

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: P793267

Luminaire Tested: LER6D50D010-EC6DR3040509030-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793267
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-EC6DR3040509030-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5550.3 lumens
Efficiency: N/A
Efficacy: 118.1 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

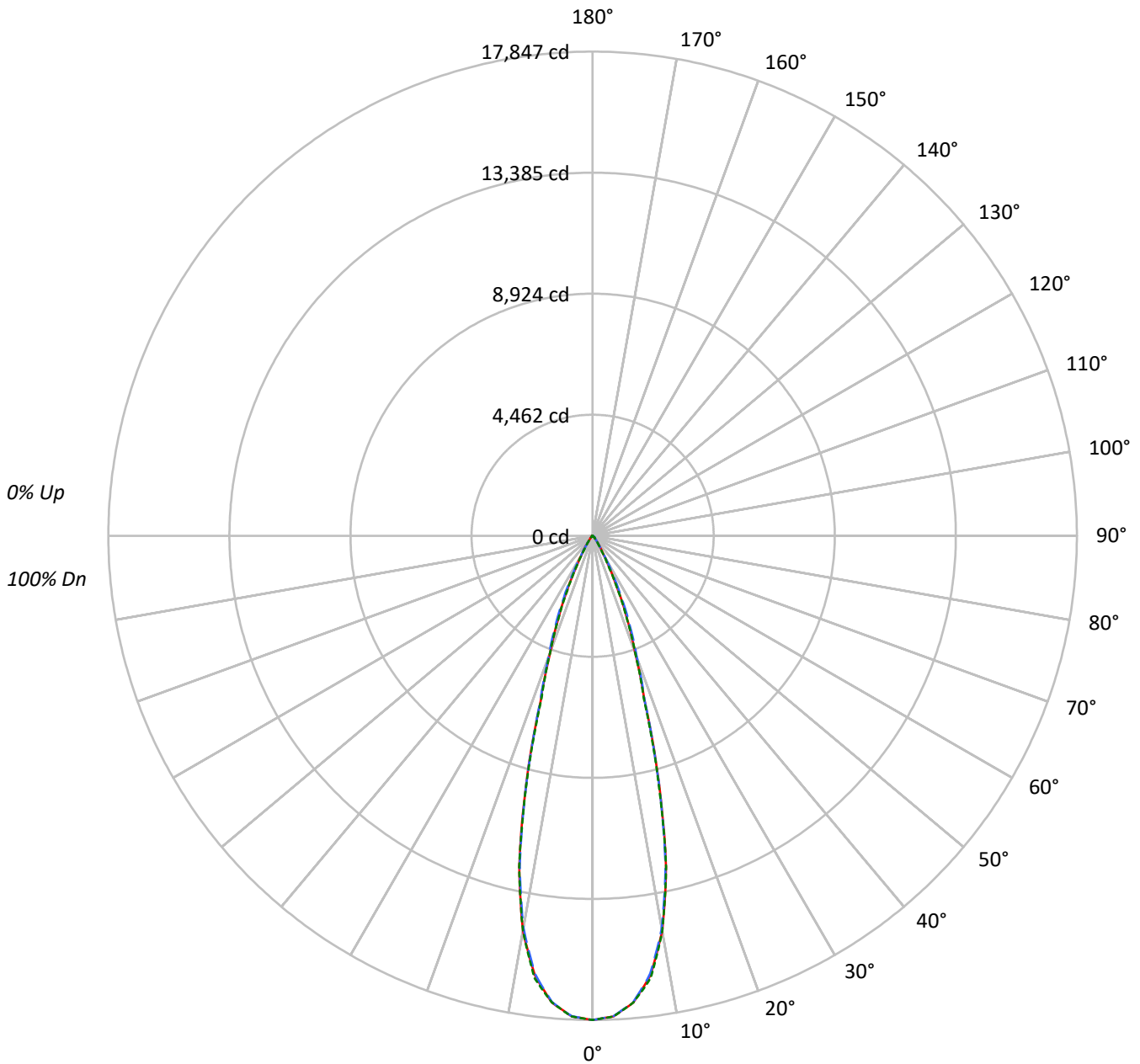


Downlight

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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°	1366062	1366062	1366062
5°	1326846	1325294	1326915
10°	1149253	1141147	1148974
15°	749826	745801	742052
20°	372856	386842	372359
25°	187822	211791	183971
30°	75198	81933	65520
35°	34882	33406	28005
40°	15058	16727	14179
45°	10619	13185	10717
50°	3656	9598	3858
55°	2108	3977	2215
60°	1470	1745	1470
65°	960	960	960
70°	582	403	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13185 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1569.4	28.3
10°-20°	2527.5	45.5
20°-30°	1092.2	19.7
30°-40°	248.9	4.5
40°-50°	85.5	1.5
50°-60°	20.9	0.4
60°-70°	5.4	0.1
70°-80°	0.6	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°	5189.0	93.5
0°-40°	5438.0	98.0
0°-60°	5544.3	99.9
0°-90°	5550.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5550.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17847	17847	17847	17847	17847	
5°	17269	17252	17248	17284	17270	1571
15°	9462	9348	9412	9381	9364	2534
25°	2224	2308	2508	2249	2178	1064
35°	373	381	358	355	300	253
45°	98	122	122	122	99	70
55°	16	17	30	18	17	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°	17846.9	17846.9	17846.9	17846.9	17846.9
2.5°	17728.6	17716.3	17723.4	17732.1	17735.6
5°	17268.6	17251.9	17248.4	17284.4	17269.5
7.5°	16340.7	16317.0	16281.1	16362.6	16438.8
10°	14786.3	14760.0	14682.0	14720.5	14782.7
12.5°	12491.4	12406.4	12404.7	12527.4	12510.7
15°	9462.3	9348.4	9411.5	9380.8	9364.2
17.5°	6363.1	6319.3	6403.4	6378.0	6268.5
20°	4577.4	4588.8	4749.1	4668.5	4571.3
22.5°	3340.2	3381.3	3571.5	3363.8	3287.6
25°	2223.9	2308.0	2507.7	2249.3	2178.3
27.5°	1367.8	1406.3	1608.7	1350.3	1311.7
30°	850.8	831.5	927.0	795.6	741.3
32.5°	558.2	533.6	564.3	506.5	462.6
35°	373.3	381.2	357.5	354.9	299.7
37.5°	233.1	268.1	236.6	252.4	192.8
40°	150.7	194.5	167.4	184.9	141.9
42.5°	123.5	149.8	137.6	146.3	126.2
45°	98.1	121.8	121.8	121.8	99.0
47.5°	54.3	81.5	104.3	83.2	57.8
50°	30.7	41.2	80.6	42.9	32.4
52.5°	21.0	23.7	55.2	24.5	21.9
55°	15.8	16.6	29.8	17.5	16.6
57.5°	12.3	13.1	15.8	13.1	12.3
60°	9.6	9.6	11.4	10.5	9.6
62.5°	7.0	7.0	7.9	7.0	7.0
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.6	3.5	3.5	3.5	3.5
70°	2.6	1.8	1.8	1.8	2.6
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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(END OF REPORT)