

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: P767225

Luminaire Tested: LD6D50D010-EU6DR3040509050-6LBSQW1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P767225  
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: LD6D50D010-EU6DR3040509050-6LBSQW1B  
Description: 6 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4549.6 lumens  
Efficiency: N/A  
Efficacy: 96.8 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

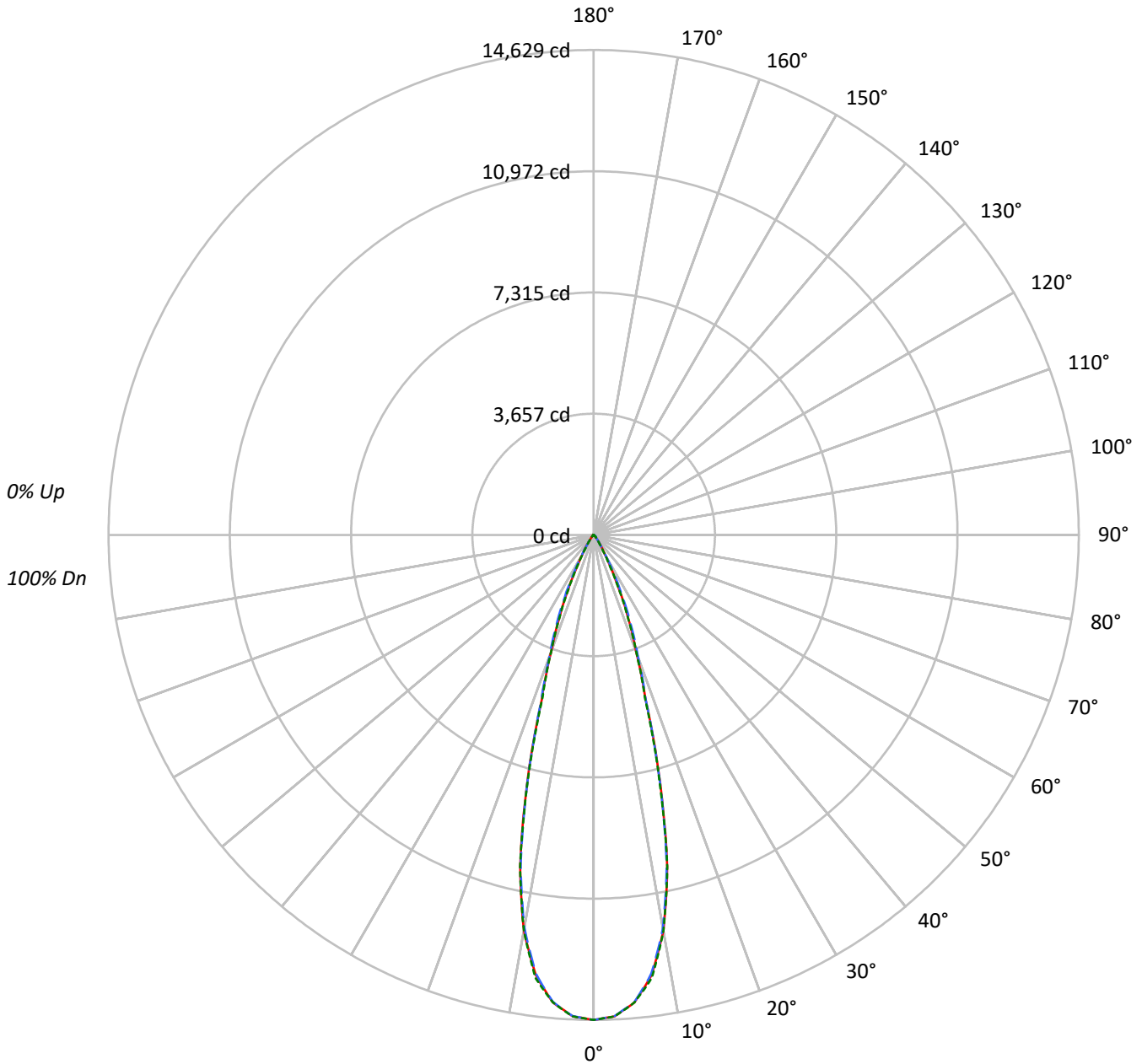
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	1119784	1119784	1119784
5°	1087634	1086366	1087687
10°	942056	935411	941831
15°	614645	611340	608274
20°	305630	317099	305223
25°	153955	173608	150805
30°	61639	67164	53703
35°	28593	27379	22949
40°	12340	13709	11631
45°	8703	10803	8790
50°	2989	7871	3168
55°	1721	3256	1815
60°	1209	1424	1209
65°	779	779	779
70°	492	313	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10803 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1286.4	28.3
10°-20°	2071.8	45.5
20°-30°	895.3	19.7
30°-40°	204.1	4.5
40°-50°	70.1	1.5
50°-60°	17.1	0.4
60°-70°	4.4	0.1
70°-80°	0.5	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°	4253.5	93.5
0°-40°	4457.6	98.0
0°-60°	4544.7	99.9
0°-90°	4549.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4549.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14629	14629	14629	14629	14629	
5°	14155	14142	14139	14168	14156	1287
15°	7756	7663	7715	7690	7676	2077
25°	1823	1892	2056	1844	1786	873
35°	306	312	293	291	246	208
45°	80	100	100	100	81	57
55°	13	14	24	14	14	13
65°	4	4	4	4	4	4
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°	14629.4	14629.4	14629.4	14629.4	14629.4
2.5°	14532.4	14522.3	14528.1	14535.3	14538.1
5°	14155.3	14141.7	14138.8	14168.2	14156.0
7.5°	13394.7	13375.3	13345.8	13412.6	13475.1
10°	12120.5	12099.0	12035.0	12066.6	12117.6
12.5°	10239.4	10169.7	10168.3	10268.8	10255.2
15°	7756.4	7663.0	7714.7	7689.6	7676.0
17.5°	5215.9	5180.0	5249.0	5228.2	5138.4
20°	3752.1	3761.5	3892.9	3826.8	3747.1
22.5°	2738.0	2771.7	2927.6	2757.4	2694.9
25°	1822.9	1891.9	2055.6	1843.8	1785.6
27.5°	1121.2	1152.8	1318.7	1106.8	1075.2
30°	697.4	681.6	759.9	652.2	607.6
32.5°	457.5	437.4	462.6	415.1	379.2
35°	306.0	312.4	293.0	290.9	245.6
37.5°	191.1	219.8	193.9	206.9	158.0
40°	123.5	159.5	137.2	151.6	116.4
42.5°	101.3	122.8	112.8	119.9	103.4
45°	80.4	99.8	99.8	99.8	81.2
47.5°	44.5	66.8	85.5	68.2	47.4
50°	25.1	33.8	66.1	35.2	26.6
52.5°	17.2	19.4	45.2	20.1	18.0
55°	12.9	13.6	24.4	14.4	13.6
57.5°	10.1	10.8	12.9	10.8	10.1
60°	7.9	7.9	9.3	8.6	7.9
62.5°	5.7	5.7	6.5	5.7	5.7
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.4	1.4	1.4	2.2
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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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