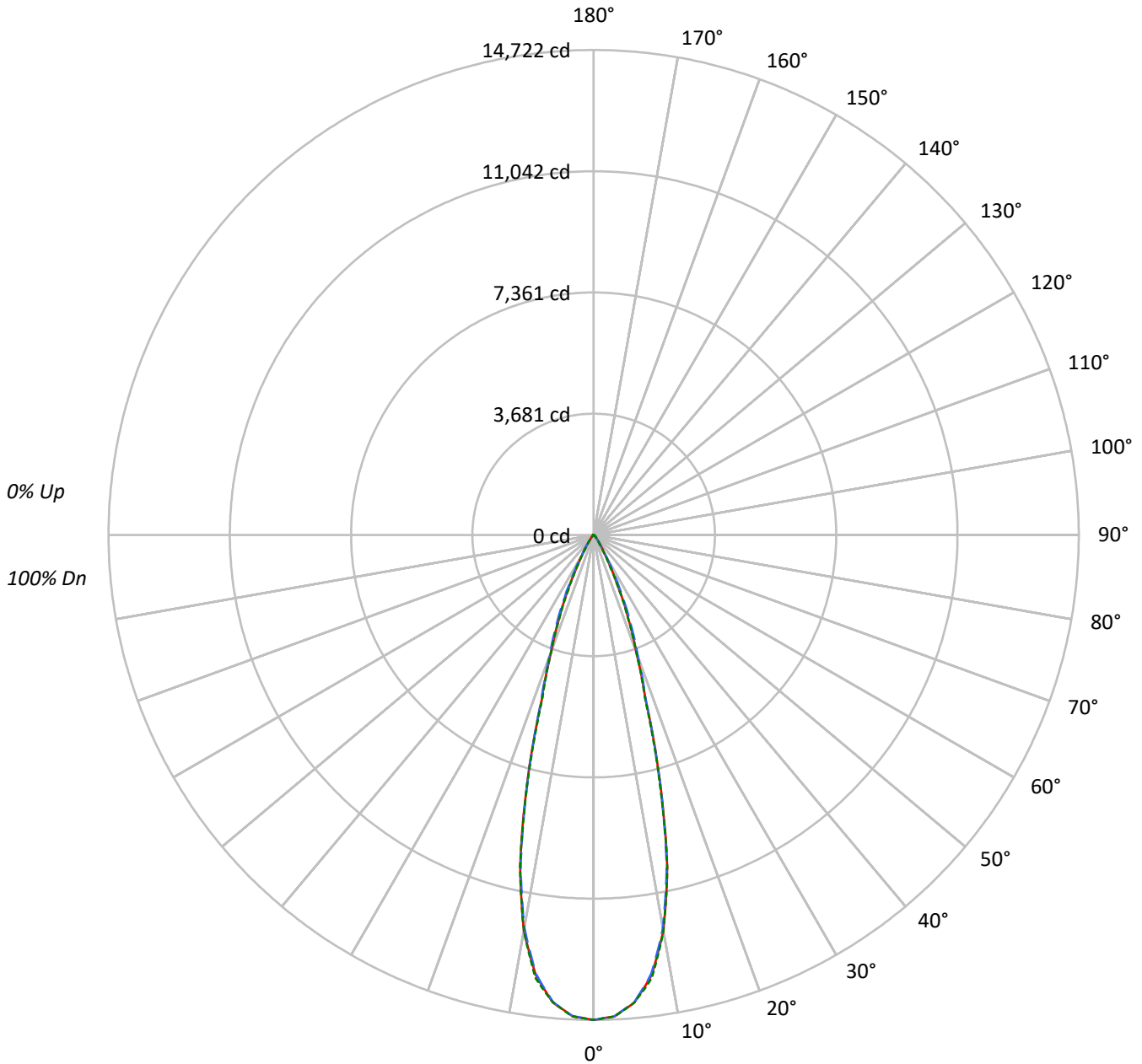
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1126864	1126864	1126864
5°	1094518	1093243	1094572
10°	948018	941333	947792
15°	618536	615215	612117
20°	307569	319111	307153
25°	154935	174706	151760
30°	62028	67588	54047
35°	28771	27556	23099
40°	12420	13799	11701
45°	8768	10879	8844
50°	3013	7919	3179
55°	1735	3283	1828
60°	1225	1439	1225
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: 10879 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1294.6	28.3
10°-20°	2084.9	45.5
20°-30°	900.9	19.7
30°-40°	205.3	4.5
40°-50°	70.5	1.5
50°-60°	17.2	0.4
60°-70°	4.5	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°	4280.4	93.5
0°-40°	4485.8	98.0
0°-60°	4573.5	99.9
0°-90°	4578.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4578.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14722	14722	14722	14722	14722	
5°	14245	14231	14228	14258	14246	1296
15°	7806	7712	7764	7738	7724	2090
25°	1834	1904	2069	1855	1797	878
35°	308	314	295	293	247	209
45°	81	100	100	100	82	57
55°	13	14	25	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°	14721.9	14721.9	14721.9	14721.9	14721.9
2.5°	14624.4	14614.2	14620.0	14627.2	14630.1
5°	14244.9	14231.2	14228.3	14257.9	14245.6
7.5°	13479.4	13459.9	13430.3	13497.5	13560.4
10°	12197.2	12175.5	12111.2	12143.0	12194.3
12.5°	10304.2	10234.1	10232.6	10333.8	10320.1
15°	7805.5	7711.5	7763.6	7738.3	7724.5
17.5°	5249.0	5212.8	5282.2	5261.2	5170.9
20°	3775.9	3785.3	3917.6	3851.1	3770.8
22.5°	2755.3	2789.3	2946.1	2774.8	2711.9
25°	1834.5	1903.8	2068.6	1855.4	1796.9
27.5°	1128.3	1160.1	1327.1	1113.8	1082.0
30°	701.8	685.9	764.7	656.3	611.5
32.5°	460.4	440.2	465.5	417.8	381.6
35°	307.9	314.4	294.9	292.7	247.2
37.5°	192.3	221.2	195.2	208.2	159.0
40°	124.3	160.5	138.1	152.5	117.1
42.5°	101.9	123.6	113.5	120.7	104.1
45°	81.0	100.5	100.5	100.5	81.7
47.5°	44.8	67.2	86.0	68.7	47.7
50°	25.3	34.0	66.5	35.4	26.7
52.5°	17.3	19.5	45.5	20.2	18.1
55°	13.0	13.7	24.6	14.5	13.7
57.5°	10.1	10.8	13.0	10.8	10.1
60°	8.0	8.0	9.4	8.7	8.0
62.5°	5.8	5.8	6.5	5.8	5.8
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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