

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: P749133

Luminaire Tested: LD4D50D010-EU4DR3040509035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749133
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-EU4DR3040509035-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 5278.4 lumens
Efficiency: N/A
Efficacy: 112.3 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

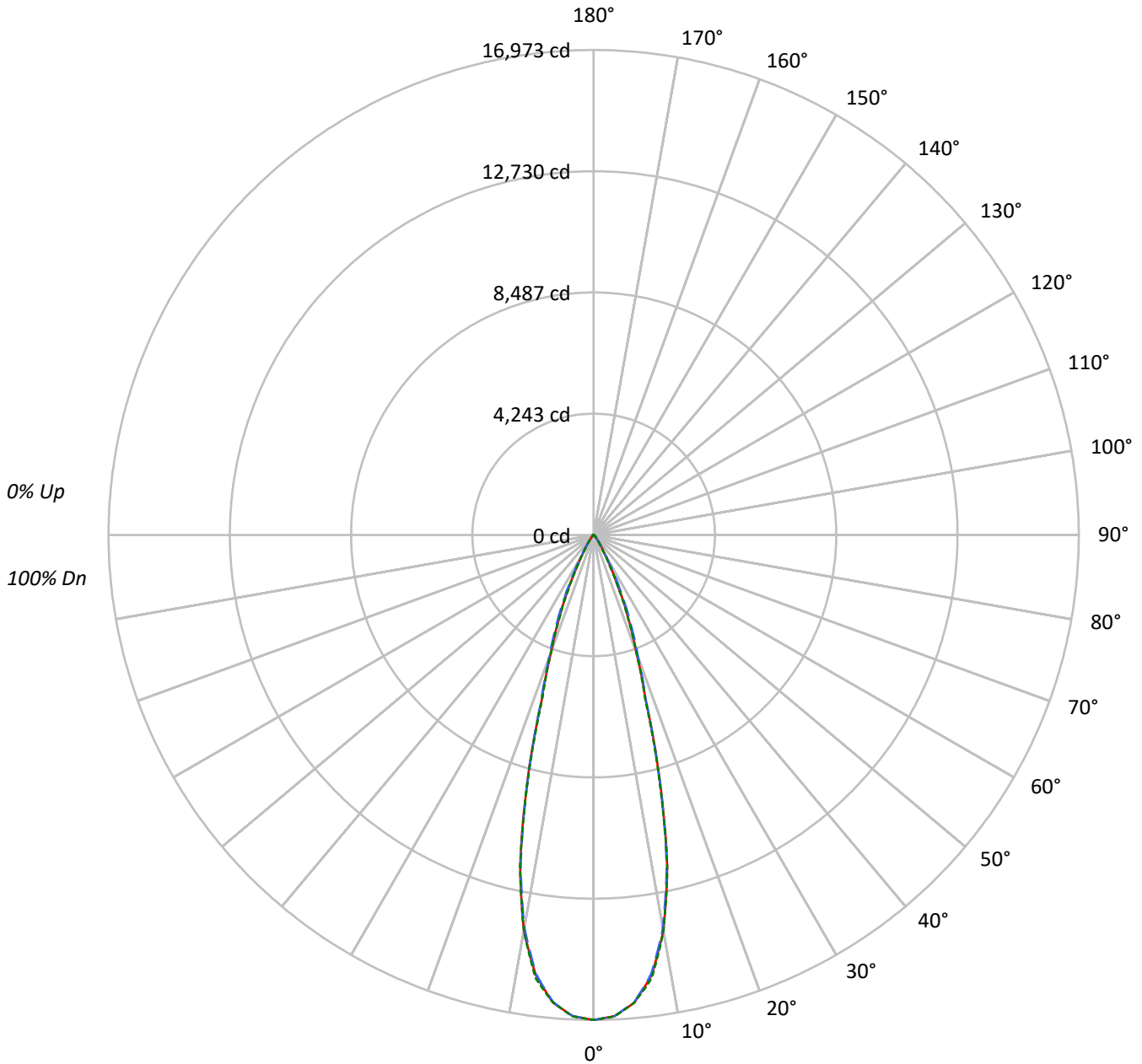
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1299140	1299140	1299140
5°	1261843	1260368	1261905
10°	1092950	1085240	1092686
15°	713097	709262	705696
20°	354585	367895	354113
25°	178617	201420	174960
30°	71512	77920	62311
35°	33172	31770	26631
40°	14319	15907	13489
45°	10100	12535	10197
50°	3477	9133	3668
55°	2002	3777	2108
60°	1408	1653	1408
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: 12535 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1492.5	28.3
10°-20°	2403.7	45.5
20°-30°	1038.7	19.7
30°-40°	236.7	4.5
40°-50°	81.3	1.5
50°-60°	19.9	0.4
60°-70°	5.2	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°	4934.8	93.5
0°-40°	5171.6	98.0
0°-60°	5272.7	99.9
0°-90°	5278.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5278.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16973	16973	16973	16973	16973	
5°	16423	16407	16403	16438	16423	1494
15°	8999	8890	8950	8921	8905	2410
25°	2115	2195	2385	2139	2072	1012
35°	355	362	340	338	285	241
45°	93	116	116	116	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°	16972.6	16972.6	16972.6	16972.6	16972.6
2.5°	16860.1	16848.4	16855.1	16863.4	16866.8
5°	16422.6	16406.8	16403.4	16437.6	16423.4
7.5°	15540.1	15517.6	15483.5	15561.0	15633.5
10°	14061.9	14036.9	13962.7	13999.4	14058.5
12.5°	11879.5	11798.6	11797.0	11913.6	11897.8
15°	8998.8	8890.4	8950.4	8921.3	8905.4
17.5°	6051.4	6009.7	6089.7	6065.6	5961.4
20°	4353.1	4364.0	4516.5	4439.8	4347.3
22.5°	3176.5	3215.7	3396.5	3199.0	3126.5
25°	2114.9	2194.9	2384.9	2139.1	2071.6
27.5°	1300.8	1337.4	1529.9	1284.1	1247.4
30°	809.1	790.8	881.6	756.6	705.0
32.5°	530.8	507.5	536.6	481.6	440.0
35°	355.0	362.5	340.0	337.5	285.0
37.5°	221.7	255.0	225.0	240.0	183.3
40°	143.3	185.0	159.2	175.8	135.0
42.5°	117.5	142.5	130.8	139.2	120.0
45°	93.3	115.8	115.8	115.8	94.2
47.5°	51.7	77.5	99.2	79.2	55.0
50°	29.2	39.2	76.7	40.8	30.8
52.5°	20.0	22.5	52.5	23.3	20.8
55°	15.0	15.8	28.3	16.7	15.8
57.5°	11.7	12.5	15.0	12.5	11.7
60°	9.2	9.2	10.8	10.0	9.2
62.5°	6.7	6.7	7.5	6.7	6.7
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

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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