

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: P749912

Luminaire Tested: LD4D55D010-EU4DR3055659035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749912
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-EU4DR3055659035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5683.6 lumens
Efficiency: N/A
Efficacy: 97.7 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

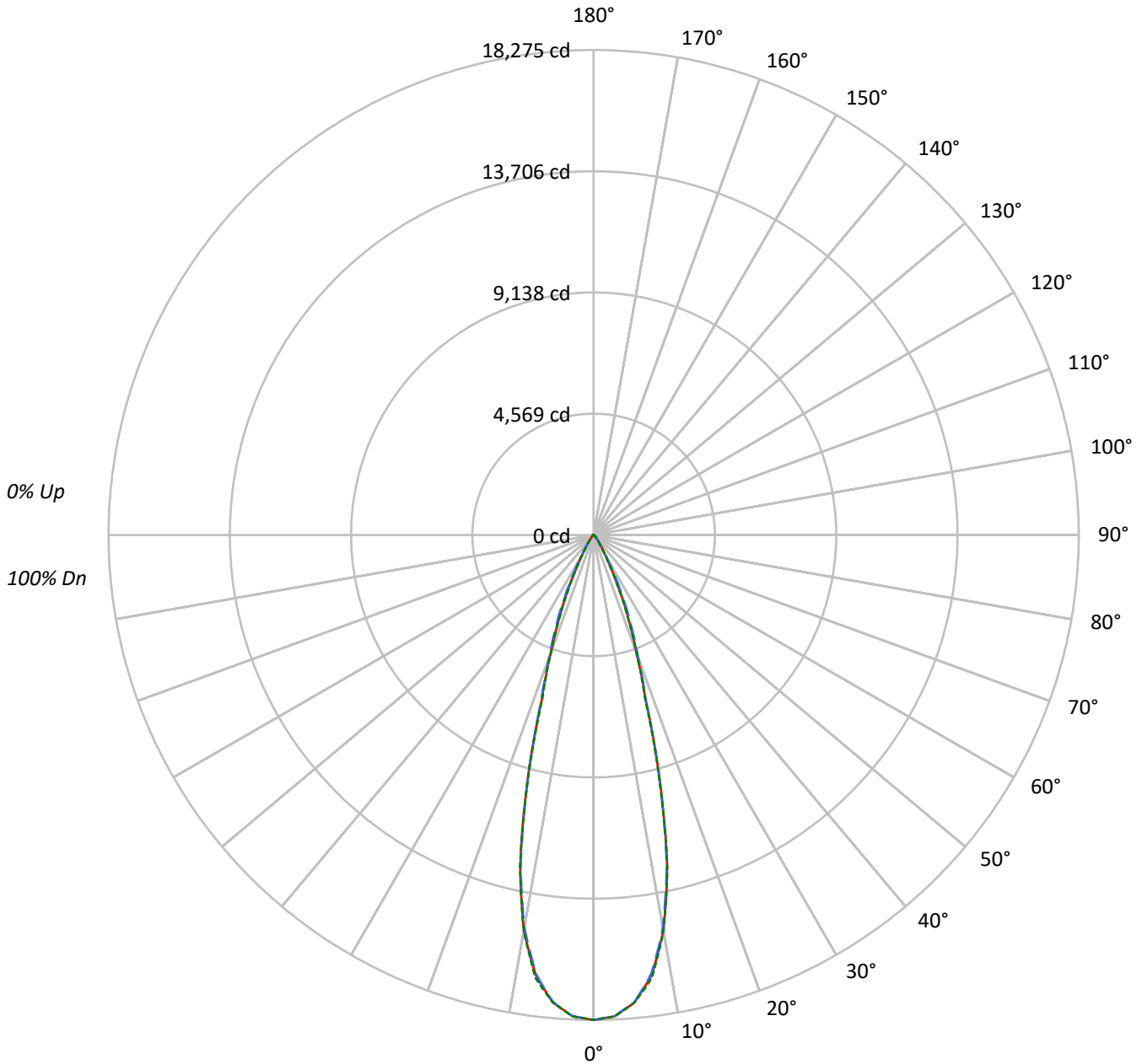
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1398861	1398861	1398861
5°	1358702	1357120	1358772
10°	1176845	1168545	1176566
15°	767830	763710	759866
20°	381808	396136	381295
25°	192324	216884	188388
30°	77001	83904	67093
35°	35714	34209	28677
40°	15418	17126	14528
45°	10879	13499	10976
50°	3739	9824	3953
55°	2162	4070	2269
60°	1516	1791	1516
65°	978	978	978
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: 13499 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1607.0	28.3
10°-20°	2588.2	45.5
20°-30°	1118.4	19.7
30°-40°	254.9	4.5
40°-50°	87.5	1.5
50°-60°	21.4	0.4
60°-70°	5.6	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°	5313.6	93.5
0°-40°	5568.5	98.0
0°-60°	5677.4	99.9
0°-90°	5683.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5683.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18275	18275	18275	18275	18275	
5°	17683	17666	17663	17699	17684	1608
15°	9690	9573	9638	9606	9589	2594
25°	2277	2363	2568	2303	2231	1090
35°	382	390	366	363	307	259
45°	100	125	125	125	101	71
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°	18275.4	18275.4	18275.4	18275.4	18275.4
2.5°	18154.3	18141.7	18148.9	18157.9	18161.5
5°	17683.2	17666.2	17662.6	17699.4	17684.1
7.5°	16733.0	16708.8	16672.0	16755.5	16833.5
10°	15141.3	15114.4	15034.5	15074.0	15137.7
12.5°	12791.4	12704.3	12702.5	12828.1	12811.1
15°	9689.5	9572.9	9637.5	9606.1	9589.0
17.5°	6515.9	6471.1	6557.2	6531.2	6419.0
20°	4687.3	4699.0	4863.2	4780.6	4681.0
22.5°	3420.4	3462.5	3657.2	3444.6	3366.5
25°	2277.2	2363.4	2568.0	2303.3	2230.6
27.5°	1400.6	1440.1	1647.4	1382.7	1343.2
30°	871.2	851.5	949.3	814.7	759.1
32.5°	571.6	546.4	577.8	518.6	473.8
35°	382.2	390.3	366.1	363.4	306.9
37.5°	238.7	274.6	242.3	258.4	197.4
40°	154.3	199.2	171.4	189.3	145.4
42.5°	126.5	153.4	140.9	149.8	129.2
45°	100.5	124.7	124.7	124.7	101.4
47.5°	55.6	83.4	106.8	85.2	59.2
50°	31.4	42.2	82.5	44.0	33.2
52.5°	21.5	24.2	56.5	25.1	22.4
55°	16.2	17.0	30.5	17.9	17.0
57.5°	12.6	13.5	16.2	13.5	12.6
60°	9.9	9.9	11.7	10.8	9.9
62.5°	7.2	7.2	8.1	7.2	7.2
65°	5.4	5.4	5.4	5.4	5.4
67.5°	2.7	3.6	3.6	3.6	3.6
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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