

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: P772620

Luminaire Tested: LD6D85BD010-EU6DR3070959024-6LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772620
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-EU6DR3070959024-6LBSQW1B
Description: 6 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6538.3 lumens
Efficiency: N/A
Efficacy: 74.6 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

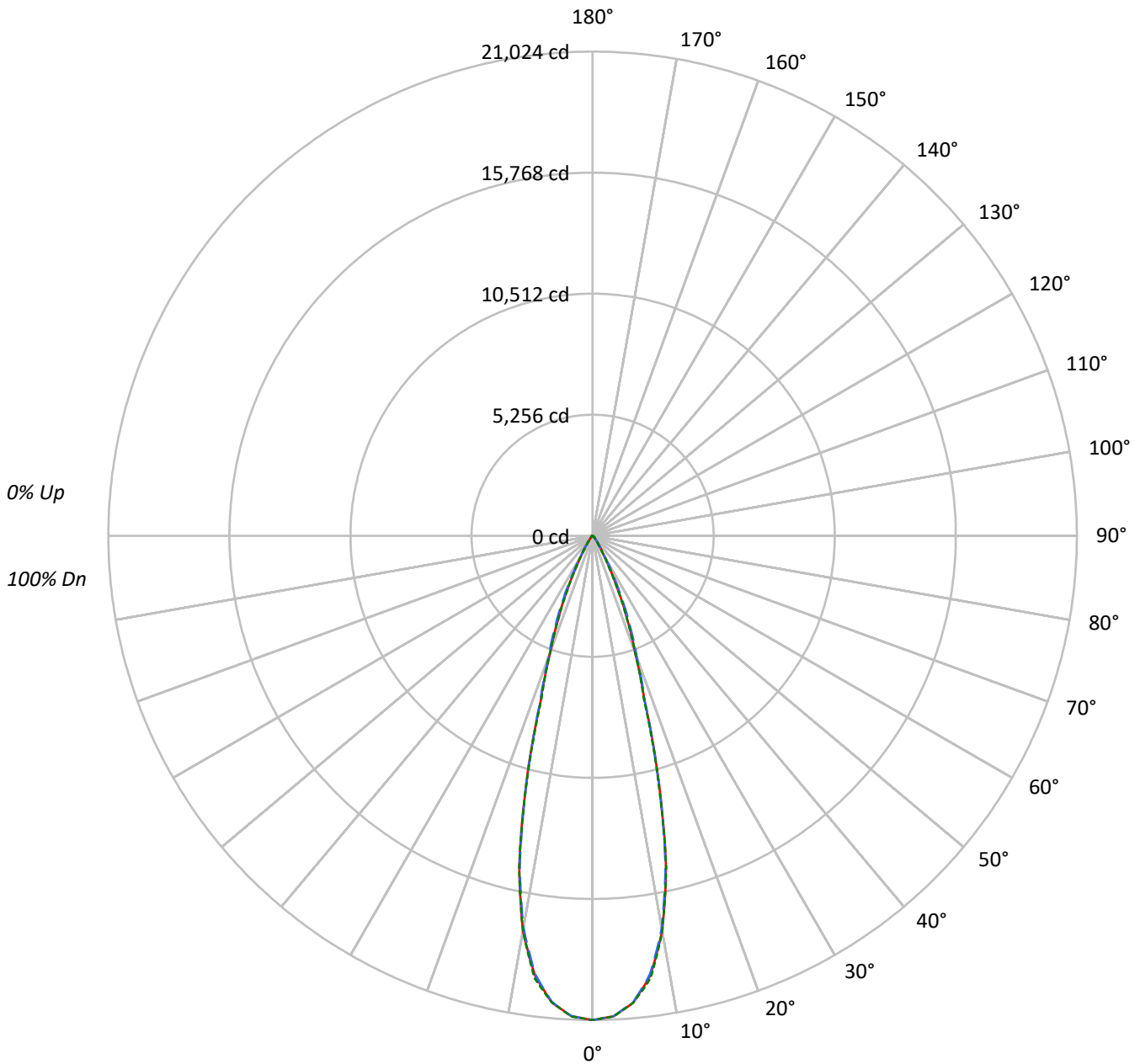
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P772620

CATALOG NUMBER: LD6D85BD010-EU6DR3070959024-6LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P772620

CATALOG NUMBER: LD6D85BD010-EU6DR3070959024-6LBSQW1B

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°	1609225	1609225	1609225
5°	1563032	1561211	1563109
10°	1353823	1344279	1353505
15°	883304	878557	874144
20°	439226	455704	438639
25°	221250	249492	216715
30°	88588	96525	77178
35°	41087	39349	32985
40°	17736	19694	16707
45°	12514	15534	12622
50°	4299	11313	4549
55°	2482	4684	2616
60°	1745	2051	1745
65°	1123	1123	1123
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15534 cd/sqm



TEST NUMBER: P772620

CATALOG NUMBER: LD6D85BD010-EU6DR3070959024-6LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1848.7	28.3
10°-20°	2977.4	45.5
20°-30°	1286.6	19.7
30°-40°	293.2	4.5
40°-50°	100.7	1.5
50°-60°	24.6	0.4
60°-70°	6.4	0.1
70°-80°	0.7	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°	6112.7	93.5
0°-40°	6405.9	98.0
0°-60°	6531.2	99.9
0°-90°	6538.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6538.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21024	21024	21024	21024	21024	
5°	20342	20323	20319	20361	20344	1850
15°	11147	11012	11087	11051	11031	2985
25°	2620	2719	2954	2650	2566	1254
35°	440	449	421	418	353	298
45°	116	144	144	144	117	82
55°	19	20	35	21	20	18
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P772620

CATALOG NUMBER: LD6D85BD010-EU6DR3070959024-6LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21023.7	21023.7	21023.7	21023.7	21023.7
2.5°	20884.4	20869.9	20878.2	20888.5	20892.7
5°	20342.5	20322.9	20318.8	20361.1	20343.5
7.5°	19249.4	19221.5	19179.2	19275.2	19365.0
10°	17418.3	17387.3	17295.5	17340.9	17414.2
12.5°	14715.0	14614.8	14612.8	14757.3	14737.7
15°	11146.7	11012.5	11086.8	11050.7	11031.1
17.5°	7495.8	7444.2	7543.3	7513.3	7384.3
20°	5392.2	5405.6	5594.5	5499.5	5385.0
22.5°	3934.7	3983.2	4207.2	3962.6	3872.8
25°	2619.7	2718.8	2954.1	2649.6	2566.0
27.5°	1611.3	1656.7	1895.1	1590.6	1545.2
30°	1002.3	979.6	1092.1	937.2	873.2
32.5°	657.5	628.6	664.7	596.6	545.0
35°	439.7	449.0	421.1	418.0	353.0
37.5°	274.6	315.9	278.7	297.3	227.1
40°	177.5	229.1	197.1	217.8	167.2
42.5°	145.5	176.5	162.1	172.4	148.6
45°	115.6	143.5	143.5	143.5	116.6
47.5°	64.0	96.0	122.8	98.1	68.1
50°	36.1	48.5	95.0	50.6	38.2
52.5°	24.8	27.9	65.0	28.9	25.8
55°	18.6	19.6	35.1	20.6	19.6
57.5°	14.5	15.5	18.6	15.5	14.5
60°	11.4	11.4	13.4	12.4	11.4
62.5°	8.3	8.3	9.3	8.3	8.3
65°	6.2	6.2	6.2	6.2	6.2
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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)