

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: P767189

Luminaire Tested: LD6D50D010-EU6DR3040509035-6LBCSSQMMS

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P767189  
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-EU6DR3040509035-6LBCSSQMMS  
Description: 6 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5189.7 lumens  
Efficiency: N/A  
Efficacy: 110.4 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

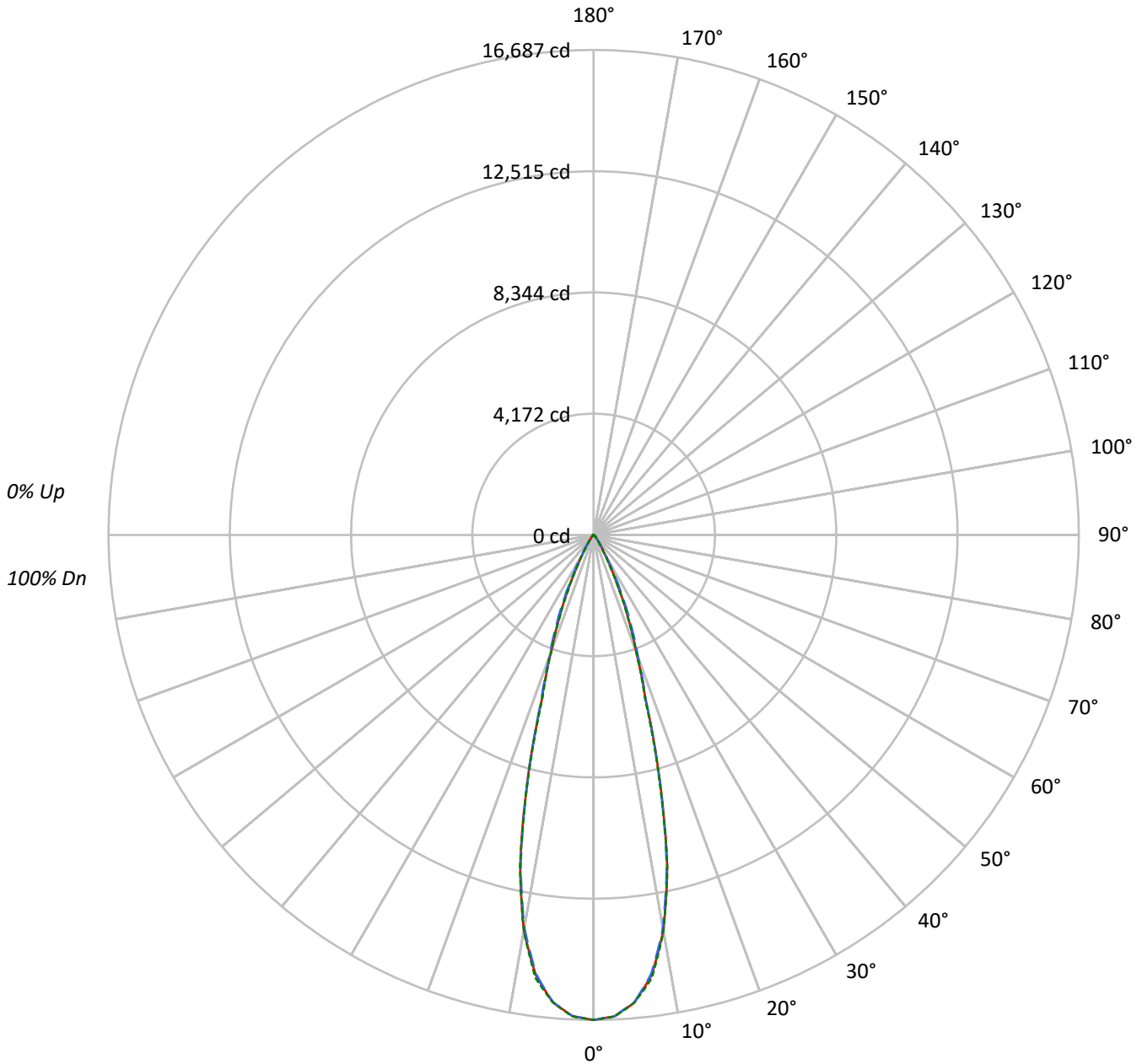
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	1277310	1277310	1277310
5°	1240644	1239192	1240706
10°	1074584	1067006	1074327
15°	701115	697343	693841
20°	348631	361713	348166
25°	175618	198033	172021
30°	70310	76612	61259
35°	32611	31238	26183
40°	14079	15638	13259
45°	9937	12330	10024
50°	3418	8979	3608
55°	1962	3723	2082
60°	1378	1638	1378
65°	887	887	887
70°	559	358	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12330 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1467.4	28.3
10°-20°	2363.3	45.5
20°-30°	1021.2	19.7
30°-40°	232.8	4.5
40°-50°	79.9	1.5
50°-60°	19.5	0.4
60°-70°	5.1	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°	4851.9	93.5
0°-40°	5084.7	98.0
0°-60°	5184.1	99.9
0°-90°	5189.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5189.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16687	16687	16687	16687	16687	
5°	16147	16131	16128	16161	16148	1469
15°	8848	8741	8800	8771	8756	2369
25°	2079	2158	2345	2103	2037	995
35°	349	356	334	332	280	237
45°	92	114	114	114	93	65
55°	15	16	28	16	16	14
65°	5	5	5	5	5	5
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°	16687.4	16687.4	16687.4	16687.4	16687.4
2.5°	16576.8	16565.3	16571.9	16580.1	16583.3
5°	16146.7	16131.1	16127.8	16161.4	16147.5
7.5°	15279.0	15256.9	15223.3	15299.5	15370.8
10°	13825.6	13801.0	13728.1	13764.1	13822.3
12.5°	11679.9	11600.4	11598.8	11713.5	11697.9
15°	8847.6	8741.1	8800.0	8771.4	8755.8
17.5°	5949.7	5908.8	5987.4	5963.6	5861.2
20°	4280.0	4290.6	4440.6	4365.2	4274.3
22.5°	3123.2	3161.7	3339.4	3145.3	3074.0
25°	2079.4	2158.0	2344.8	2103.1	2036.8
27.5°	1278.9	1315.0	1504.2	1262.5	1226.5
30°	795.5	777.5	866.8	743.9	693.1
32.5°	521.9	499.0	527.6	473.6	432.6
35°	349.0	356.4	334.3	331.8	280.2
37.5°	217.9	250.7	221.2	236.0	180.2
40°	140.9	181.9	156.5	172.9	132.7
42.5°	115.5	140.1	128.6	136.8	118.0
45°	91.8	113.9	113.9	113.9	92.6
47.5°	50.8	76.2	97.5	77.8	54.1
50°	28.7	38.5	75.4	40.1	30.3
52.5°	19.7	22.1	51.6	22.9	20.5
55°	14.7	15.6	27.9	16.4	15.6
57.5°	11.5	12.3	14.7	12.3	11.5
60°	9.0	9.0	10.7	9.8	9.0
62.5°	6.6	6.6	7.4	6.6	6.6
65°	4.9	4.9	4.9	4.9	4.9
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.6	1.6	1.6	2.5
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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