

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: P771853

Luminaire Tested: LD6D80BD010-EU6DR3070959027-6LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771853
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: LD6D80BD010-EU6DR3070959027-6LBSQW1B
Description: 6 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6957.2 lumens
Efficiency: N/A
Efficacy: 88.2 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')

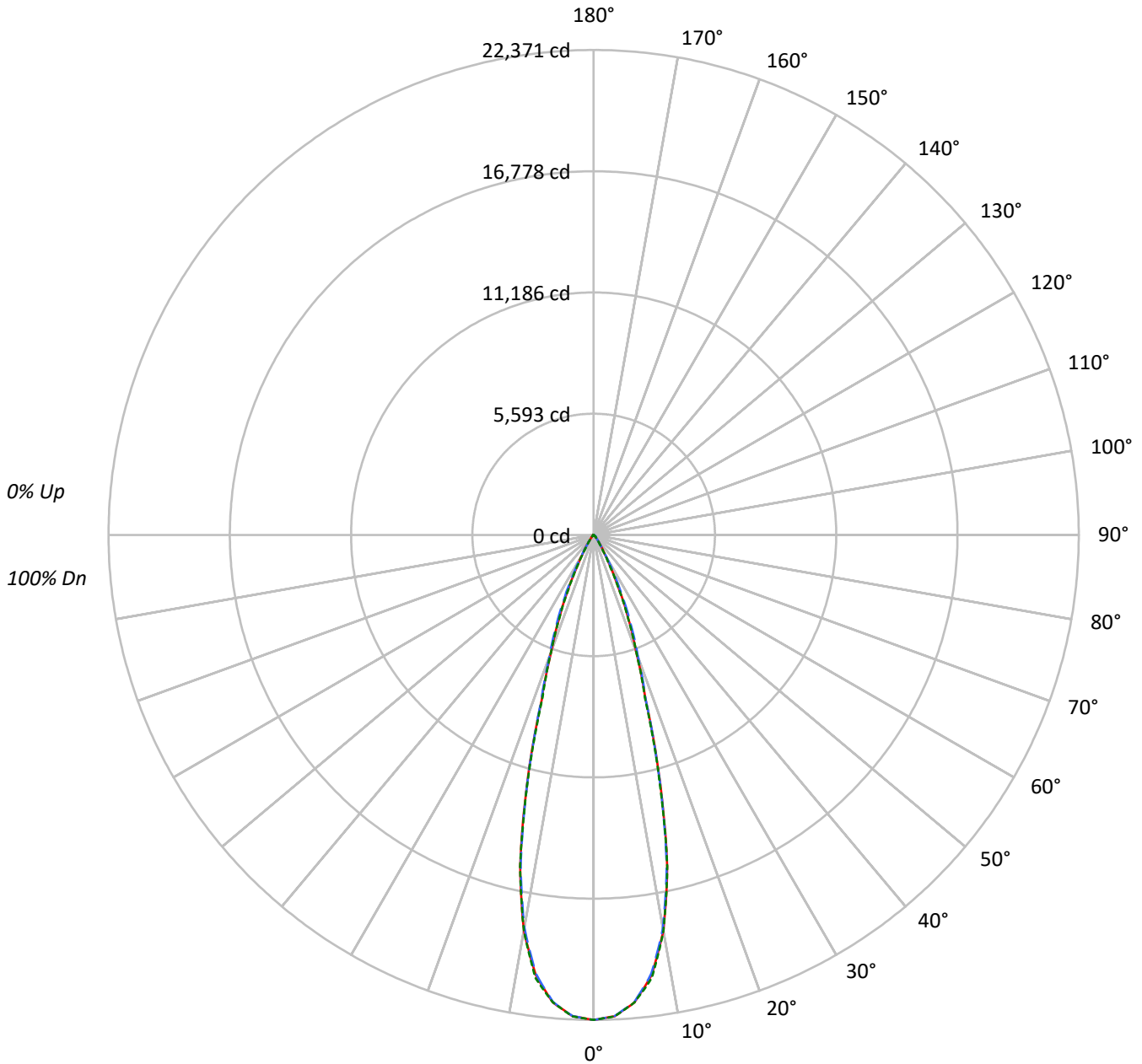
CIE Type: Direct

Input Watts (W): 78.9
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: P771853
CATALOG NUMBER: LD6D80BD010-EU6DR3070959027-6LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P771853

CATALOG NUMBER: LD6D80BD010-EU6DR3070959027-6LBSQW1B

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	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°	1712337	1712337	1712337
5°	1663180	1661236	1663264
10°	1440564	1430405	1440222
15°	939892	934844	930145
20°	467369	484898	466742
25°	235430	265480	230599
30°	94262	102703	82127
35°	43722	41871	35097
40°	18875	20963	17776
45°	13315	16530	13434
50°	4573	12027	4835
55°	2642	4978	2789
60°	1852	2189	1852
65°	1195	1195	1195
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16530 cd/sqm



TEST NUMBER: P771853

CATALOG NUMBER: LD6D80BD010-EU6DR3070959027-6LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1967.2	28.3
10°-20°	3168.1	45.5
20°-30°	1369.0	19.7
30°-40°	312.0	4.5
40°-50°	107.1	1.5
50°-60°	26.2	0.4
60°-70°	6.8	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°	6504.3	93.5
0°-40°	6816.4	98.0
0°-60°	6949.7	99.9
0°-90°	6957.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6957.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22371	22371	22371	22371	22371	
5°	21646	21625	21621	21666	21647	1969
15°	11861	11718	11797	11759	11738	3176
25°	2788	2893	3143	2819	2730	1334
35°	468	478	448	445	376	317
45°	123	153	153	153	124	87
55°	20	21	37	22	21	19
65°	7	7	7	7	7	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P771853

CATALOG NUMBER: LD6D80BD010-EU6DR3070959027-6LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22370.8	22370.8	22370.8	22370.8	22370.8
2.5°	22222.5	22207.1	22215.9	22226.9	22231.3
5°	21645.9	21625.0	21620.6	21665.6	21647.0
7.5°	20482.7	20453.1	20408.0	20510.2	20605.7
10°	18534.3	18501.3	18403.6	18451.9	18529.9
12.5°	15657.8	15551.2	15549.0	15702.8	15681.9
15°	11860.8	11718.1	11797.1	11758.7	11737.8
17.5°	7976.1	7921.1	8026.6	7994.7	7857.4
20°	5737.7	5751.9	5952.9	5851.9	5730.0
22.5°	4186.8	4238.4	4476.8	4216.5	4120.9
25°	2787.6	2893.0	3143.4	2819.4	2730.4
27.5°	1714.5	1762.8	2016.5	1692.5	1644.2
30°	1066.5	1042.3	1162.0	997.3	929.2
32.5°	699.6	668.9	707.3	634.8	579.9
35°	467.9	477.8	448.1	444.8	375.6
37.5°	292.2	336.1	296.5	316.3	241.6
40°	188.9	243.8	209.8	231.7	177.9
42.5°	154.9	187.8	172.4	183.4	158.2
45°	123.0	152.7	152.7	152.7	124.1
47.5°	68.1	102.1	130.7	104.3	72.5
50°	38.4	51.6	101.0	53.8	40.6
52.5°	26.4	29.7	69.2	30.8	27.5
55°	19.8	20.9	37.3	22.0	20.9
57.5°	15.4	16.5	19.8	16.5	15.4
60°	12.1	12.1	14.3	13.2	12.1
62.5°	8.8	8.8	9.9	8.8	8.8
65°	6.6	6.6	6.6	6.6	6.6
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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)