

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: P749933

Luminaire Tested: LD4D55D010-EU4DR3055659050-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749933
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-EU4DR3055659050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4582.7 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

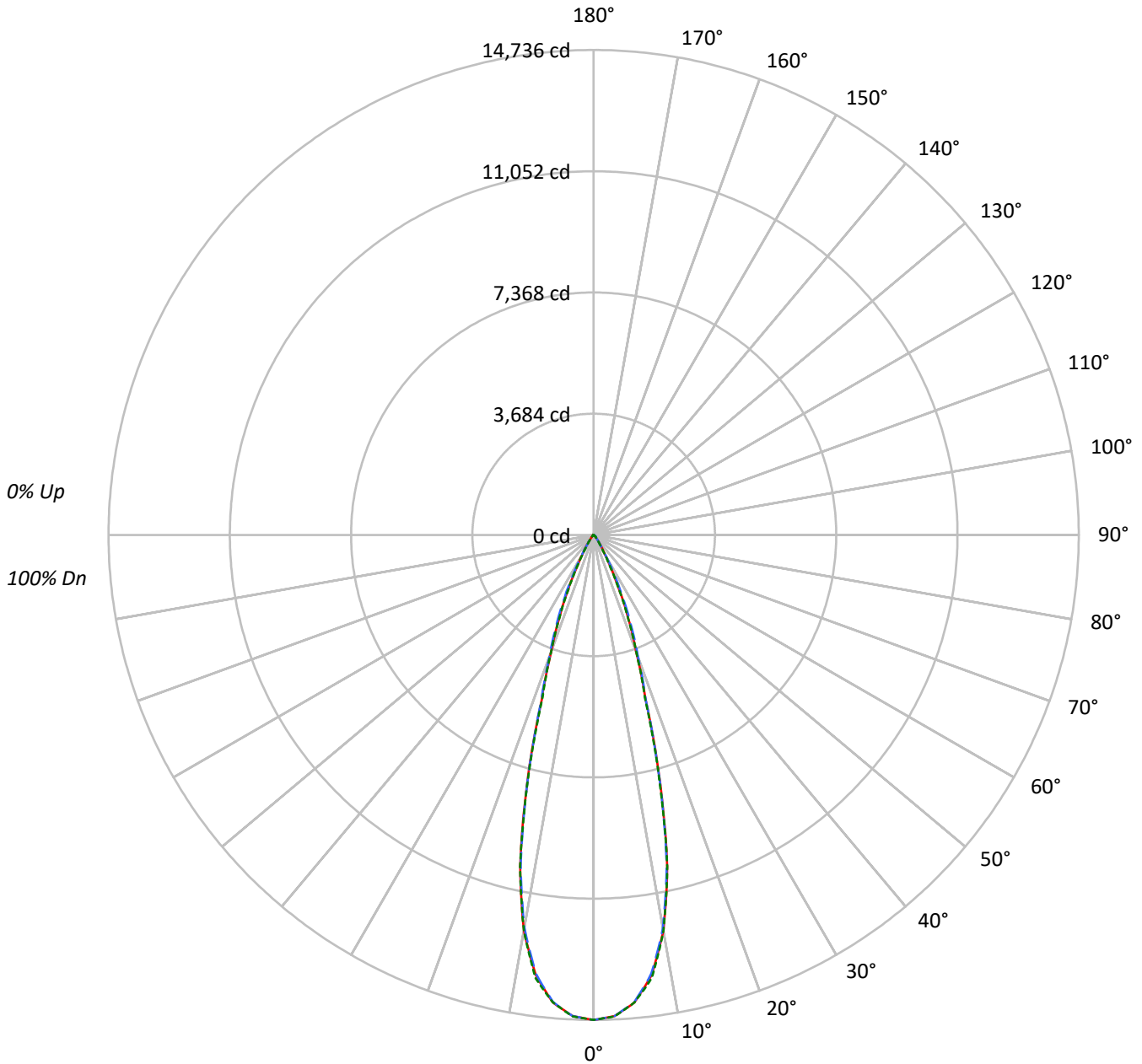
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1127921	1127921	1127921
5°	1095540	1094264	1095601
10°	948904	942212	948678
15°	619114	615786	612695
20°	307854	319404	307447
25°	155079	174875	151903
30°	62090	67650	54100
35°	28799	27584	23118
40°	12430	13809	11711
45°	8768	10890	8855
50°	3013	7931	3191
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: 10890 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1295.8	28.3
10°-20°	2086.9	45.5
20°-30°	901.8	19.7
30°-40°	205.5	4.5
40°-50°	70.6	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°	4284.5	93.5
0°-40°	4490.0	98.0
0°-60°	4577.8	99.9
0°-90°	4582.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4582.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14736	14736	14736	14736	14736	
5°	14258	14244	14242	14271	14259	1297
15°	7813	7719	7771	7746	7732	2092
25°	1836	1906	2071	1857	1799	879
35°	308	315	295	293	247	209
45°	81	101	101	101	82	58
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°	14735.7	14735.7	14735.7	14735.7	14735.7
2.5°	14638.1	14627.9	14633.7	14641.0	14643.9
5°	14258.2	14244.5	14241.6	14271.3	14259.0
7.5°	13492.1	13472.6	13442.9	13510.2	13573.1
10°	12208.6	12186.9	12122.5	12154.4	12205.7
12.5°	10313.9	10243.7	10242.2	10343.5	10329.8
15°	7812.8	7718.8	7770.8	7745.5	7731.8
17.5°	5253.9	5217.7	5287.2	5266.2	5175.7
20°	3779.4	3788.8	3921.2	3854.7	3774.4
22.5°	2757.9	2791.9	2948.9	2777.4	2714.5
25°	1836.2	1905.6	2070.6	1857.2	1798.6
27.5°	1129.3	1161.2	1328.3	1114.9	1083.0
30°	702.5	686.6	765.4	656.9	612.1
32.5°	460.9	440.6	465.9	418.2	382.0
35°	308.2	314.7	295.2	293.0	247.4
37.5°	192.4	221.4	195.3	208.4	159.2
40°	124.4	160.6	138.2	152.7	117.2
42.5°	102.0	123.7	113.6	120.8	104.2
45°	81.0	100.6	100.6	100.6	81.8
47.5°	44.9	67.3	86.1	68.7	47.7
50°	25.3	34.0	66.6	35.5	26.8
52.5°	17.4	19.5	45.6	20.3	18.1
55°	13.0	13.7	24.6	14.5	13.7
57.5°	10.1	10.9	13.0	10.9	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

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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