

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: P749921

Luminaire Tested: LD4D55D010-EU4DR3055659040-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749921
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-EU4DR3055659040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5651.8 lumens
Efficiency: N/A
Efficacy: 97.1 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

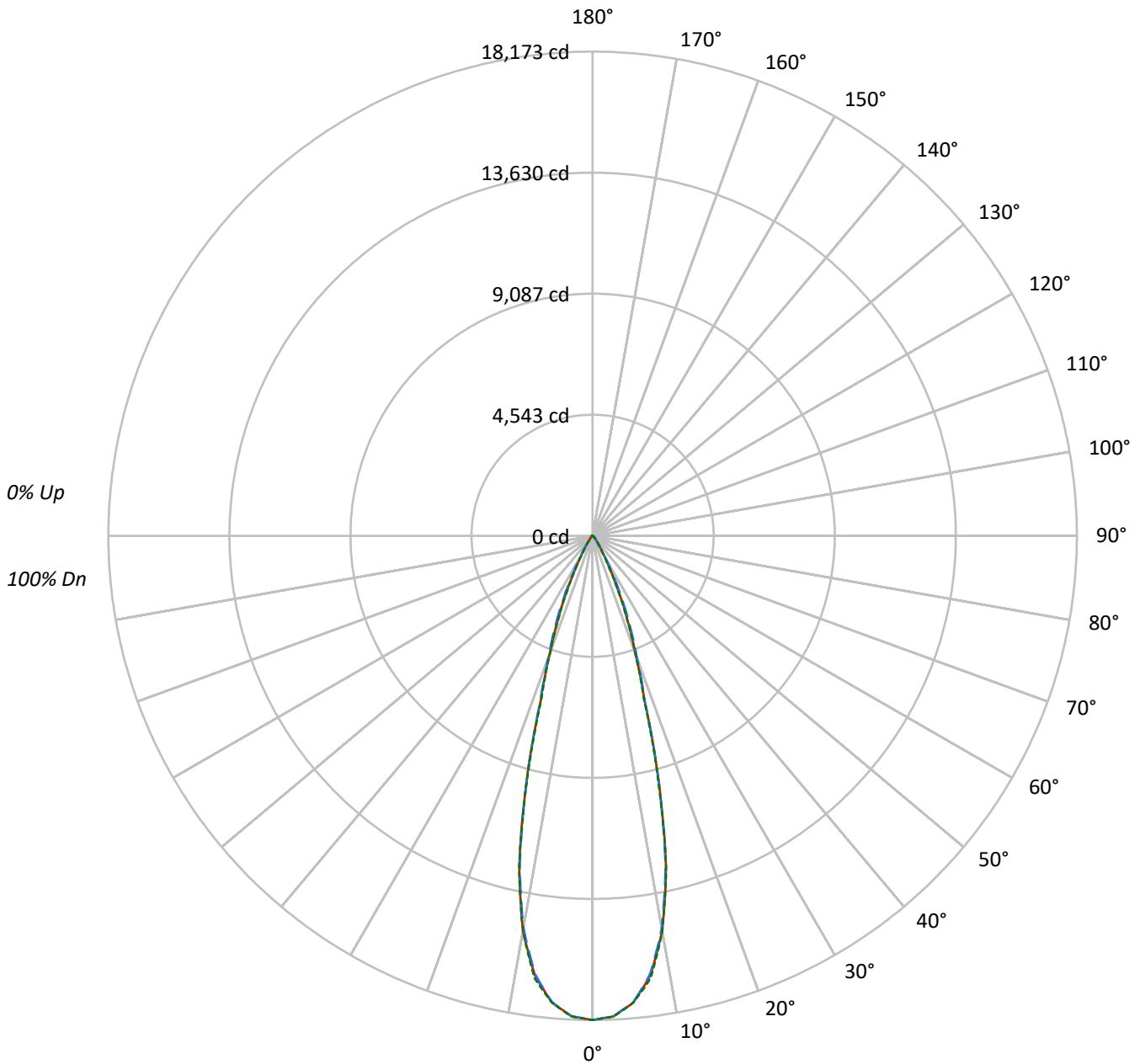
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1391046	1391046	1391046
5°	1351119	1349536	1351188
10°	1170270	1162016	1169990
15°	763543	759446	755627
20°	379674	393920	379169
25°	191251	215668	187333
30°	76577	83435	66713
35°	35517	34013	28509
40°	15338	17026	14438
45°	10814	13423	10911
50°	3715	9776	3930
55°	2149	4044	2269
60°	1500	1776	1500
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: 13423 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1598.1	28.3
10°-20°	2573.7	45.5
20°-30°	1112.2	19.7
30°-40°	253.5	4.5
40°-50°	87.0	1.5
50°-60°	21.3	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°	5283.9	93.5
0°-40°	5537.4	98.0
0°-60°	5645.7	99.9
0°-90°	5651.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5651.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18173	18173	18173	18173	18173	
5°	17584	17568	17564	17600	17585	1599
15°	9635	9519	9584	9552	9536	2580
25°	2264	2350	2554	2290	2218	1084
35°	380	388	364	361	305	258
45°	100	124	124	124	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°	18173.3	18173.3	18173.3	18173.3	18173.3
2.5°	18052.9	18040.4	18047.5	18056.5	18060.0
5°	17584.5	17567.5	17563.9	17600.5	17585.4
7.5°	16639.6	16615.5	16578.9	16661.9	16739.5
10°	15056.7	15029.9	14950.5	14989.8	15053.1
12.5°	12719.9	12633.4	12631.6	12756.5	12739.5
15°	9635.4	9519.4	9583.7	9552.4	9535.5
17.5°	6479.5	6434.9	6520.6	6494.7	6383.2
20°	4661.1	4672.7	4836.0	4753.9	4654.9
22.5°	3401.3	3443.2	3636.8	3425.3	3347.7
25°	2264.5	2350.2	2553.6	2290.4	2218.1
27.5°	1392.8	1432.1	1638.2	1375.0	1335.7
30°	866.4	846.7	944.0	810.2	754.8
32.5°	568.4	543.4	574.6	515.7	471.1
35°	380.1	388.1	364.0	361.4	305.1
37.5°	237.3	273.0	240.9	257.0	196.3
40°	153.5	198.1	170.4	188.3	144.5
42.5°	125.8	152.6	140.1	149.0	128.5
45°	99.9	124.0	124.0	124.0	100.8
47.5°	55.3	83.0	106.2	84.8	58.9
50°	31.2	41.9	82.1	43.7	33.0
52.5°	21.4	24.1	56.2	25.0	22.3
55°	16.1	17.0	30.3	17.8	17.0
57.5°	12.5	13.4	16.1	13.4	12.5
60°	9.8	9.8	11.6	10.7	9.8
62.5°	7.1	7.1	8.0	7.1	7.1
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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