

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: P772613

Luminaire Tested: LD6D85BD010-EU6DR3070959024-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772613
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-EU6DR3070959024-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8610.0 lumens
Efficiency: N/A
Efficacy: 98.2 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

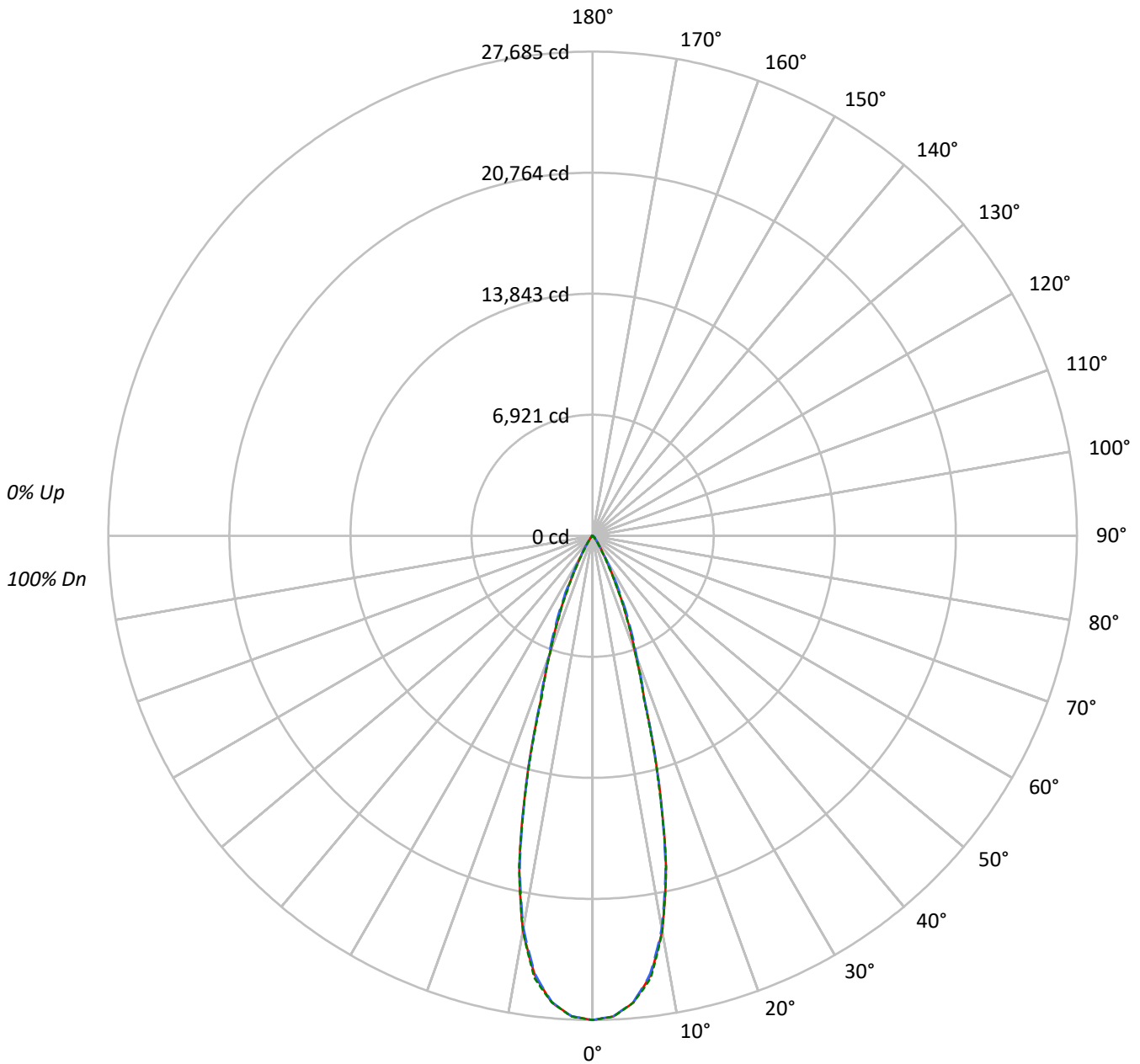


Downlight

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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																			
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°	2119127	2119127	2119127
5°	2058292	2055887	2058392
10°	1782791	1770223	1782371
15°	1163184	1156932	1151116
20°	578393	600101	577619
25°	291357	328552	285386
30°	116650	127106	101634
35°	54103	51823	43441
40°	23361	25939	22002
45°	16475	20448	16627
50°	5668	14897	5990
55°	3270	6165	3443
60°	2296	2710	2296
65°	1485	1485	1485
70°	918	604	918
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 20448 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2434.5	28.3
10°-20°	3920.8	45.5
20°-30°	1694.3	19.7
30°-40°	386.2	4.5
40°-50°	132.6	1.5
50°-60°	32.4	0.4
60°-70°	8.4	0.1
70°-80°	0.9	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°	8049.6	93.5
0°-40°	8435.7	98.0
0°-60°	8600.7	99.9
0°-90°	8610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27685	27685	27685	27685	27685	
5°	26788	26762	26757	26813	26790	2437
15°	14679	14502	14600	14552	14526	3930
25°	3450	3580	3890	3489	3379	1651
35°	579	591	555	550	465	393
45°	152	189	189	189	154	108
55°	24	26	46	27	26	24
65°	8	8	8	8	8	8
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°	27685.3	27685.3	27685.3	27685.3	27685.3
2.5°	27501.8	27482.8	27493.6	27507.2	27512.7
5°	26788.2	26762.4	26756.9	26812.6	26789.5
7.5°	25348.7	25312.0	25256.3	25382.7	25501.0
10°	22937.4	22896.6	22775.7	22835.5	22932.0
12.5°	19377.5	19245.7	19243.0	19433.3	19407.4
15°	14678.6	14501.9	14599.7	14552.2	14526.3
17.5°	9870.9	9802.9	9933.4	9894.0	9724.1
20°	7100.7	7118.4	7367.2	7242.1	7091.2
22.5°	5181.5	5245.4	5540.3	5218.2	5099.9
25°	3449.8	3580.3	3890.2	3489.2	3379.1
27.5°	2121.8	2181.6	2495.6	2094.6	2034.8
30°	1319.8	1289.9	1438.1	1234.2	1149.9
32.5°	865.8	827.8	875.4	785.6	717.7
35°	579.0	591.3	554.6	550.5	464.9
37.5°	361.6	415.9	367.0	391.5	299.0
40°	233.8	301.8	259.6	286.8	220.2
42.5°	191.7	232.4	213.4	227.0	195.7
45°	152.2	188.9	188.9	188.9	153.6
47.5°	84.3	126.4	161.8	129.1	89.7
50°	47.6	63.9	125.1	66.6	50.3
52.5°	32.6	36.7	85.6	38.1	34.0
55°	24.5	25.8	46.2	27.2	25.8
57.5°	19.0	20.4	24.5	20.4	19.0
60°	15.0	15.0	17.7	16.3	15.0
62.5°	10.9	10.9	12.2	10.9	10.9
65°	8.2	8.2	8.2	8.2	8.2
67.5°	4.1	5.4	5.4	5.4	5.4
70°	4.1	2.7	2.7	2.7	4.1
72.5°	2.7	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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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