

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: P771901

Luminaire Tested: LD6D80BD010-EU6DR3070959050-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771901
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-EU6DR3070959050-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9923.7 lumens
Efficiency: N/A
Efficacy: 125.8 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

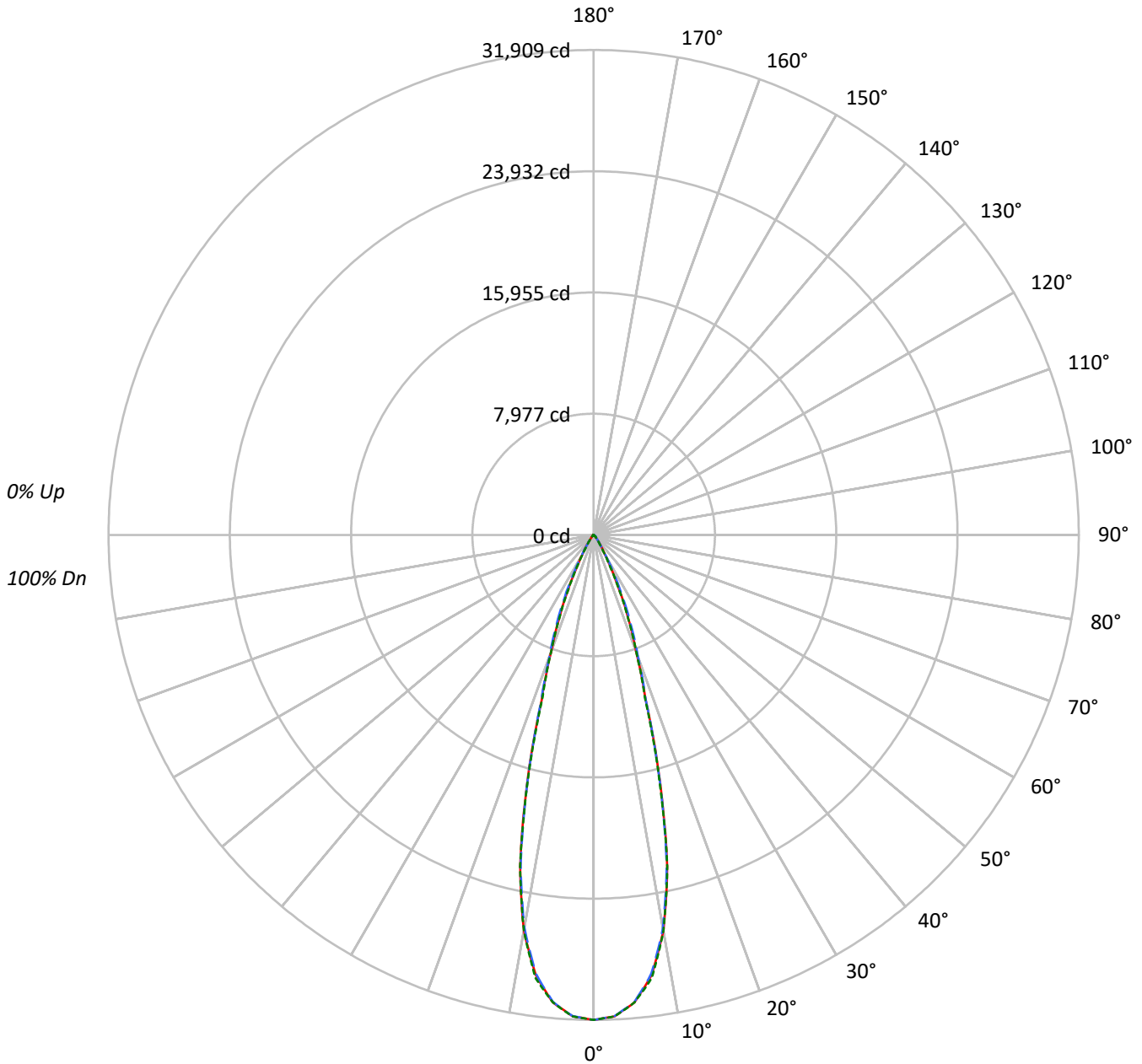
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	2442454	2442454	2442454
5°	2372343	2369569	2372458
10°	2054802	2040315	2054321
15°	1340658	1333455	1326751
20°	666650	691657	665754
25°	335807	378677	328932
30°	134451	146498	117145
35°	62363	59728	50066
40°	26929	29896	25360
45°	18998	23577	19160
50°	6526	17159	6907
55°	3763	7113	3977
60°	2633	3123	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: 23577 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2805.9	28.3
10°-20°	4519.0	45.5
20°-30°	1952.8	19.7
30°-40°	445.1	4.5
40°-50°	152.8	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°	9277.7	93.5
0°-40°	9722.8	98.0
0°-60°	9913.0	99.9
0°-90°	9923.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9923.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31909	31909	31909	31909	31909	
5°	30876	30846	30839	30904	30877	2808
15°	16918	16714	16827	16772	16743	4530
25°	3976	4126	4484	4022	3895	1903
35°	667	682	639	634	536	453
45°	176	218	218	218	177	125
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°	31909.4	31909.4	31909.4	31909.4	31909.4
2.5°	31697.9	31676.0	31688.5	31704.2	31710.5
5°	30875.5	30845.7	30839.4	30903.7	30877.0
7.5°	29216.4	29174.1	29109.8	29255.5	29391.8
10°	26437.1	26390.1	26250.7	26319.6	26430.9
12.5°	22334.1	22182.1	22179.0	22398.3	22368.6
15°	16918.2	16714.5	16827.3	16772.5	16742.7
17.5°	11377.0	11298.6	11449.0	11403.6	11207.8
20°	8184.2	8204.5	8491.2	8347.1	8173.2
22.5°	5972.1	6045.7	6385.6	6014.4	5878.1
25°	3976.1	4126.5	4483.7	4021.6	3894.7
27.5°	2445.5	2514.5	2876.4	2414.2	2345.3
30°	1521.2	1486.7	1657.5	1422.5	1325.4
32.5°	998.0	954.1	1008.9	905.5	827.2
35°	667.4	681.5	639.2	634.5	535.8
37.5°	416.7	479.4	423.0	451.2	344.7
40°	269.5	347.8	299.2	330.6	253.8
42.5°	220.9	267.9	246.0	261.6	225.6
45°	175.5	217.8	217.8	217.8	177.0
47.5°	97.1	145.7	186.4	148.8	103.4
50°	54.8	73.6	144.1	76.8	58.0
52.5°	37.6	42.3	98.7	43.9	39.2
55°	28.2	29.8	53.3	31.3	29.8
57.5°	21.9	23.5	28.2	23.5	21.9
60°	17.2	17.2	20.4	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

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Scaled Data Report





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

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