

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: P749129

Luminaire Tested: LD4D50D010-EU4DR3040509035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749129
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-EU4DR3040509035-4LBDP1LI
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: 5014.5 lumens
Efficiency: N/A
Efficacy: 106.7 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

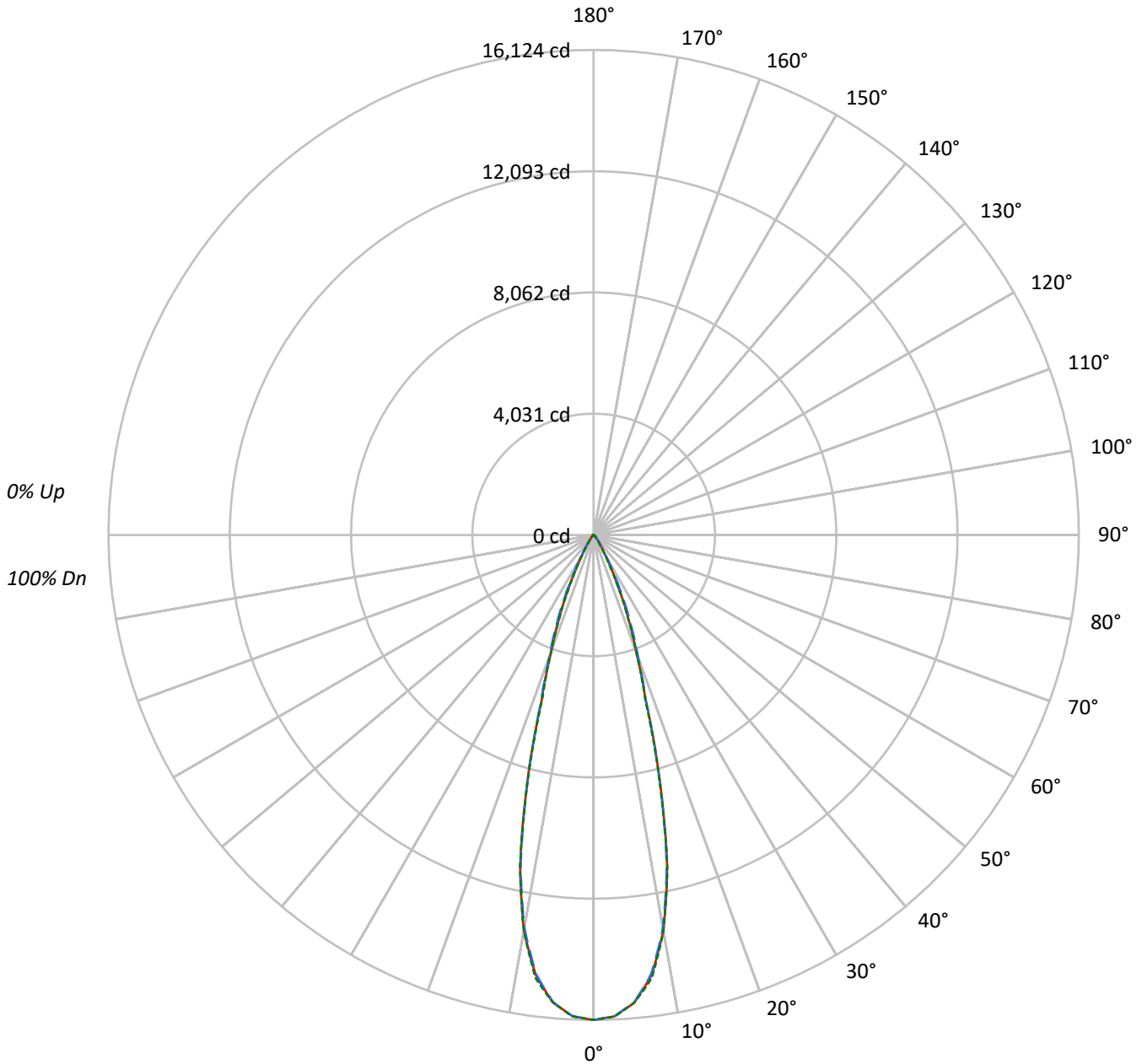
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1234186	1234186	1234186
5°	1198753	1197355	1198815
10°	1038302	1030980	1038053
15°	677437	673800	670416
20°	336860	349494	336404
25°	169690	191344	166210
30°	67941	74022	59191
35°	31509	30182	25295
40°	13609	15108	12810
45°	9602	11907	9688
50°	3299	8669	3489
55°	1895	3590	2002
60°	1332	1577	1332
65°	851	851	851
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11907 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1417.9	28.3
10°-20°	2283.5	45.5
20°-30°	986.7	19.7
30°-40°	224.9	4.5
40°-50°	77.2	1.5
50°-60°	18.9	0.4
60°-70°	4.9	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°	4688.1	93.5
0°-40°	4913.0	98.0
0°-60°	5009.0	99.9
0°-90°	5014.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5014.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16124	16124	16124	16124	16124	
5°	15602	15586	15583	15616	15602	1419
15°	8549	8446	8503	8475	8460	2289
25°	2009	2085	2266	2032	1968	962
35°	337	344	323	321	271	229
45°	89	110	110	110	90	63
55°	14	15	27	16	15	14
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°	16124.0	16124.0	16124.0	16124.0	16124.0
2.5°	16017.1	16006.0	16012.3	16020.2	16023.4
5°	15601.5	15586.4	15583.3	15615.7	15602.3
7.5°	14763.1	14741.8	14709.3	14782.9	14851.8
10°	13358.8	13335.0	13264.6	13299.4	13355.6
12.5°	11285.5	11208.7	11207.1	11318.0	11302.9
15°	8548.8	8445.9	8502.9	8475.2	8460.2
17.5°	5748.8	5709.2	5785.2	5762.3	5663.3
20°	4135.5	4145.8	4290.6	4217.8	4129.9
22.5°	3017.7	3054.9	3226.7	3039.1	2970.2
25°	2009.2	2085.2	2265.6	2032.1	1968.0
27.5°	1235.7	1270.6	1453.4	1219.9	1185.1
30°	768.7	751.3	837.5	718.8	669.7
32.5°	504.3	482.1	509.8	457.6	418.0
35°	337.2	344.4	323.0	320.6	270.7
37.5°	210.6	242.2	213.7	228.0	174.2
40°	136.2	175.7	151.2	167.0	128.2
42.5°	111.6	135.4	124.3	132.2	114.0
45°	88.7	110.0	110.0	110.0	89.5
47.5°	49.1	73.6	94.2	75.2	52.2
50°	27.7	37.2	72.8	38.8	29.3
52.5°	19.0	21.4	49.9	22.2	19.8
55°	14.2	15.0	26.9	15.8	15.0
57.5°	11.1	11.9	14.2	11.9	11.1
60°	8.7	8.7	10.3	9.5	8.7
62.5°	6.3	6.3	7.1	6.3	6.3
65°	4.7	4.7	4.7	4.7	4.7
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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