

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P749142

Luminaire Tested: LD4D50D010-EU4DR3040509040-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749142
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-EU4DR3040509040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5248.9 lumens
Efficiency: N/A
Efficacy: 111.7 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

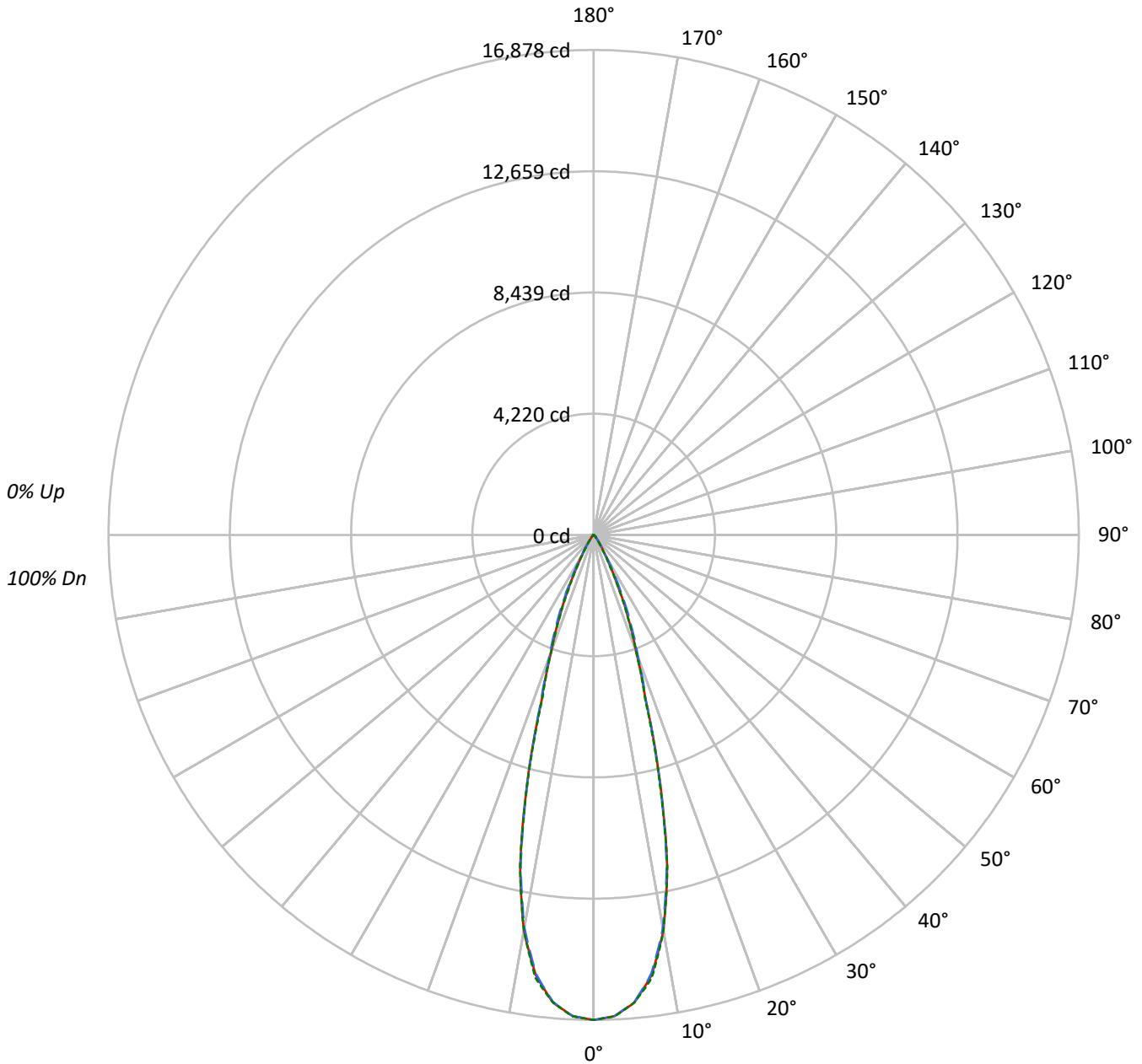
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1291884	1291884	1291884
5°	1254797	1253330	1254859
10°	1086841	1079177	1086584
15°	709111	705299	701757
20°	352606	365834	352133
25°	177620	200297	173980
30°	71114	77487	61958
35°	32985	31593	26482
40°	14239	15817	13409
45°	10045	12470	10132
50°	3453	9074	3656
55°	1988	3763	2095
60°	1393	1653	1393
65°	906	906	906
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12470 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1484.1	28.3
10°-20°	2390.2	45.5
20°-30°	1032.9	19.7
30°-40°	235.4	4.5
40°-50°	80.8	1.5
50°-60°	19.7	0.4
60°-70°	5.1	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°	4907.3	93.5
0°-40°	5142.7	98.0
0°-60°	5243.2	99.9
0°-90°	5248.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5248.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16878	16878	16878	16878	16878	
5°	16331	16315	16312	16346	16332	1485
15°	8948	8841	8900	8871	8856	2396
25°	2103	2183	2372	2127	2060	1007
35°	353	360	338	336	283	239
45°	93	115	115	115	94	66
55°	15	16	28	17	16	15
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°	16877.8	16877.8	16877.8	16877.8	16877.8
2.5°	16765.9	16754.3	16760.9	16769.2	16772.5
5°	16330.9	16315.1	16311.8	16345.8	16331.7
7.5°	15453.3	15431.0	15397.0	15474.1	15546.2
10°	13983.3	13958.5	13884.7	13921.2	13980.0
12.5°	11813.1	11732.7	11731.1	11847.1	11831.3
15°	8948.5	8840.8	8900.4	8871.4	8855.7
17.5°	6017.6	5976.2	6055.7	6031.7	5928.1
20°	4328.8	4339.6	4491.2	4415.0	4323.0
22.5°	3158.8	3197.7	3377.5	3181.2	3109.1
25°	2103.1	2182.6	2371.6	2127.1	2060.0
27.5°	1293.5	1330.0	1521.4	1276.9	1240.5
30°	804.6	786.4	876.7	752.4	701.0
32.5°	527.8	504.6	533.6	479.0	437.5
35°	353.0	360.5	338.1	335.6	283.4
37.5°	220.4	253.6	223.7	238.6	182.3
40°	142.5	184.0	158.3	174.8	134.2
42.5°	116.8	141.7	130.1	138.4	119.3
45°	92.8	115.2	115.2	115.2	93.6
47.5°	51.4	77.1	98.6	78.7	54.7
50°	29.0	38.9	76.2	40.6	30.7
52.5°	19.9	22.4	52.2	23.2	20.7
55°	14.9	15.7	28.2	16.6	15.7
57.5°	11.6	12.4	14.9	12.4	11.6
60°	9.1	9.1	10.8	9.9	9.1
62.5°	6.6	6.6	7.5	6.6	6.6
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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