

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: P767214

Luminaire Tested: LD6D50D010-EU6DR3040509050-6LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P767214  
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-EU6DR3040509050-6LBCSSQMB  
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5471.2 lumens  
Efficiency: N/A  
Efficacy: 116.4 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

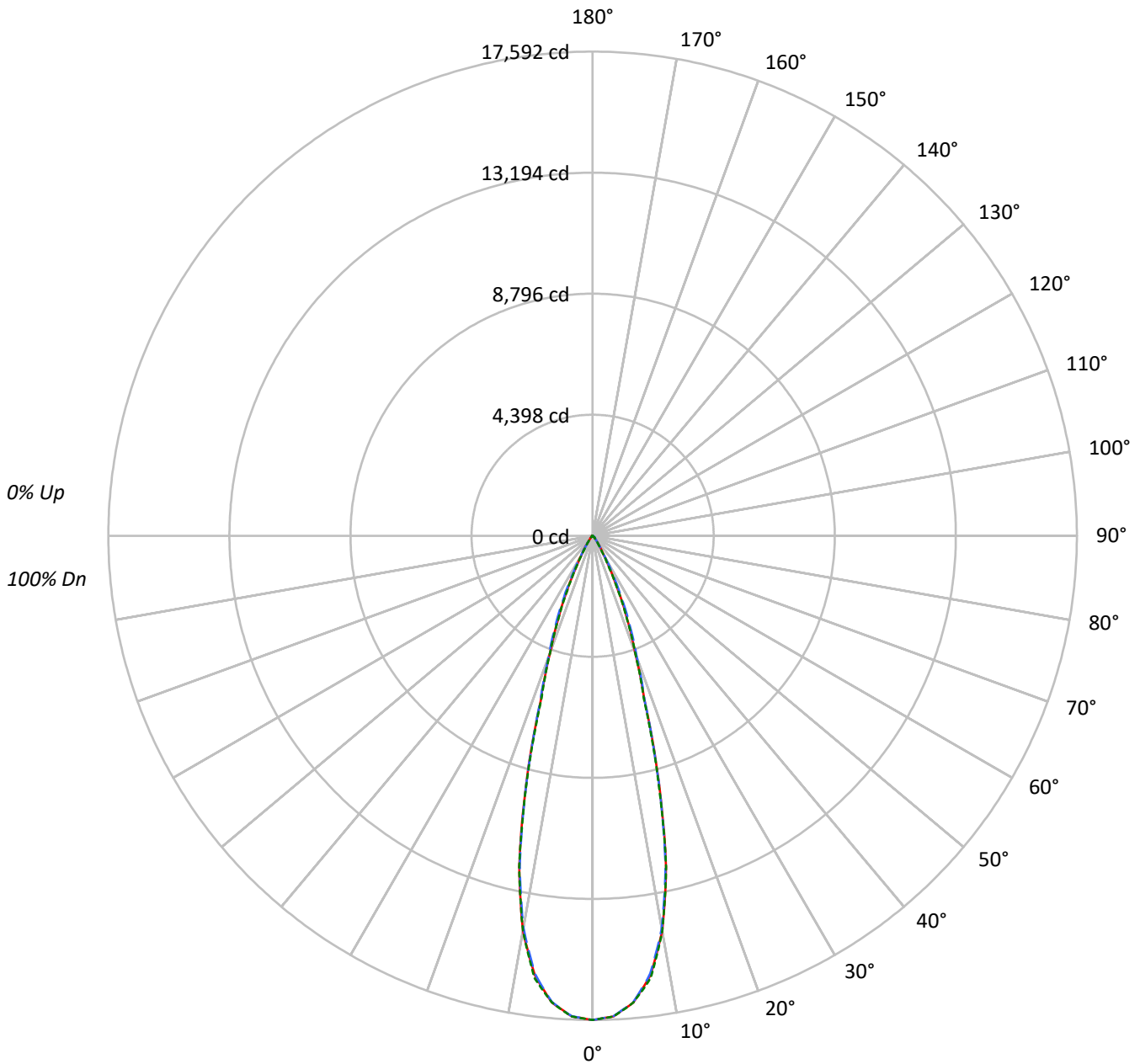
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1346574	1346574	1346574
5°	1307922	1306393	1307983
10°	1132854	1124871	1132589
15°	739136	735166	731466
20°	367537	381327	367040
25°	185137	208776	181345
30°	74128	80766	64583
35°	34377	32929	27603
40°	14848	16487	13979
45°	10468	13001	10565
50°	3596	9467	3811
55°	2068	3923	2189
60°	1454	1715	1454
65°	942	942	942
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 13001 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1547.0	28.3
10°-20°	2491.4	45.5
20°-30°	1076.6	19.7
30°-40°	245.4	4.5
40°-50°	84.3	1.5
50°-60°	20.6	0.4
60°-70°	5.3	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°	5115.0	93.5
0°-40°	5360.4	98.0
0°-60°	5465.2	99.9
0°-90°	5471.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5471.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17592	17592	17592	17592	17592	
5°	17022	17006	17002	17038	17023	1548
15°	9327	9215	9277	9247	9231	2498
25°	2192	2275	2472	2217	2147	1049
35°	368	376	352	350	295	250
45°	97	120	120	120	98	69
55°	16	16	29	17	16	15
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°	17592.3	17592.3	17592.3	17592.3	17592.3
2.5°	17475.7	17463.6	17470.5	17479.2	17482.6
5°	17022.3	17005.9	17002.4	17037.8	17023.1
7.5°	16107.6	16084.3	16048.9	16129.2	16204.3
10°	14575.3	14549.4	14472.6	14510.6	14571.9
12.5°	12313.2	12229.5	12227.7	12348.7	12332.2
15°	9327.4	9215.1	9277.3	9247.0	9230.6
17.5°	6272.4	6229.2	6312.1	6287.0	6179.1
20°	4512.1	4523.3	4681.4	4601.9	4506.0
22.5°	3292.5	3333.1	3520.5	3315.8	3240.7
25°	2192.1	2275.0	2472.0	2217.2	2147.2
27.5°	1348.3	1386.3	1585.8	1331.0	1293.0
30°	838.7	819.7	913.8	784.3	730.7
32.5°	550.2	526.0	556.2	499.2	456.0
35°	367.9	375.7	352.4	349.8	295.4
37.5°	229.8	264.3	233.2	248.8	190.0
40°	148.6	191.7	165.0	182.2	139.9
42.5°	121.8	147.7	135.6	144.2	124.4
45°	96.7	120.1	120.1	120.1	97.6
47.5°	53.6	80.3	102.8	82.1	57.0
50°	30.2	40.6	79.5	42.3	32.0
52.5°	20.7	23.3	54.4	24.2	21.6
55°	15.5	16.4	29.4	17.3	16.4
57.5°	12.1	13.0	15.5	13.0	12.1
60°	9.5	9.5	11.2	10.4	9.5
62.5°	6.9	6.9	7.8	6.9	6.9
65°	5.2	5.2	5.2	5.2	5.2
67.5°	2.6	3.5	3.5	3.5	3.5
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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