

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: P749090

Luminaire Tested: LD4D50D010-EU4DR3040509024-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749090
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: LD4D50D010-EU4DR3040509024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4252.1 lumens
Efficiency: N/A
Efficacy: 90.5 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

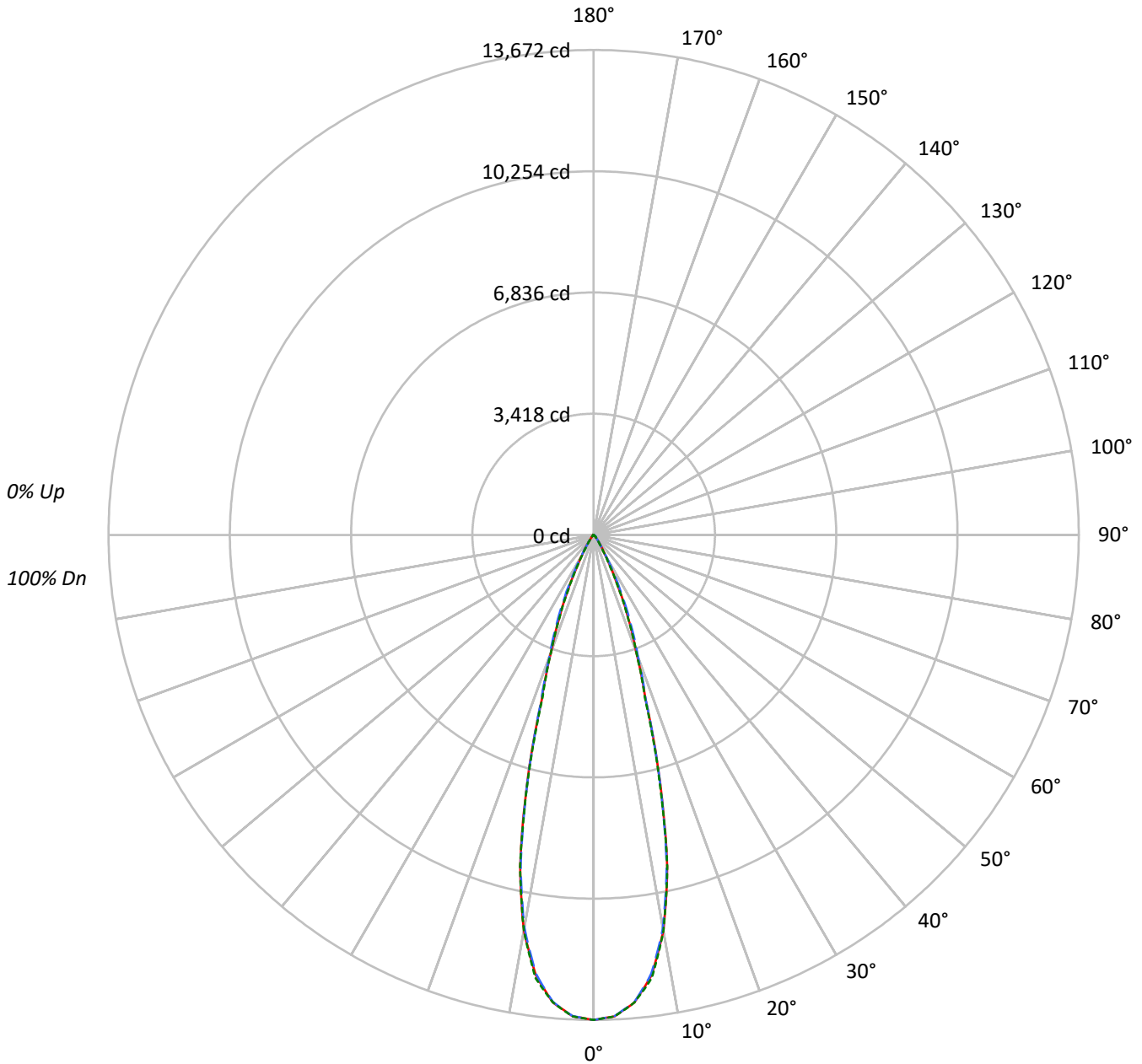
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1046532	1046532	1046532
5°	1016491	1015300	1016545
10°	880436	874226	880227
15°	574437	571354	568485
20°	285641	296361	285258
25°	143888	162257	140941
30°	57609	62771	50194
35°	26724	25594	21454
40°	11541	12810	10861
45°	8140	10100	8216
50°	2798	7359	2953
55°	1615	3043	1708
60°	1133	1332	1133
65°	724	724	724
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10100 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1202.3	28.3
10°-20°	1936.3	45.5
20°-30°	836.7	19.7
30°-40°	190.7	4.5
40°-50°	65.5	1.5
50°-60°	16.0	0.4
60°-70°	4.1	0.1
70°-80°	0.4	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°	3975.3	93.5
0°-40°	4166.0	98.0
0°-60°	4247.5	99.9
0°-90°	4252.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4252.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13672	13672	13672	13672	13672	
5°	13229	13217	13214	13242	13230	1203
15°	7249	7162	7210	7187	7174	1941
25°	1704	1768	1921	1723	1669	816
35°	286	292	274	272	230	194
45°	75	93	93	93	76	53
55°	12	13	23	13	13	12
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°	13672.4	13672.4	13672.4	13672.4	13672.4
2.5°	13581.8	13572.4	13577.8	13584.5	13587.2
5°	13229.4	13216.6	13213.9	13241.5	13230.1
7.5°	12518.5	12500.4	12472.9	12535.3	12593.7
10°	11327.7	11307.5	11247.8	11277.3	11325.0
12.5°	9569.6	9504.5	9503.2	9597.1	9584.4
15°	7249.0	7161.8	7210.1	7186.6	7173.9
17.5°	4874.8	4841.2	4905.6	4886.2	4802.3
20°	3506.7	3515.4	3638.3	3576.5	3502.0
22.5°	2558.9	2590.4	2736.1	2577.0	2518.6
25°	1703.7	1768.1	1921.2	1723.1	1668.8
27.5°	1047.9	1077.4	1232.5	1034.4	1004.9
30°	651.8	637.0	710.2	609.5	567.9
32.5°	427.6	408.8	432.3	388.0	354.4
35°	286.0	292.0	273.9	271.9	229.6
37.5°	178.6	205.4	181.2	193.3	147.7
40°	115.5	149.0	128.2	141.6	108.7
42.5°	94.6	114.8	105.4	112.1	96.7
45°	75.2	93.3	93.3	93.3	75.9
47.5°	41.6	62.4	79.9	63.8	44.3
50°	23.5	31.5	61.8	32.9	24.8
52.5°	16.1	18.1	42.3	18.8	16.8
55°	12.1	12.8	22.8	13.4	12.8
57.5°	9.4	10.1	12.1	10.1	9.4
60°	7.4	7.4	8.7	8.1	7.4
62.5°	5.4	5.4	6.0	5.4	5.4
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	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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