

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: P771840

Luminaire Tested: LD6D80BD010-EU6DR3070959024-6LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771840
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-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

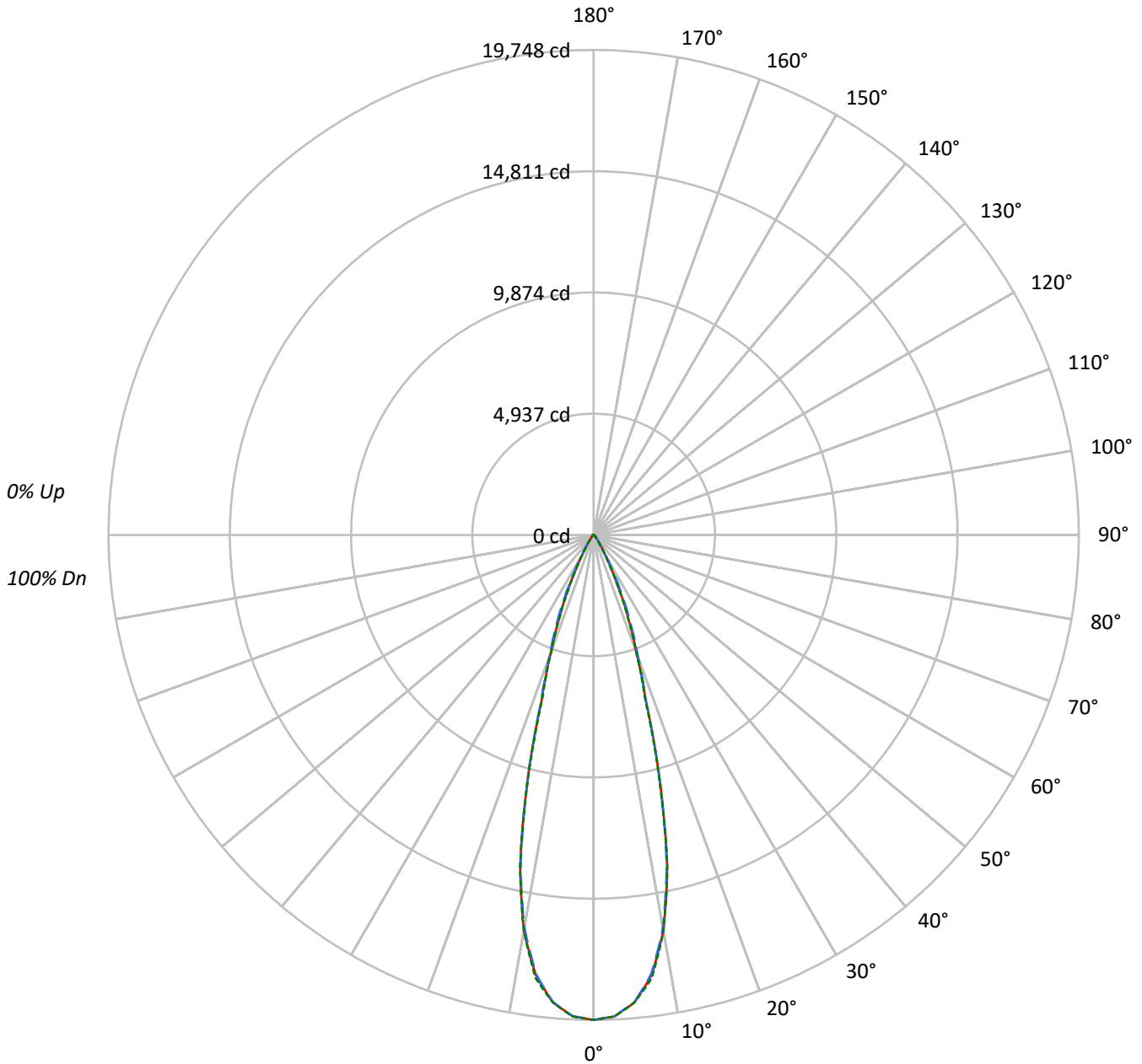
Lumens per Lamp: N/A
Luminaire Lumens: 6141.7 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (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



TEST NUMBER: P771840
CATALOG NUMBER: LD6D80BD010-EU6DR3070959024-6LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P771840

CATALOG NUMBER: LD6D80BD010-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	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°	1511617	1511617	1511617
5°	1468224	1466511	1468301
10°	1271708	1262738	1271405
15°	829728	825266	821122
20°	412582	428066	412028
25°	207830	234366	203573
30°	83214	90665	72502
35°	38592	36966	30985
40°	16667	18505	15697
45°	11756	14592	11864
50°	4037	10622	4275
55°	2335	4404	2455
60°	1638	1929	1638
65°	1050	1050	1050
70°	649	425	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14592 cd/sqm



TEST NUMBER: P771840

CATALOG NUMBER: LD6D80BD010-EU6DR3070959024-6LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1736.6	28.3
10°-20°	2796.8	45.5
20°-30°	1208.6	19.7
30°-40°	275.5	4.5
40°-50°	94.6	1.5
50°-60°	23.1	0.4
60°-70°	6.0	0.1
70°-80°	0.6	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°	5741.9	93.5
0°-40°	6017.4	98.0
0°-60°	6135.1	99.9
0°-90°	6141.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6141.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19748	19748	19748	19748	19748	
5°	19109	19090	19086	19126	19110	1738
15°	10471	10344	10414	10380	10362	2804
25°	2461	2554	2775	2489	2410	1178
35°	413	422	396	393	332	280
45°	109	135	135	135	110	77
55°	18	18	33	19	18	17
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: P771840

CATALOG NUMBER: LD6D80BD010-EU6DR3070959024-6LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19748.5	19748.5	19748.5	19748.5	19748.5
2.5°	19617.6	19604.1	19611.8	19621.5	19625.4
5°	19108.6	19090.2	19086.3	19126.1	19109.6
7.5°	18081.8	18055.6	18015.9	18106.1	18190.4
10°	16361.8	16332.7	16246.4	16289.1	16357.9
12.5°	13822.4	13728.4	13726.4	13862.2	13843.8
15°	10470.6	10344.5	10414.3	10380.4	10362.0
17.5°	7041.1	6992.7	7085.7	7057.6	6936.4
20°	5065.1	5077.7	5255.2	5166.0	5058.3
22.5°	3696.1	3741.6	3952.0	3722.2	3637.9
25°	2460.8	2553.9	2775.0	2488.9	2410.4
27.5°	1513.5	1556.2	1780.2	1494.1	1451.5
30°	941.5	920.1	1025.8	880.4	820.3
32.5°	617.6	590.5	624.4	560.4	511.9
35°	413.0	421.8	395.6	392.7	331.6
37.5°	257.9	296.7	261.8	279.2	213.3
40°	166.8	215.2	185.2	204.6	157.1
42.5°	136.7	165.8	152.2	161.9	139.6
45°	108.6	134.8	134.8	134.8	109.6
47.5°	60.1	90.2	115.4	92.1	64.0
50°	33.9	45.6	89.2	47.5	35.9
52.5°	23.3	26.2	61.1	27.1	24.2
55°	17.5	18.4	33.0	19.4	18.4
57.5°	13.6	14.5	17.5	14.5	13.6
60°	10.7	10.7	12.6	11.6	10.7
62.5°	7.8	7.8	8.7	7.8	7.8
65°	5.8	5.8	5.8	5.8	5.8
67.5°	2.9	3.9	3.9	3.9	3.9
70°	2.9	1.9	1.9	1.9	2.9
72.5°	1.9	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)