

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: P749886

Luminaire Tested: LD4D55D010-EU4DR3055659027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749886
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-EU4DR3055659027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5459.4 lumens
Efficiency: N/A
Efficacy: 93.8 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

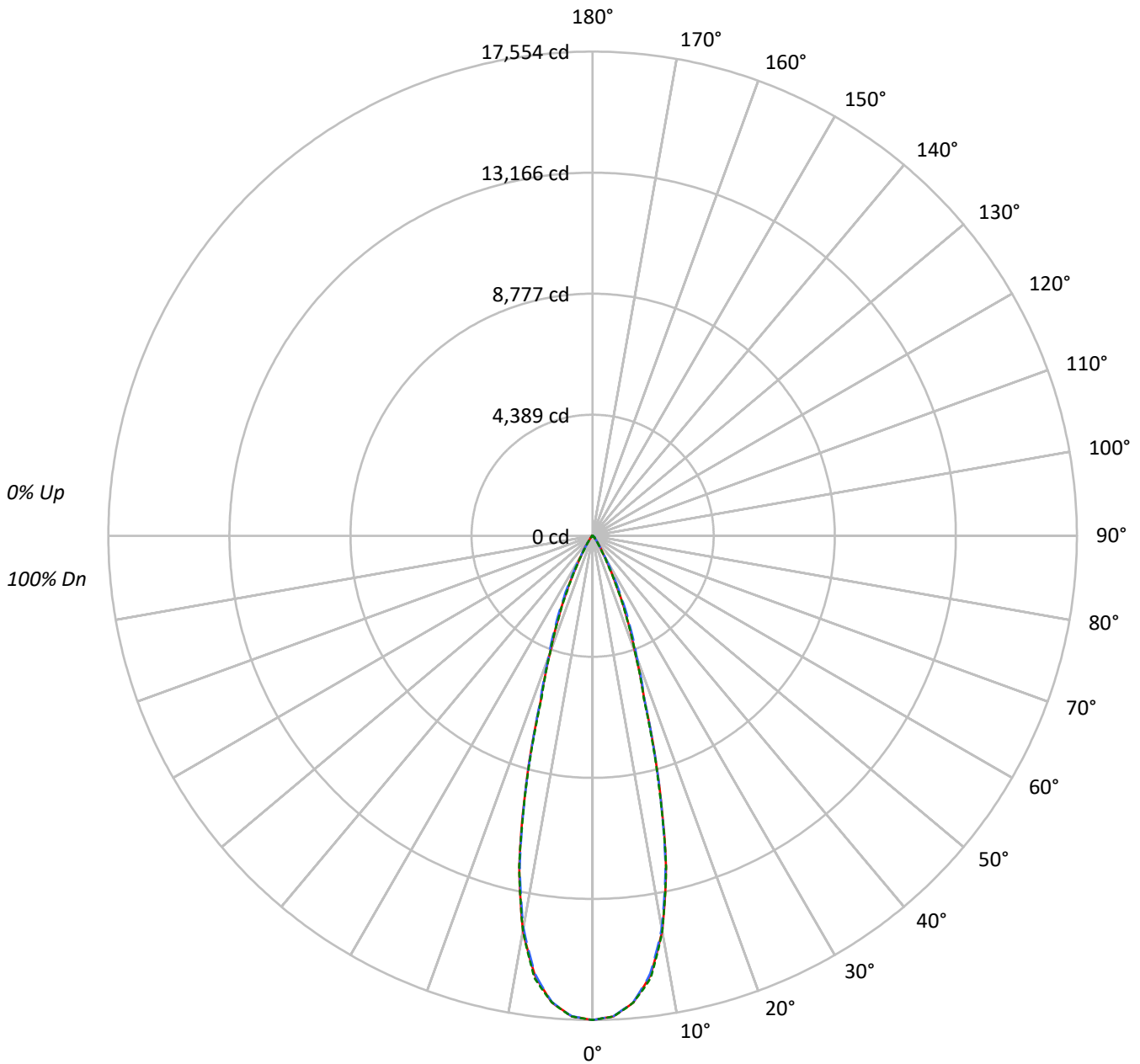
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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					70					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°	1343673	1343673	1343673
5°	1305102	1303580	1305171
10°	1130413	1122446	1130149
15°	737544	733581	729889
20°	366747	380504	366250
25°	184740	208328	180956
30°	73969	80598	64441
35°	34312	32854	27547
40°	14808	16447	13949
45°	10446	12968	10543
50°	3596	9443	3799
55°	2068	3910	2189
60°	1454	1715	1454
65°	942	942	942
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12968 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1543.6	28.3
10°-20°	2486.1	45.5
20°-30°	1074.3	19.7
30°-40°	244.9	4.5
40°-50°	84.1	1.5
50°-60°	20.5	0.4
60°-70°	5.3	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°	5104.0	93.5
0°-40°	5348.9	98.0
0°-60°	5453.5	99.9
0°-90°	5459.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5459.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17554	17554	17554	17554	17554	
5°	16986	16969	16966	17001	16986	1545
15°	9307	9195	9257	9227	9211	2492
25°	2187	2270	2467	2212	2143	1047
35°	367	375	352	349	295	249
45°	96	120	120	120	97	68
55°	16	16	29	17	16	15
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°	17554.4	17554.4	17554.4	17554.4	17554.4
2.5°	17438.1	17426.0	17432.9	17441.5	17445.0
5°	16985.6	16969.2	16965.8	17001.1	16986.5
7.5°	16072.9	16049.6	16014.3	16094.4	16169.4
10°	14543.9	14518.1	14441.4	14479.3	14540.5
12.5°	12286.7	12203.1	12201.4	12322.1	12305.7
15°	9307.3	9195.2	9257.3	9227.1	9210.7
17.5°	6258.9	6215.8	6298.5	6273.5	6165.8
20°	4502.4	4513.6	4671.3	4592.0	4496.3
22.5°	3285.4	3325.9	3513.0	3308.7	3233.7
25°	2187.4	2270.1	2466.7	2212.4	2142.6
27.5°	1345.4	1383.3	1582.4	1328.1	1290.2
30°	836.9	817.9	911.9	782.6	729.1
32.5°	549.0	524.9	555.0	498.2	455.1
35°	367.2	374.9	351.6	349.1	294.8
37.5°	229.3	263.7	232.7	248.2	189.6
40°	148.2	191.3	164.6	181.9	139.6
42.5°	121.5	147.4	135.3	143.9	124.1
45°	96.5	119.8	119.8	119.8	97.4
47.5°	53.4	80.2	102.6	81.9	56.9
50°	30.2	40.5	79.3	42.2	31.9
52.5°	20.7	23.3	54.3	24.1	21.5
55°	15.5	16.4	29.3	17.2	16.4
57.5°	12.1	12.9	15.5	12.9	12.1
60°	9.5	9.5	11.2	10.3	9.5
62.5°	6.9	6.9	7.8	6.9	6.9
65°	5.2	5.2	5.2	5.2	5.2
67.5°	2.6	3.4	3.4	3.4	3.4
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	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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