

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: P771860

Luminaire Tested: LD6D80BD010-EU6DR3070959030-6LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771860
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: LD6D80BD010-EU6DR3070959030-6LBDP1LI
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 9910.4 lumens
Efficiency: N/A
Efficacy: 125.6 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): 78.9
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

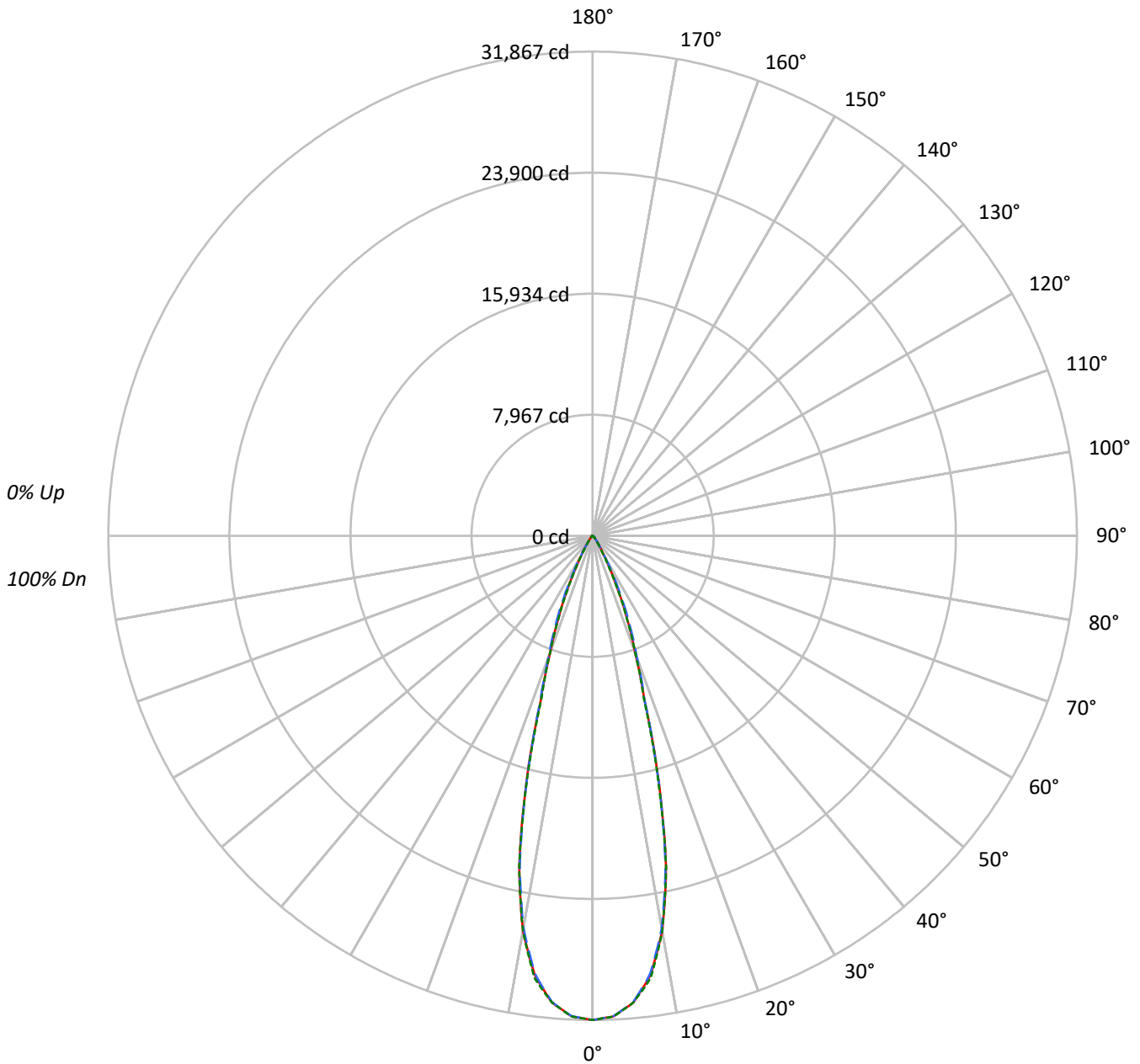


Downlight

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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°	2439193	2439193	2439193
5°	2369170	2366404	2369293
10°	2052059	2037594	2051577
15°	1338867	1331680	1324984
20°	665754	690737	664867
25°	335359	378178	328493
30°	134274	146303	116986
35°	62279	59644	50001
40°	26889	29856	25330
45°	18965	23544	19138
50°	6526	17136	6895
55°	3763	7100	3963
60°	2633	3108	2633
65°	1703	1703	1703
70°	1052	694	1052
75°	0	473	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 23544 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2802.2	28.3
10°-20°	4513.0	45.5
20°-30°	1950.2	19.7
30°-40°	444.5	4.5
40°-50°	152.6	1.5
50°-60°	37.3	0.4
60°-70°	9.7	0.1
70°-80°	1.0	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°	9265.4	93.5
0°-40°	9709.8	98.0
0°-60°	9899.7	99.9
0°-90°	9910.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9910.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31867	31867	31867	31867	31867	
5°	30834	30804	30798	30862	30836	2805
15°	16896	16692	16805	16750	16720	4524
25°	3971	4121	4478	4016	3890	1901
35°	666	681	638	634	535	452
45°	175	218	218	218	177	124
55°	28	30	53	31	30	27
65°	9	9	9	9	9	9
75°	0	0	2	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°	31866.8	31866.8	31866.8	31866.8	31866.8
2.5°	31655.6	31633.7	31646.2	31661.9	31668.1
5°	30834.2	30804.5	30798.2	30862.4	30835.8
7.5°	29177.4	29135.1	29071.0	29216.5	29352.6
10°	26401.8	26354.9	26215.7	26284.5	26395.6
12.5°	22304.3	22152.5	22149.4	22368.4	22338.7
15°	16895.6	16692.2	16804.9	16750.1	16720.4
17.5°	11361.8	11283.6	11433.8	11388.4	11192.8
20°	8173.2	8193.6	8479.9	8335.9	8162.3
22.5°	5964.1	6037.6	6377.1	6006.3	5870.2
25°	3970.8	4121.0	4477.8	4016.2	3889.5
27.5°	2442.3	2511.1	2872.5	2411.0	2342.1
30°	1519.2	1484.8	1655.3	1420.6	1323.6
32.5°	996.6	952.8	1007.6	904.3	826.1
35°	666.5	680.6	638.3	633.6	535.1
37.5°	416.2	478.8	422.4	450.6	344.2
40°	269.1	347.3	298.8	330.1	253.5
42.5°	220.6	267.5	245.6	261.3	225.3
45°	175.2	217.5	217.5	217.5	176.8
47.5°	97.0	145.5	186.2	148.6	103.3
50°	54.8	73.5	143.9	76.7	57.9
52.5°	37.5	42.2	98.6	43.8	39.1
55°	28.2	29.7	53.2	31.3	29.7
57.5°	21.9	23.5	28.2	23.5	21.9
60°	17.2	17.2	20.3	18.8	17.2
62.5°	12.5	12.5	14.1	12.5	12.5
65°	9.4	9.4	9.4	9.4	9.4
67.5°	4.7	6.3	6.3	6.3	6.3
70°	4.7	3.1	3.1	3.1	4.7
72.5°	3.1	1.6	1.6	1.6	1.6
75°	0.0	0.0	1.6	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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