

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: P749909

Luminaire Tested: LD4D55D010-EU4DR3055659035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749909
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-EU4DR3055659035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 5669.4 lumens
Efficiency: N/A
Efficacy: 97.4 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

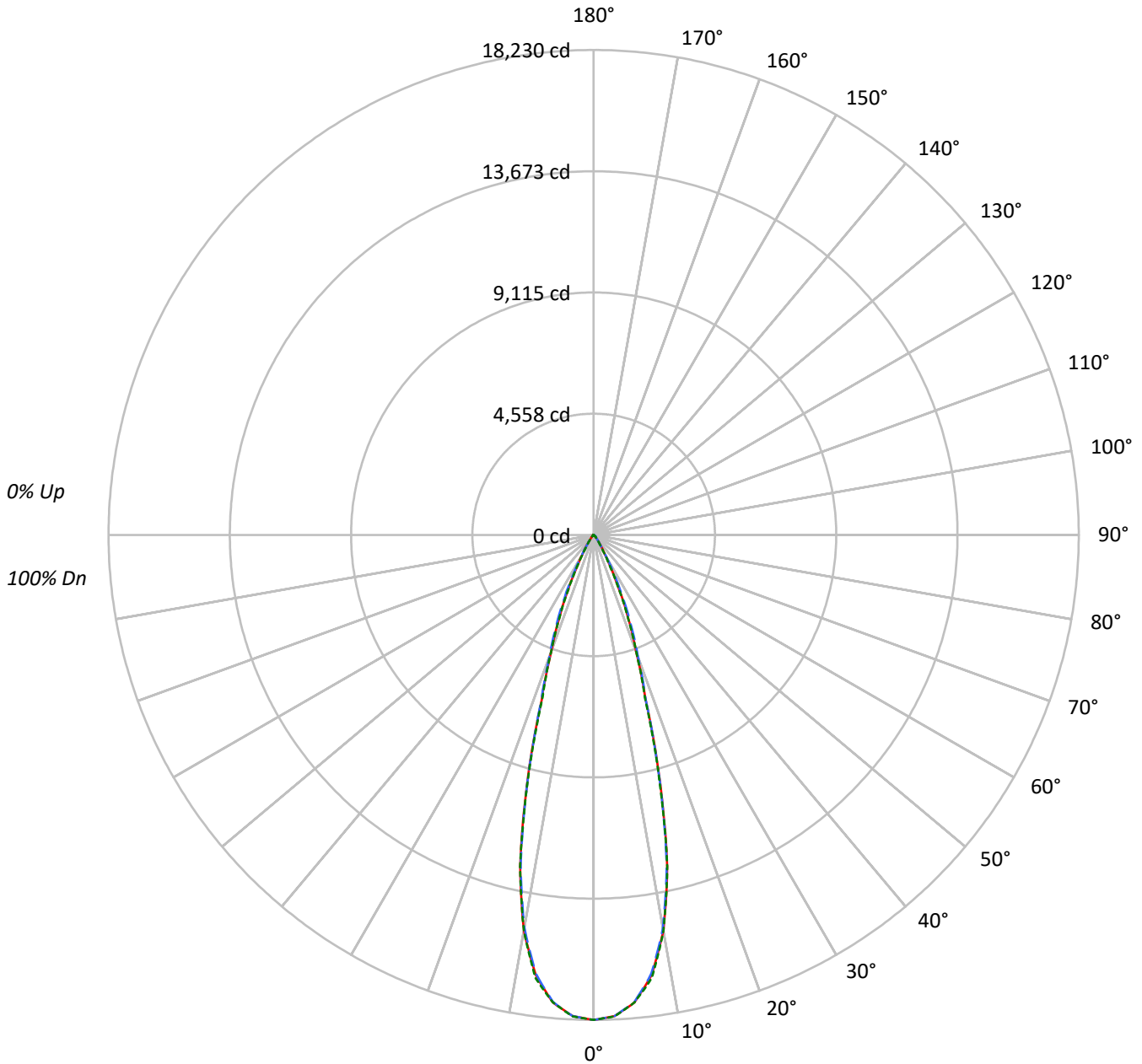
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1395363	1395363	1395363
5°	1355306	1353723	1355375
10°	1173900	1165622	1173628
15°	765913	761800	757973
20°	380855	395142	380341
25°	191851	216335	187915
30°	76815	83691	66925
35°	35630	34125	28603
40°	15378	17076	14488
45°	10847	13466	10944
50°	3727	9800	3942
55°	2149	4057	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: 13466 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1603.0	28.3
10°-20°	2581.7	45.5
20°-30°	1115.6	19.7
30°-40°	254.3	4.5
40°-50°	87.3	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°	5300.3	93.5
0°-40°	5554.6	98.0
0°-60°	5663.2	99.9
0°-90°	5669.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5669.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18230	18230	18230	18230	18230	
5°	17639	17622	17618	17655	17640	1604
15°	9665	9549	9613	9582	9565	2588
25°	2272	2358	2562	2298	2225	1087
35°	381	389	365	362	306	259
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°	18229.7	18229.7	18229.7	18229.7	18229.7
2.5°	18108.9	18096.4	18103.5	18112.5	18116.1
5°	17639.0	17622.0	17618.4	17655.1	17639.9
7.5°	16691.2	16667.0	16630.3	16713.6	16791.4
10°	15103.4	15076.6	14996.9	15036.3	15099.9
12.5°	12759.4	12672.6	12670.8	12796.1	12779.1
15°	9665.3	9549.0	9613.4	9582.1	9565.1
17.5°	6499.6	6454.9	6540.8	6514.8	6403.0
20°	4675.6	4687.2	4851.0	4768.7	4669.3
22.5°	3411.8	3453.9	3648.1	3436.0	3358.1
25°	2271.6	2357.5	2561.5	2297.5	2225.0
27.5°	1397.1	1436.5	1643.3	1379.2	1339.8
30°	869.1	849.4	946.9	812.7	757.2
32.5°	570.1	545.1	576.4	517.3	472.6
35°	381.3	389.3	365.2	362.5	306.1
37.5°	238.1	273.9	241.7	257.8	196.9
40°	153.9	198.7	170.9	188.8	145.0
42.5°	126.2	153.0	140.5	149.5	128.9
45°	100.2	124.4	124.4	124.4	101.1
47.5°	55.5	83.2	106.5	85.0	59.1
50°	31.3	42.1	82.3	43.9	33.1
52.5°	21.5	24.2	56.4	25.1	22.4
55°	16.1	17.0	30.4	17.9	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°	7.2	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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