

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: P771904

Luminaire Tested: LD6D80BD010-EU6DR3070959050-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771904
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-EU6DR3070959050-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10061.0 lumens
Efficiency: N/A
Efficacy: 127.5 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

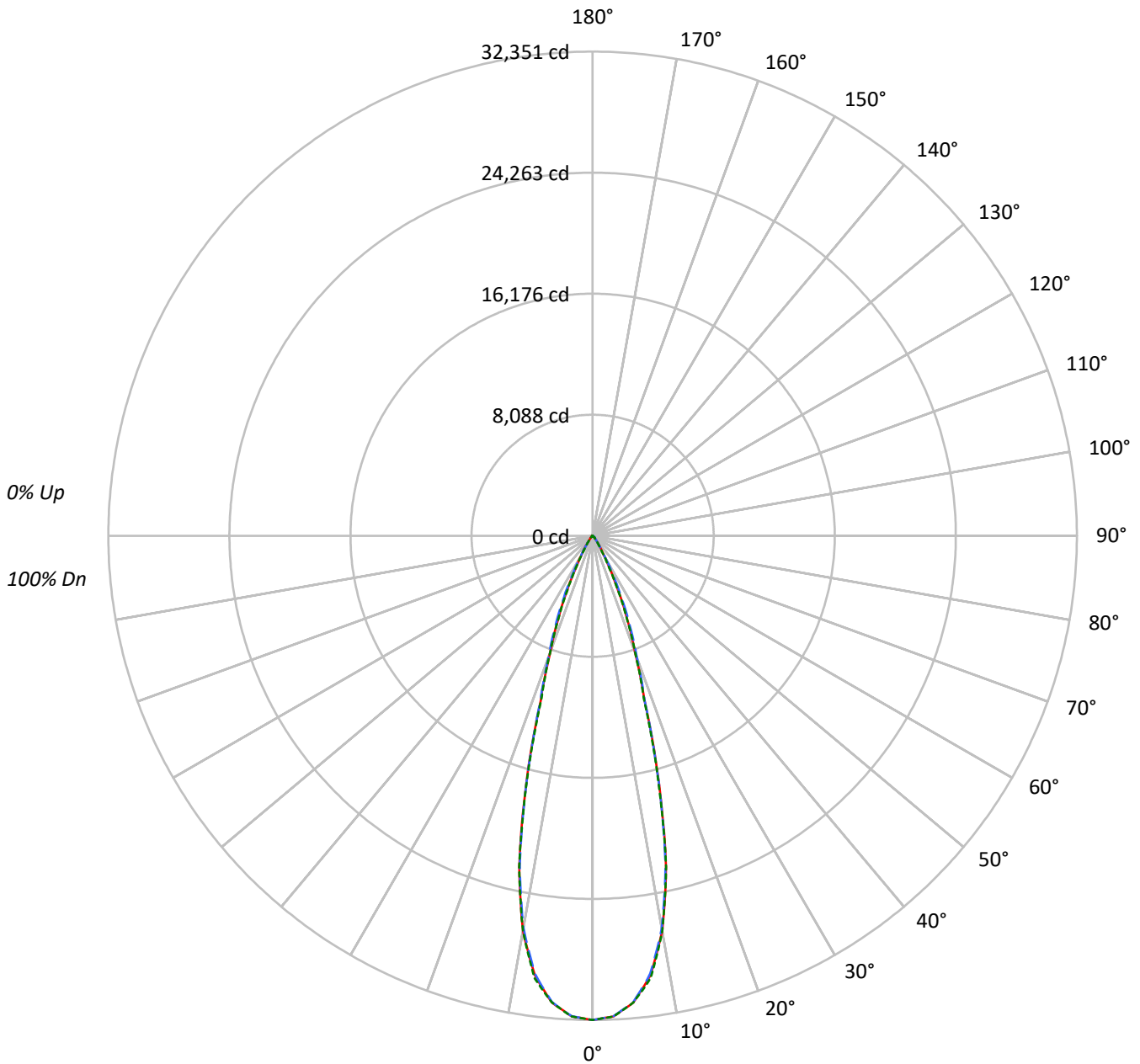


Downlight

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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°	2476248	2476248	2476248
5°	2405167	2402355	2405283
10°	2083234	2068544	2082744
15°	1359209	1351911	1345112
20°	675871	701228	674967
25°	340460	383921	333484
30°	136316	148522	118763
35°	63223	60551	50758
40°	27298	30316	25709
45°	19257	23901	19431
50°	6621	17398	7002
55°	3817	7206	4030
60°	2679	3154	2679
65°	1721	1721	1721
70°	1074	716	1074
75°	0	473	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 23901 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2844.8	28.3
10°-20°	4581.5	45.5
20°-30°	1979.8	19.7
30°-40°	451.2	4.5
40°-50°	154.9	1.5
50°-60°	37.9	0.4
60°-70°	9.8	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°	9406.1	93.5
0°-40°	9857.4	98.0
0°-60°	10050.1	99.9
0°-90°	10061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32351	32351	32351	32351	32351	
5°	31303	31272	31266	31331	31304	2847
15°	17152	16946	17060	17005	16974	4593
25°	4031	4184	4546	4077	3949	1930
35°	677	691	648	643	543	459
45°	178	221	221	221	180	126
55°	29	30	54	32	30	28
65°	10	10	10	10	10	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°	32350.9	32350.9	32350.9	32350.9	32350.9
2.5°	32136.5	32114.3	32127.0	32142.9	32149.2
5°	31302.7	31272.5	31266.1	31331.2	31304.2
7.5°	29620.6	29577.7	29512.6	29660.3	29798.5
10°	26802.9	26755.3	26613.9	26683.8	26796.6
12.5°	22643.1	22489.1	22485.9	22708.2	22678.1
15°	17152.3	16945.8	17060.2	17004.6	16974.4
17.5°	11534.4	11455.0	11607.5	11561.4	11362.9
20°	8297.4	8318.0	8608.7	8462.6	8286.3
22.5°	6054.7	6129.3	6474.0	6097.6	5959.4
25°	4031.2	4183.6	4545.8	4077.2	3948.6
27.5°	2479.4	2549.3	2916.2	2447.6	2377.7
30°	1542.3	1507.3	1680.4	1442.2	1343.7
32.5°	1011.8	967.3	1022.9	918.1	838.6
35°	676.6	690.9	648.0	643.3	543.2
37.5°	422.5	486.0	428.8	457.4	349.4
40°	273.2	352.6	303.4	335.1	257.3
42.5°	224.0	271.6	249.4	265.2	228.7
45°	177.9	220.8	220.8	220.8	179.5
47.5°	98.5	147.7	189.0	150.9	104.8
50°	55.6	74.7	146.1	77.8	58.8
52.5°	38.1	42.9	100.1	44.5	39.7
55°	28.6	30.2	54.0	31.8	30.2
57.5°	22.2	23.8	28.6	23.8	22.2
60°	17.5	17.5	20.6	19.1	17.5
62.5°	12.7	12.7	14.3	12.7	12.7
65°	9.5	9.5	9.5	9.5	9.5
67.5°	4.8	6.4	6.4	6.4	6.4
70°	4.8	3.2	3.2	3.2	4.8
72.5°	3.2	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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