

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: P772639

Luminaire Tested: LD6D85BD010-EU6DR3070959030-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772639
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-EU6DR3070959030-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10048.0 lumens
Efficiency: N/A
Efficacy: 114.6 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

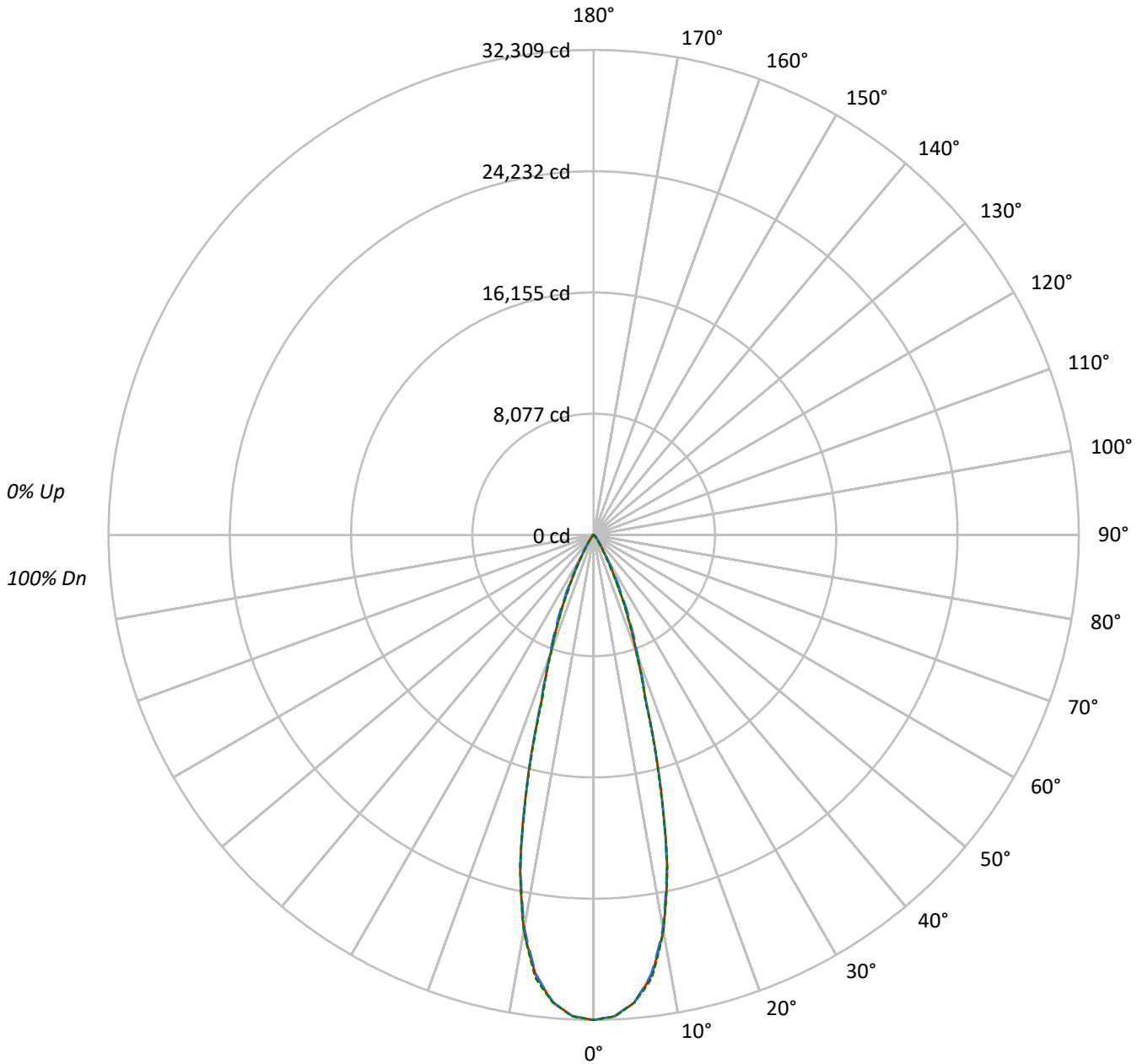
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P772639
CATALOG NUMBER: LD6D85BD010-EU6DR3070959030-6LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P772639

CATALOG NUMBER: LD6D85BD010-EU6DR3070959030-6LBDP1H

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°	2473048	2473048	2473048
5°	2402048	2399251	2402171
10°	2080537	2065870	2080047
15°	1357450	1350160	1343368
20°	675000	700324	674095
25°	340013	383423	333053
30°	136139	148336	118612
35°	63139	60476	50692
40°	27258	30276	25680
45°	19236	23869	19398
50°	6609	17374	6990
55°	3817	7193	4017
60°	2664	3154	2664
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: 23869 cd/sqm



TEST NUMBER: P772639

CATALOG NUMBER: LD6D85BD010-EU6DR3070959030-6LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2841.1	28.3
10°-20°	4575.6	45.5
20°-30°	1977.2	19.7
30°-40°	450.7	4.5
40°-50°	154.7	1.5
50°-60°	37.8	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°	9393.9	93.5
0°-40°	9844.6	98.0
0°-60°	10037.1	99.9
0°-90°	10048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32309	32309	32309	32309	32309	
5°	31262	31232	31226	31291	31264	2843
15°	17130	16924	17038	16983	16952	4587
25°	4026	4178	4540	4072	3944	1927
35°	676	690	647	642	542	458
45°	178	220	220	220	179	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	



TEST NUMBER: P772639

CATALOG NUMBER: LD6D85BD010-EU6DR3070959030-6LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32309.1	32309.1	32309.1	32309.1	32309.1
2.5°	32094.9	32072.7	32085.4	32101.3	32107.6
5°	31262.1	31232.0	31225.7	31290.7	31263.7
7.5°	29582.3	29539.5	29474.4	29621.9	29759.9
10°	26768.2	26720.7	26579.5	26649.3	26761.9
12.5°	22613.8	22459.9	22456.8	22678.9	22648.7
15°	17130.1	16923.9	17038.1	16982.6	16952.4
17.5°	11519.5	11440.2	11592.4	11546.4	11348.2
20°	8286.7	8307.3	8597.6	8451.6	8275.6
22.5°	6046.8	6121.4	6465.6	6089.7	5951.7
25°	4025.9	4178.2	4539.9	4071.9	3943.5
27.5°	2476.2	2546.0	2912.4	2444.4	2374.6
30°	1540.3	1505.4	1678.3	1440.3	1342.0
32.5°	1010.5	966.0	1021.6	916.9	837.5
35°	675.7	690.0	647.2	642.4	542.5
37.5°	421.9	485.4	428.3	456.8	349.0
40°	272.8	352.2	303.0	334.7	257.0
42.5°	223.7	271.3	249.0	264.9	228.4
45°	177.7	220.5	220.5	220.5	179.2
47.5°	98.3	147.5	188.8	150.7	104.7
50°	55.5	74.6	145.9	77.7	58.7
52.5°	38.1	42.8	99.9	44.4	39.7
55°	28.6	30.1	53.9	31.7	30.1
57.5°	22.2	23.8	28.6	23.8	22.2
60°	17.4	17.4	20.6	19.0	17.4
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	6.3	6.3	6.3	6.3
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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)