

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: P771880

Luminaire Tested: LD6D80BD010-EU6DR3070959035-6LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771880
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-EU6DR3070959035-6LBSQW1MW
Description: 6 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8018.9 lumens
Efficiency: N/A
Efficacy: 101.6 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

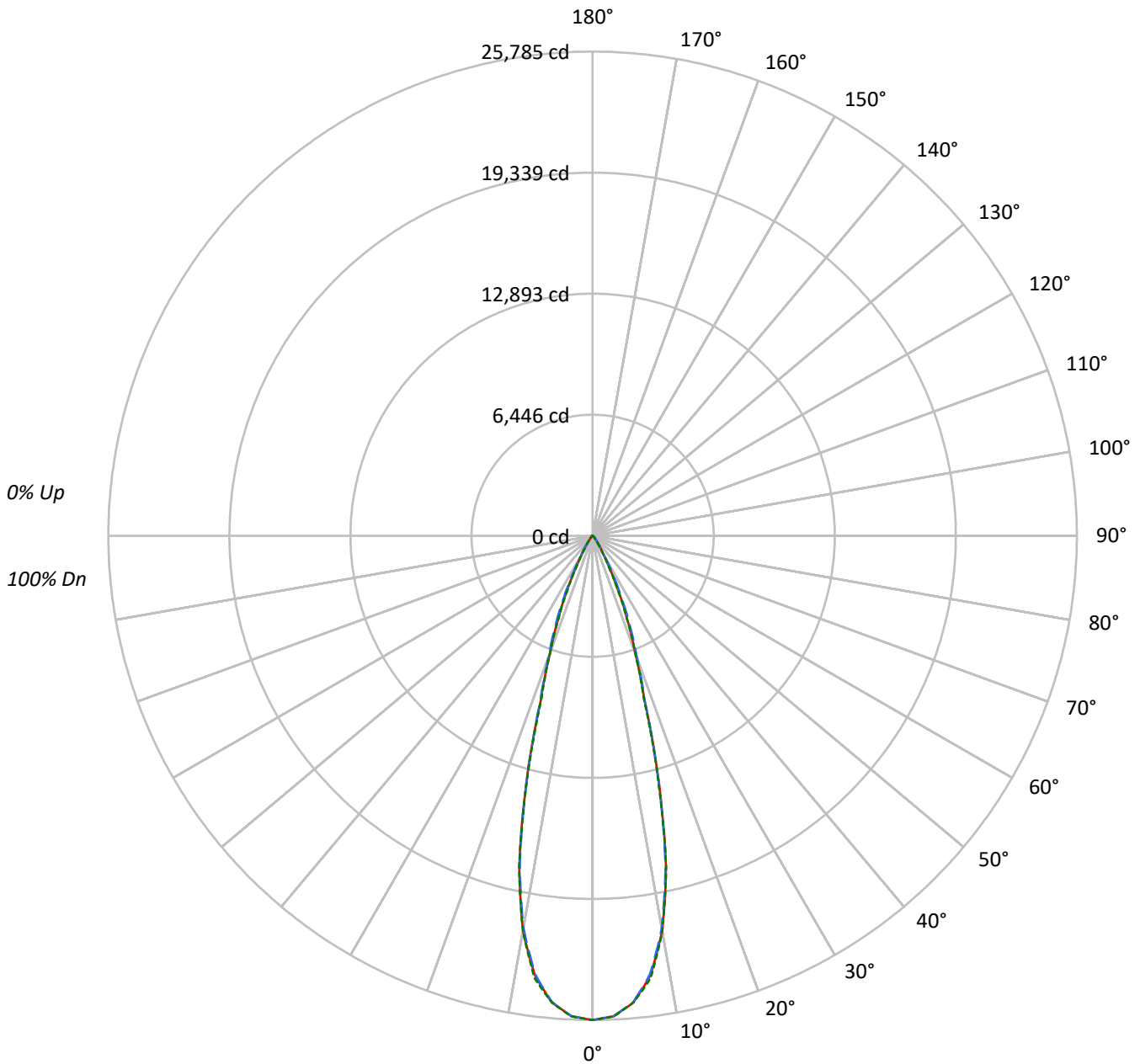
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1973649	1973649	1973649
5°	1916991	1914755	1917083
10°	1660407	1648694	1660010
15°	1083331	1077514	1072094
20°	538692	558901	537967
25°	271358	305994	265792
30°	108642	118382	94660
35°	50393	48263	40460
40°	21753	24161	20494
45°	15350	19052	15490
50°	5275	13873	5573
55°	3043	5738	3216
60°	2128	2526	2128
65°	1376	1376	1376
70°	850	559	850
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 19052 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2267.4	28.3
10°-20°	3651.6	45.5
20°-30°	1578.0	19.7
30°-40°	359.7	4.5
40°-50°	123.5	1.5
50°-60°	30.2	0.4
60°-70°	7.8	0.1
70°-80°	0.8	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°	7497.0	93.5
0°-40°	7856.6	98.0
0°-60°	8010.3	99.9
0°-90°	8018.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8018.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25785	25785	25785	25785	25785	
5°	24949	24925	24920	24972	24950	2269
15°	13671	13506	13598	13553	13529	3661
25°	3213	3334	3623	3250	3147	1538
35°	539	551	516	513	433	366
45°	142	176	176	176	143	101
55°	23	24	43	25	24	22
65°	8	8	8	8	8	7
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°	25784.7	25784.7	25784.7	25784.7	25784.7
2.5°	25613.8	25596.1	25606.2	25618.9	25623.9
5°	24949.2	24925.1	24920.1	24972.0	24950.4
7.5°	23608.5	23574.4	23522.5	23640.2	23750.3
10°	21362.8	21324.8	21212.1	21267.8	21357.7
12.5°	18047.3	17924.5	17921.9	18099.2	18075.1
15°	13670.9	13506.3	13597.5	13553.2	13529.1
17.5°	9193.3	9130.0	9251.5	9214.8	9056.5
20°	6613.3	6629.7	6861.4	6744.9	6604.4
22.5°	4825.8	4885.3	5160.0	4860.0	4749.8
25°	3213.0	3334.5	3623.1	3249.7	3147.1
27.5°	1976.1	2031.8	2324.3	1950.8	1895.1
30°	1229.2	1201.4	1339.4	1149.5	1071.0
32.5°	806.4	771.0	815.3	731.7	668.4
35°	539.3	550.7	516.5	512.7	433.0
37.5°	336.7	387.4	341.8	364.6	278.5
40°	217.7	281.0	241.8	267.1	205.1
42.5°	178.5	216.5	198.8	211.4	182.3
45°	141.8	176.0	176.0	176.0	143.1
47.5°	78.5	117.7	150.6	120.3	83.6
50°	44.3	59.5	116.5	62.0	46.8
52.5°	30.4	34.2	79.8	35.4	31.6
55°	22.8	24.1	43.0	25.3	24.1
57.5°	17.7	19.0	22.8	19.0	17.7
60°	13.9	13.9	16.5	15.2	13.9
62.5°	10.1	10.1	11.4	10.1	10.1
65°	7.6	7.6	7.6	7.6	7.6
67.5°	3.8	5.1	5.1	5.1	5.1
70°	3.8	2.5	2.5	2.5	3.8
72.5°	2.5	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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— 0°-180° - - 45°-225° - - - - 90°-270°

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