

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: P772632

Luminaire Tested: LD6D85BD010-EU6DR3070959027-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772632
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: LD6D85BD010-EU6DR3070959027-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9758.9 lumens
Efficiency: N/A
Efficacy: 111.3 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): 87.7
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

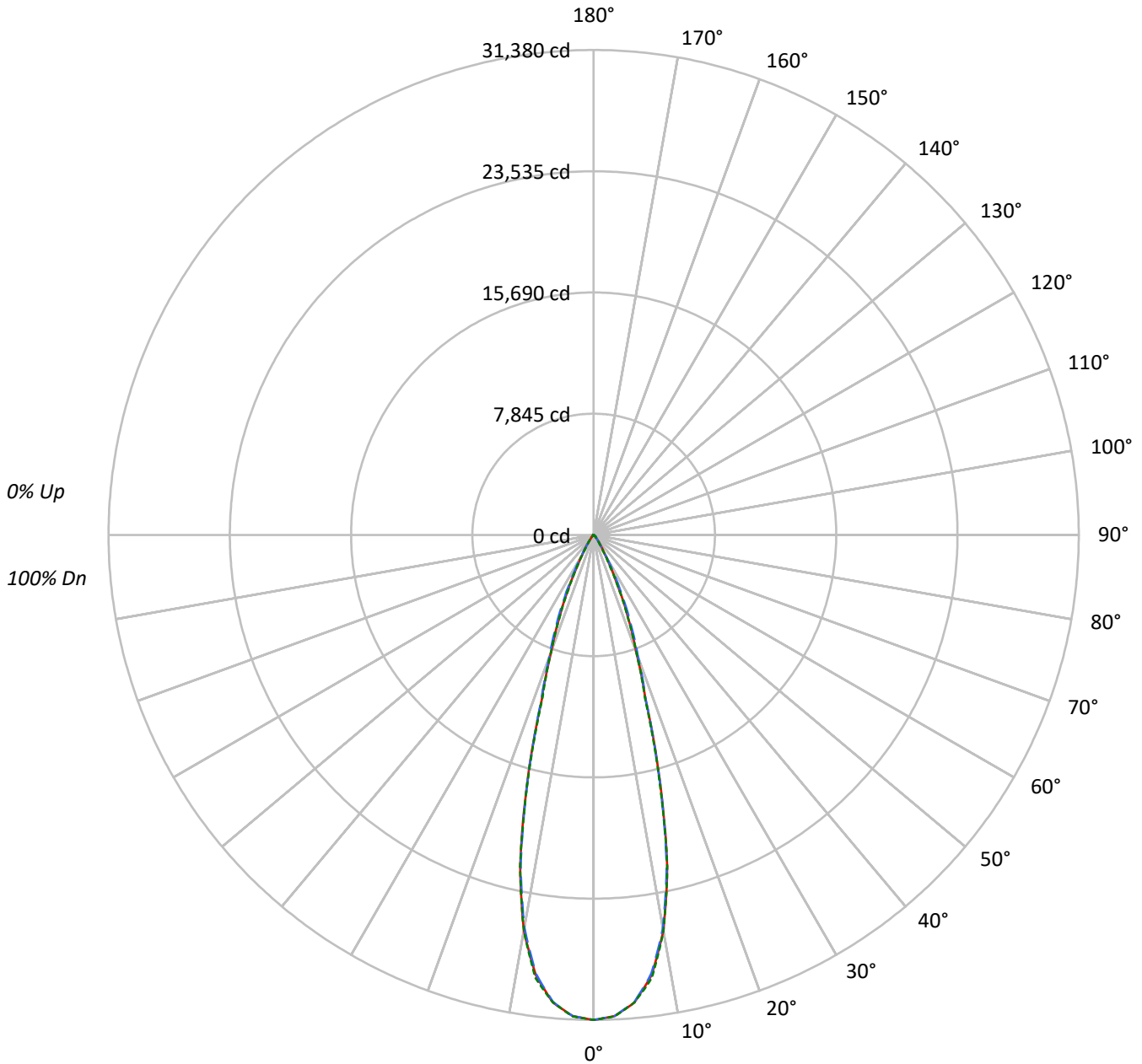


Downlight

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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°	2401901	2401901	2401901
5°	2332942	2330222	2333065
10°	2020682	2006435	2020207
15°	1318399	1311314	1304721
20°	655581	680172	654701
25°	330233	372393	323468
30°	132224	144067	115201
35°	61326	58738	49235
40°	26479	29407	24940
45°	18684	23176	18846
50°	6418	16874	6788
55°	3697	6993	3910
60°	2587	3062	2587
65°	1666	1666	1666
70°	1029	694	1029
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 23176 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2759.4	28.3
10°-20°	4444.0	45.5
20°-30°	1920.4	19.7
30°-40°	437.7	4.5
40°-50°	150.3	1.5
50°-60°	36.7	0.4
60°-70°	9.5	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°	9123.7	93.5
0°-40°	9561.4	98.0
0°-60°	9748.4	99.9
0°-90°	9758.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9758.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31380	31380	31380	31380	31380	
5°	30363	30334	30327	30390	30364	2762
15°	16637	16437	16548	16494	16465	4455
25°	3910	4058	4409	3955	3830	1872
35°	656	670	629	624	527	445
45°	173	214	214	214	174	122
55°	28	29	52	31	29	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°	31379.6	31379.6	31379.6	31379.6	31379.6
2.5°	31171.6	31150.0	31162.3	31177.7	31183.9
5°	30362.7	30333.5	30327.3	30390.5	30364.3
7.5°	28731.2	28689.6	28626.4	28769.7	28903.8
10°	25998.1	25951.9	25814.8	25882.6	25992.0
12.5°	21963.2	21813.8	21810.7	22026.4	21997.1
15°	16637.3	16437.0	16547.9	16494.0	16464.7
17.5°	11188.1	11111.0	11258.9	11214.2	11021.7
20°	8048.3	8068.3	8350.2	8208.5	8037.5
22.5°	5872.9	5945.3	6279.6	5914.5	5780.4
25°	3910.1	4058.0	4409.3	3954.8	3830.0
27.5°	2404.9	2472.7	2828.6	2374.1	2306.3
30°	1496.0	1462.1	1630.0	1398.9	1303.4
32.5°	981.4	938.2	992.2	890.5	813.5
35°	656.3	670.2	628.6	624.0	526.9
37.5°	409.8	471.4	416.0	443.7	338.9
40°	265.0	342.0	294.3	325.1	249.6
42.5°	217.2	263.4	241.9	257.3	221.9
45°	172.6	214.1	214.1	214.1	174.1
47.5°	95.5	143.3	183.3	146.4	101.7
50°	53.9	72.4	141.7	75.5	57.0
52.5°	37.0	41.6	97.1	43.1	38.5
55°	27.7	29.3	52.4	30.8	29.3
57.5°	21.6	23.1	27.7	23.1	21.6
60°	16.9	16.9	20.0	18.5	16.9
62.5°	12.3	12.3	13.9	12.3	12.3
65°	9.2	9.2	9.2	9.2	9.2
67.5°	4.6	6.2	6.2	6.2	6.2
70°	4.6	3.1	3.1	3.1	4.6
72.5°	3.1	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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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