

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: P749115

Luminaire Tested: LD4D50D010-EU4DR3040509030-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749115
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-EU4DR3040509030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4725.9 lumens
Efficiency: N/A
Efficacy: 100.6 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

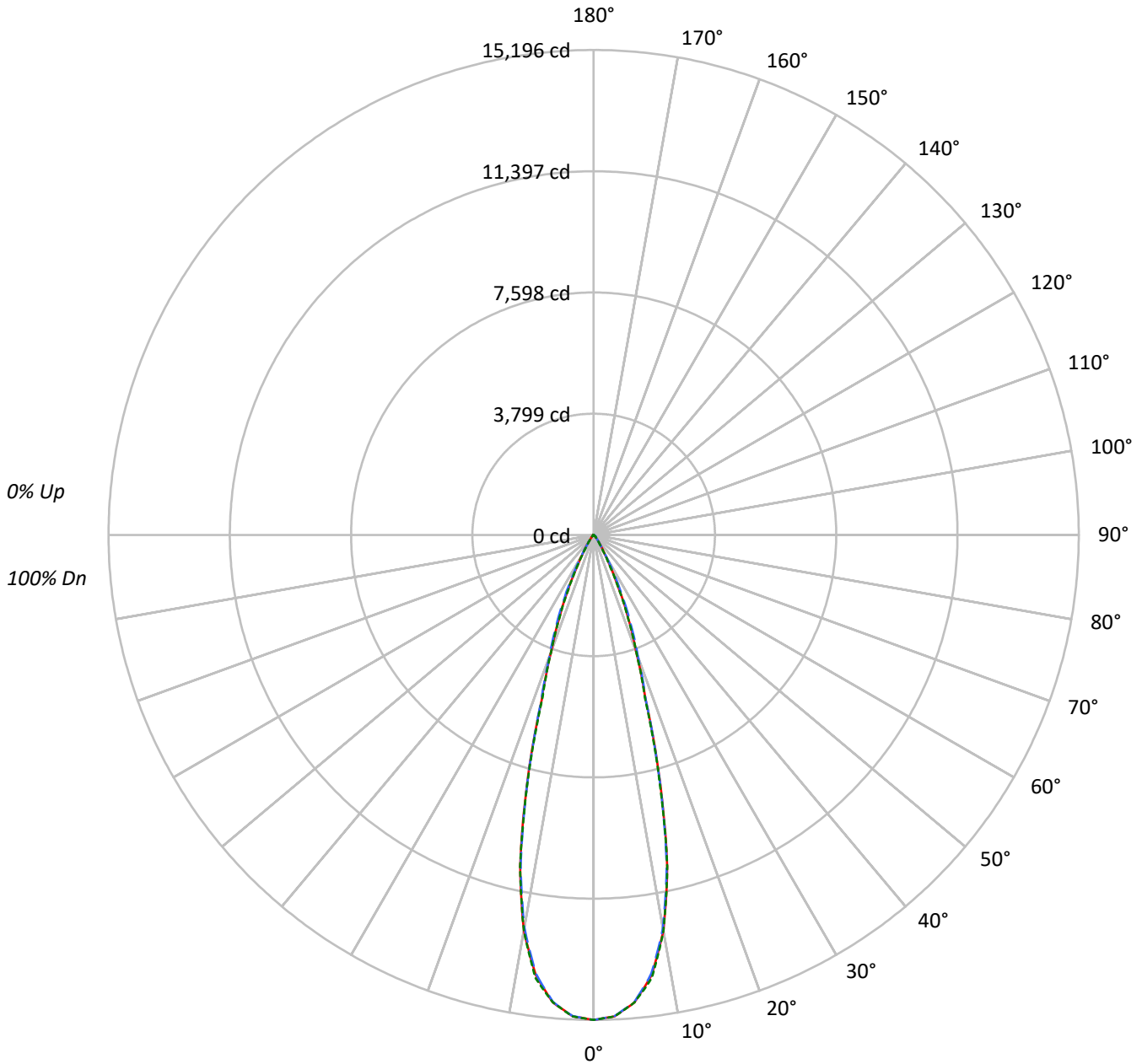
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1163161	1163161	1163161
5°	1129770	1128449	1129824
10°	978548	971654	978322
15°	638457	635026	631833
20°	317474	329383	317050
25°	159918	180340	156641
30°	64026	69762	55788
35°	29696	28444	23846
40°	12820	14239	12080
45°	9050	11225	9125
50°	3108	8169	3287
55°	1788	3390	1895
60°	1255	1485	1255
65°	815	815	815
70°	492	336	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: 11225 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1336.3	28.3
10°-20°	2152.1	45.5
20°-30°	930.0	19.7
30°-40°	212.0	4.5
40°-50°	72.8	1.5
50°-60°	17.8	0.4
60°-70°	4.6	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°	4418.3	93.5
0°-40°	4630.3	98.0
0°-60°	4720.8	99.9
0°-90°	4725.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4725.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15196	15196	15196	15196	15196	
5°	14704	14690	14686	14717	14704	1337
15°	8057	7960	8014	7988	7973	2157
25°	1894	1965	2135	1915	1855	906
35°	318	324	304	302	255	216
45°	84	104	104	104	84	59
55°	13	14	25	15	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°	15196.1	15196.1	15196.1	15196.1	15196.1
2.5°	15095.4	15084.9	15090.9	15098.3	15101.3
5°	14703.7	14689.5	14686.5	14717.1	14704.4
7.5°	13913.6	13893.4	13862.8	13932.2	13997.1
10°	12590.0	12567.7	12501.3	12534.1	12587.1
12.5°	10636.1	10563.7	10562.2	10666.7	10652.5
15°	8056.9	7959.9	8013.6	7987.5	7973.3
17.5°	5418.0	5380.7	5452.3	5430.7	5337.4
20°	3897.5	3907.2	4043.7	3975.1	3892.3
22.5°	2844.0	2879.1	3041.0	2864.2	2799.3
25°	1893.5	1965.2	2135.3	1915.2	1854.7
27.5°	1164.6	1197.5	1369.8	1149.7	1116.9
30°	724.4	708.0	789.3	677.4	631.2
32.5°	475.3	454.4	480.5	431.2	393.9
35°	317.8	324.5	304.4	302.2	255.2
37.5°	198.5	228.3	201.4	214.9	164.1
40°	128.3	165.6	142.5	157.4	120.9
42.5°	105.2	127.6	117.1	124.6	107.4
45°	83.6	103.7	103.7	103.7	84.3
47.5°	46.3	69.4	88.8	70.9	49.2
50°	26.1	35.1	68.6	36.6	27.6
52.5°	17.9	20.1	47.0	20.9	18.7
55°	13.4	14.2	25.4	14.9	14.2
57.5°	10.4	11.2	13.4	11.2	10.4
60°	8.2	8.2	9.7	9.0	8.2
62.5°	6.0	6.0	6.7	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.2	3.0	3.0	3.0	3.0
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	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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