

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: P793253

Luminaire Tested: LER6D50D010-EC6DR3040509024-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D50D010-EC6DR3040509024-6LBS1LI
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5326.2 lumens
Efficiency: N/A
Efficacy: 113.3 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

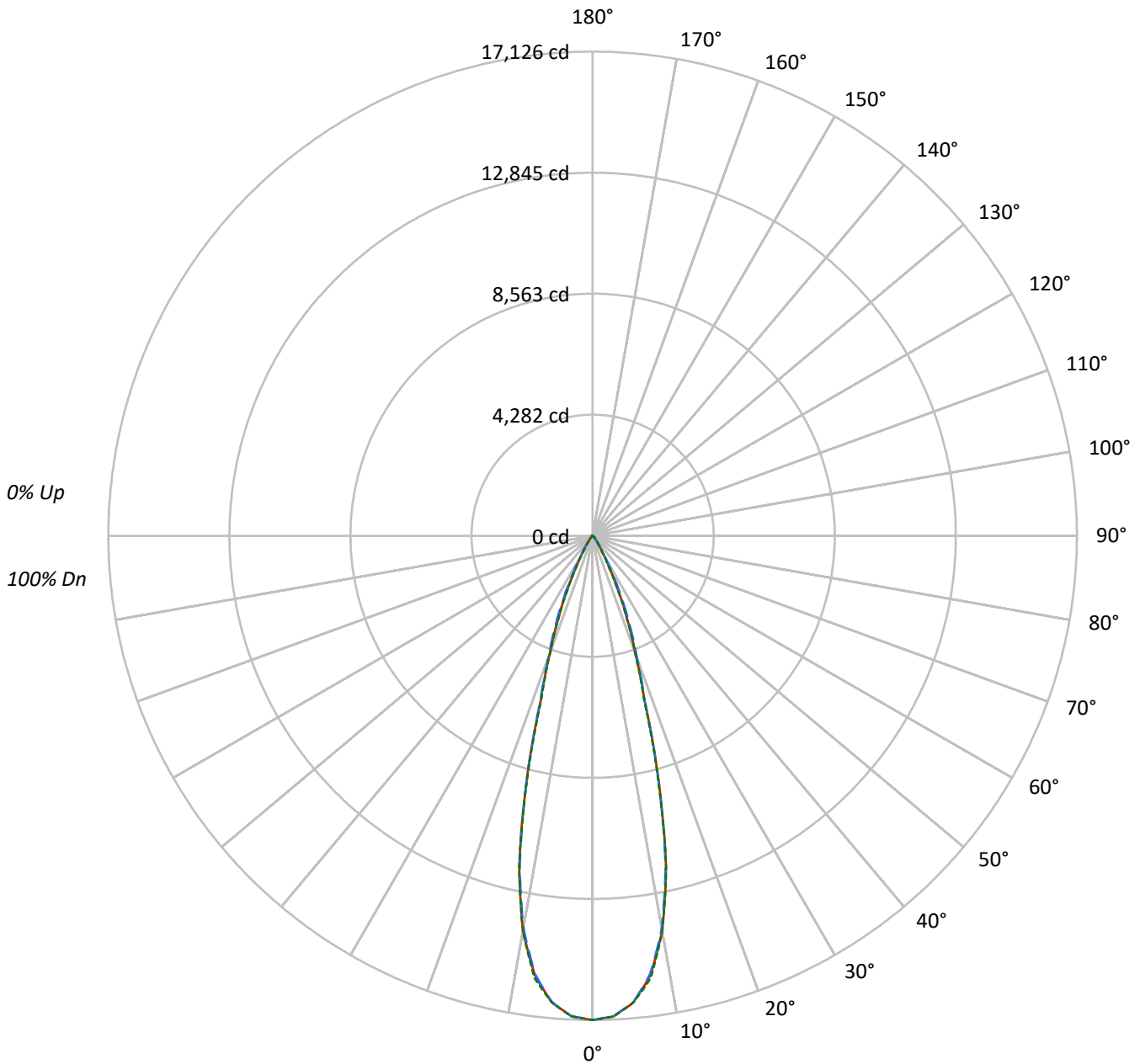


Downlight

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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1310920	1310920	1310920
5°	1273284	1271801	1273353
10°	1102860	1095080	1102596
15°	719563	715696	712098
20°	357803	371227	357322
25°	180238	203244	176547
30°	72166	78627	62877
35°	33471	32060	26874
40°	14448	16047	13609
45°	10197	12654	10284
50°	3501	9217	3703
55°	2015	3817	2135
60°	1408	1669	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: 12654 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1506.0	28.3
10°-20°	2425.5	45.5
20°-30°	1048.1	19.7
30°-40°	238.9	4.5
40°-50°	82.0	1.5
50°-60°	20.0	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°	4979.6	93.5
0°-40°	5218.5	98.0
0°-60°	5320.5	99.9
0°-90°	5326.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5326.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17126	17126	17126	17126	17126	
5°	16572	16556	16552	16587	16572	1507
15°	9080	8971	9032	9002	8986	2431
25°	2134	2215	2406	2158	2090	1022
35°	358	366	343	340	288	243
45°	94	117	117	117	95	67
55°	15	16	29	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°	17126.5	17126.5	17126.5	17126.5	17126.5
2.5°	17013.0	17001.2	17007.9	17016.4	17019.7
5°	16571.5	16555.6	16552.2	16586.7	16572.4
7.5°	15681.1	15658.4	15623.9	15702.1	15775.3
10°	14189.4	14164.2	14089.3	14126.3	14186.0
12.5°	11987.2	11905.6	11904.0	12021.7	12005.7
15°	9080.4	8971.1	9031.6	9002.2	8986.2
17.5°	6106.3	6064.2	6145.0	6120.6	6015.5
20°	4392.6	4403.5	4557.4	4480.1	4386.7
22.5°	3205.3	3244.9	3427.3	3228.0	3154.9
25°	2134.1	2214.8	2406.5	2158.5	2090.4
27.5°	1312.6	1349.6	1543.8	1295.8	1258.8
30°	816.5	798.0	889.6	763.5	711.4
32.5°	535.6	512.1	541.5	486.0	444.0
35°	358.2	365.8	343.1	340.5	287.6
37.5°	223.7	257.3	227.0	242.2	185.0
40°	144.6	186.7	160.6	177.4	136.2
42.5°	118.6	143.8	132.0	140.4	121.1
45°	94.2	116.9	116.9	116.9	95.0
47.5°	52.1	78.2	100.1	79.9	55.5
50°	29.4	39.5	77.4	41.2	31.1
52.5°	20.2	22.7	53.0	23.5	21.0
55°	15.1	16.0	28.6	16.8	16.0
57.5°	11.8	12.6	15.1	12.6	11.8
60°	9.2	9.2	10.9	10.1	9.2
62.5°	6.7	6.7	7.6	6.7	6.7
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.4	3.4	3.4	3.4
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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