

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: P749127

Luminaire Tested: LD4D50D010-EU4DR3040509035-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749127
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-EU4DR3040509035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3844.9 lumens
Efficiency: N/A
Efficacy: 81.8 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

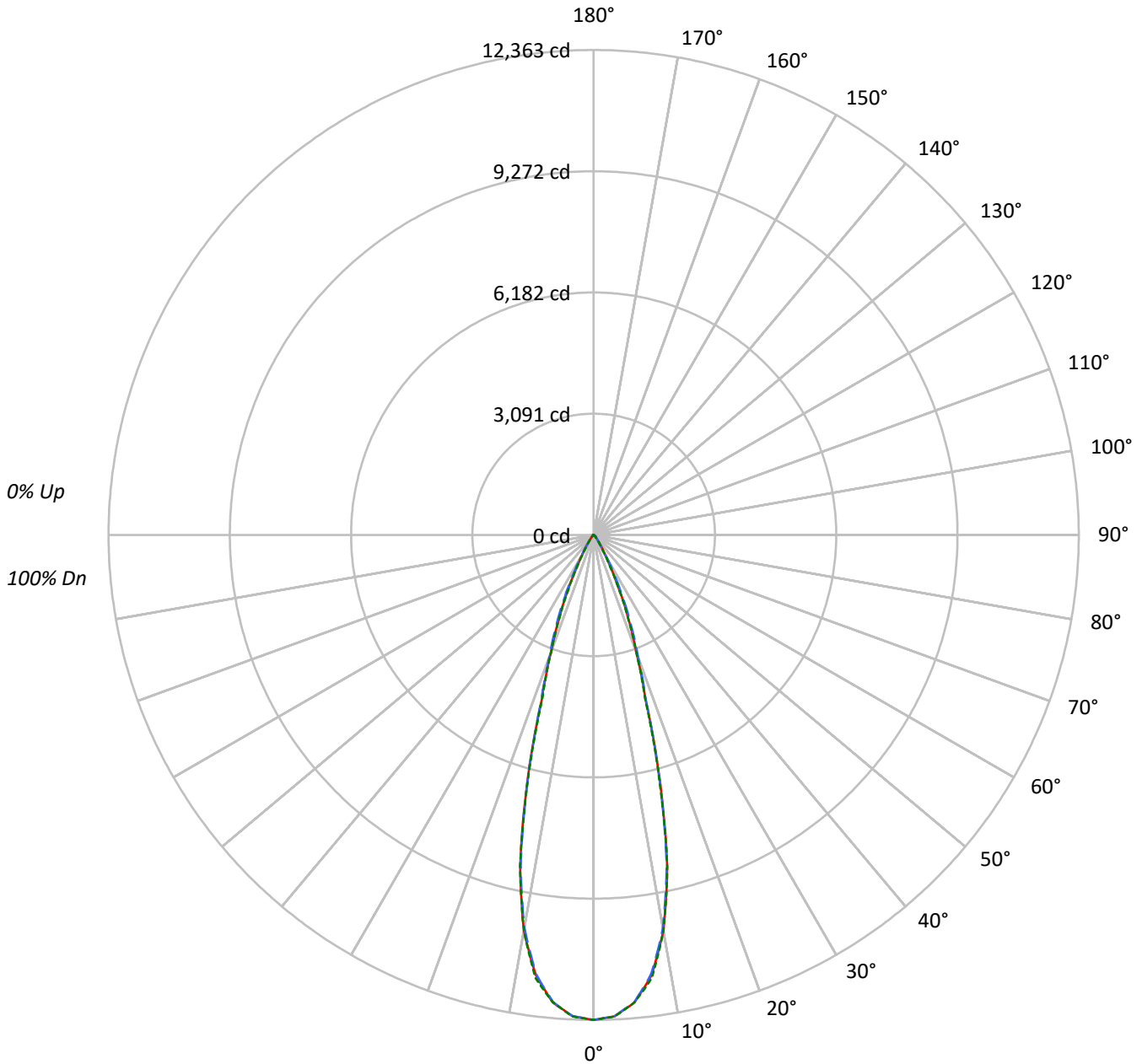
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	946314	946314	946314
5°	919148	918080	919194
10°	796121	790510	795935
15°	519434	516644	514045
20°	258288	267981	257946
25°	130105	146717	127445
30°	52094	56761	45386
35°	24164	23146	19399
40°	10432	11581	9822
45°	7361	9136	7426
50°	2525	6645	2679
55°	1455	2749	1535
60°	1026	1209	1026
65°	652	652	652
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9136 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1087.1	28.3
10°-20°	1750.9	45.5
20°-30°	756.6	19.7
30°-40°	172.4	4.5
40°-50°	59.2	1.5
50°-60°	14.5	0.4
60°-70°	3.7	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°	3594.6	93.5
0°-40°	3767.1	98.0
0°-60°	3840.7	99.9
0°-90°	3844.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3844.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12363	12363	12363	12363	12363	
5°	11962	11951	11949	11973	11963	1088
15°	6555	6476	6520	6498	6487	1755
25°	1540	1599	1737	1558	1509	737
35°	259	264	248	246	208	175
45°	68	84	84	84	69	48
55°	11	12	21	12	12	11
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°	12363.1	12363.1	12363.1	12363.1	12363.1
2.5°	12281.2	12272.7	12277.5	12283.6	12286.0
5°	11962.5	11951.0	11948.6	11973.4	11963.1
7.5°	11319.7	11303.3	11278.4	11334.9	11387.7
10°	10242.9	10224.7	10170.7	10197.4	10240.5
12.5°	8653.2	8594.3	8593.1	8678.1	8666.6
15°	6554.9	6476.0	6519.7	6498.4	6486.9
17.5°	4407.9	4377.6	4435.9	4418.3	4342.4
20°	3170.9	3178.8	3289.9	3234.0	3166.7
22.5°	2313.8	2342.4	2474.1	2330.2	2277.4
25°	1540.5	1598.8	1737.2	1558.1	1509.0
27.5°	947.5	974.2	1114.4	935.4	908.7
30°	589.4	576.0	642.2	551.1	513.5
32.5°	386.7	369.7	390.9	350.8	320.5
35°	258.6	264.0	247.7	245.8	207.6
37.5°	161.5	185.7	163.9	174.8	133.5
40°	104.4	134.8	115.9	128.1	98.3
42.5°	85.6	103.8	95.3	101.4	87.4
45°	68.0	84.4	84.4	84.4	68.6
47.5°	37.6	56.4	72.2	57.7	40.1
50°	21.2	28.5	55.8	29.7	22.5
52.5°	14.6	16.4	38.2	17.0	15.2
55°	10.9	11.5	20.6	12.1	11.5
57.5°	8.5	9.1	10.9	9.1	8.5
60°	6.7	6.7	7.9	7.3	6.7
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.6	3.6	3.6	3.6	3.6
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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