

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: P772678

Luminaire Tested: LD6D85BD010-EU6DR3070959050-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772678
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-EU6DR3070959050-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10704.4 lumens
Efficiency: N/A
Efficacy: 122.1 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

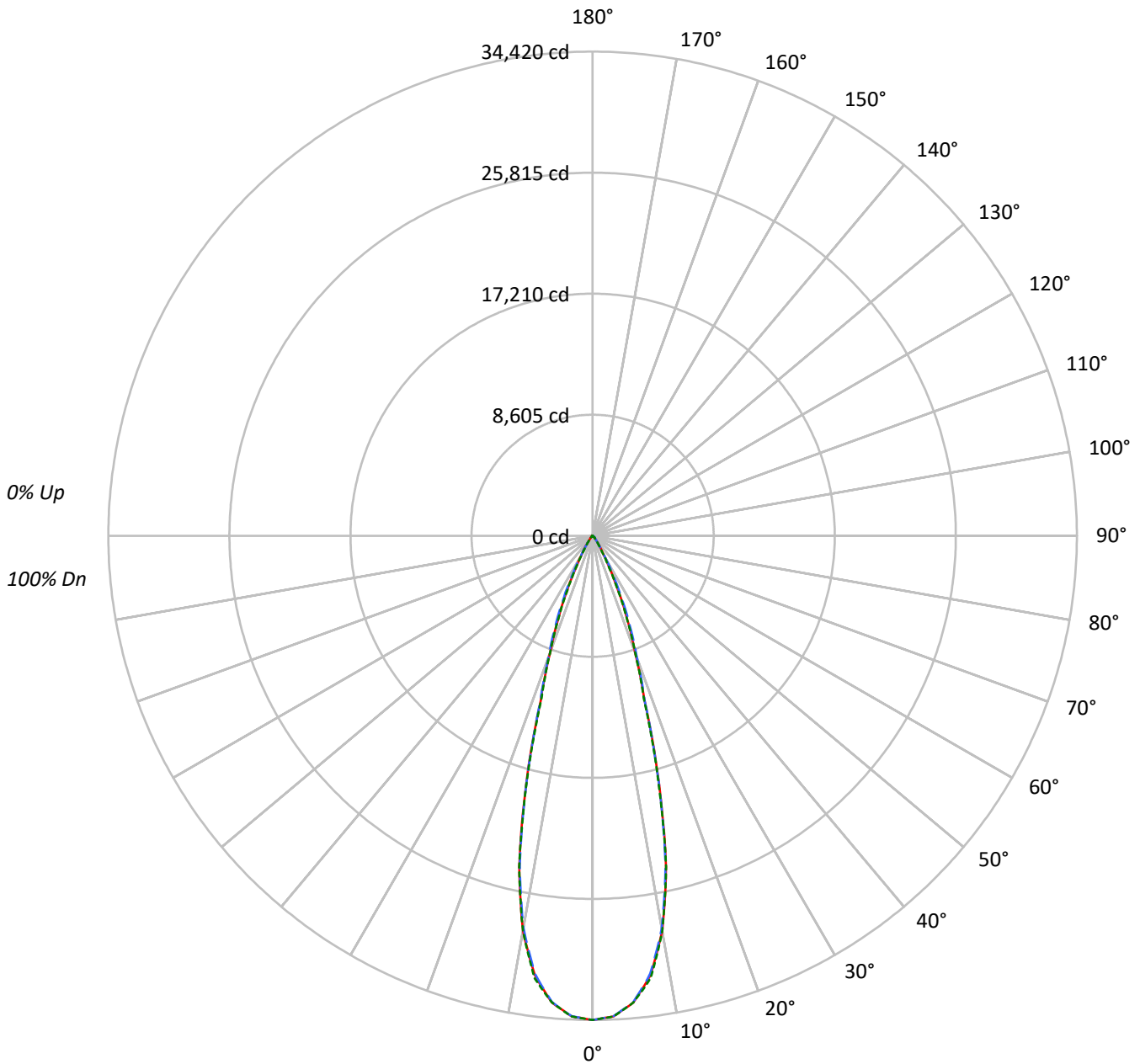


Downlight

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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2634616	2634616	2634616
5°	2558985	2555996	2559116
10°	2216469	2200838	2215940
15°	1446139	1438366	1431139
20°	719100	746078	718130
25°	362233	408473	354809
30°	145030	158023	126364
35°	67269	64428	54000
40°	29047	32254	27358
45°	20491	25428	20676
50°	7038	18517	7443
55°	4057	7673	4284
60°	2847	3368	2847
65°	1829	1829	1829
70°	1141	761	1141
75°	0	503	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 25428 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3026.7	28.3
10°-20°	4874.6	45.5
20°-30°	2106.4	19.7
30°-40°	480.1	4.5
40°-50°	164.8	1.5
50°-60°	40.3	0.4
60°-70°	10.4	0.1
70°-80°	1.1	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°	10007.7	93.5
0°-40°	10487.8	98.0
0°-60°	10692.9	99.9
0°-90°	10704.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10704.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34420	34420	34420	34420	34420	
5°	33305	33272	33266	33335	33306	3029
15°	18249	18030	18151	18092	18060	4886
25°	4289	4451	4836	4338	4201	2053
35°	720	735	690	684	578	488
45°	189	235	235	235	191	134
55°	30	32	58	34	32	30
65°	10	10	10	10	10	10
75°	0	0	2	0	0	2
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°	34419.9	34419.9	34419.9	34419.9	34419.9
2.5°	34191.8	34168.1	34181.7	34198.6	34205.3
5°	33304.6	33272.5	33265.7	33335.0	33306.3
7.5°	31515.0	31469.4	31400.1	31557.2	31704.3
10°	28517.1	28466.4	28316.0	28390.4	28510.3
12.5°	24091.3	23927.3	23924.0	24160.5	24128.4
15°	18249.3	18029.6	18151.2	18092.1	18060.0
17.5°	12272.1	12187.6	12349.8	12300.8	12089.6
20°	8828.1	8850.0	9159.3	9003.8	8816.2
22.5°	6441.9	6521.3	6888.0	6487.5	6340.5
25°	4289.0	4451.2	4836.5	4338.0	4201.1
27.5°	2637.9	2712.3	3102.7	2604.1	2529.8
30°	1640.9	1603.7	1787.9	1534.4	1429.7
32.5°	1076.5	1029.2	1088.3	976.8	892.3
35°	719.9	735.1	689.5	684.4	577.9
37.5°	449.5	517.1	456.3	486.7	371.8
40°	290.7	375.2	322.8	356.6	273.8
42.5°	238.3	289.0	265.3	282.2	243.3
45°	189.3	234.9	234.9	234.9	191.0
47.5°	104.8	157.2	201.1	160.5	111.5
50°	59.1	79.4	155.5	82.8	62.5
52.5°	40.6	45.6	106.5	47.3	42.2
55°	30.4	32.1	57.5	33.8	32.1
57.5°	23.7	25.3	30.4	25.3	23.7
60°	18.6	18.6	22.0	20.3	18.6
62.5°	13.5	13.5	15.2	13.5	13.5
65°	10.1	10.1	10.1	10.1	10.1
67.5°	5.1	6.8	6.8	6.8	6.8
70°	5.1	3.4	3.4	3.4	5.1
72.5°	3.4	1.7	1.7	1.7	1.7
75°	0.0	0.0	1.7	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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