

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: P766396

Luminaire Tested: LD6D45BD010-EU6DR3040509030-6LBCSSQMMS

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766396  
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: LD6D45BD010-EU6DR3040509030-6LBCSSQMMMS  
Description: 6 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

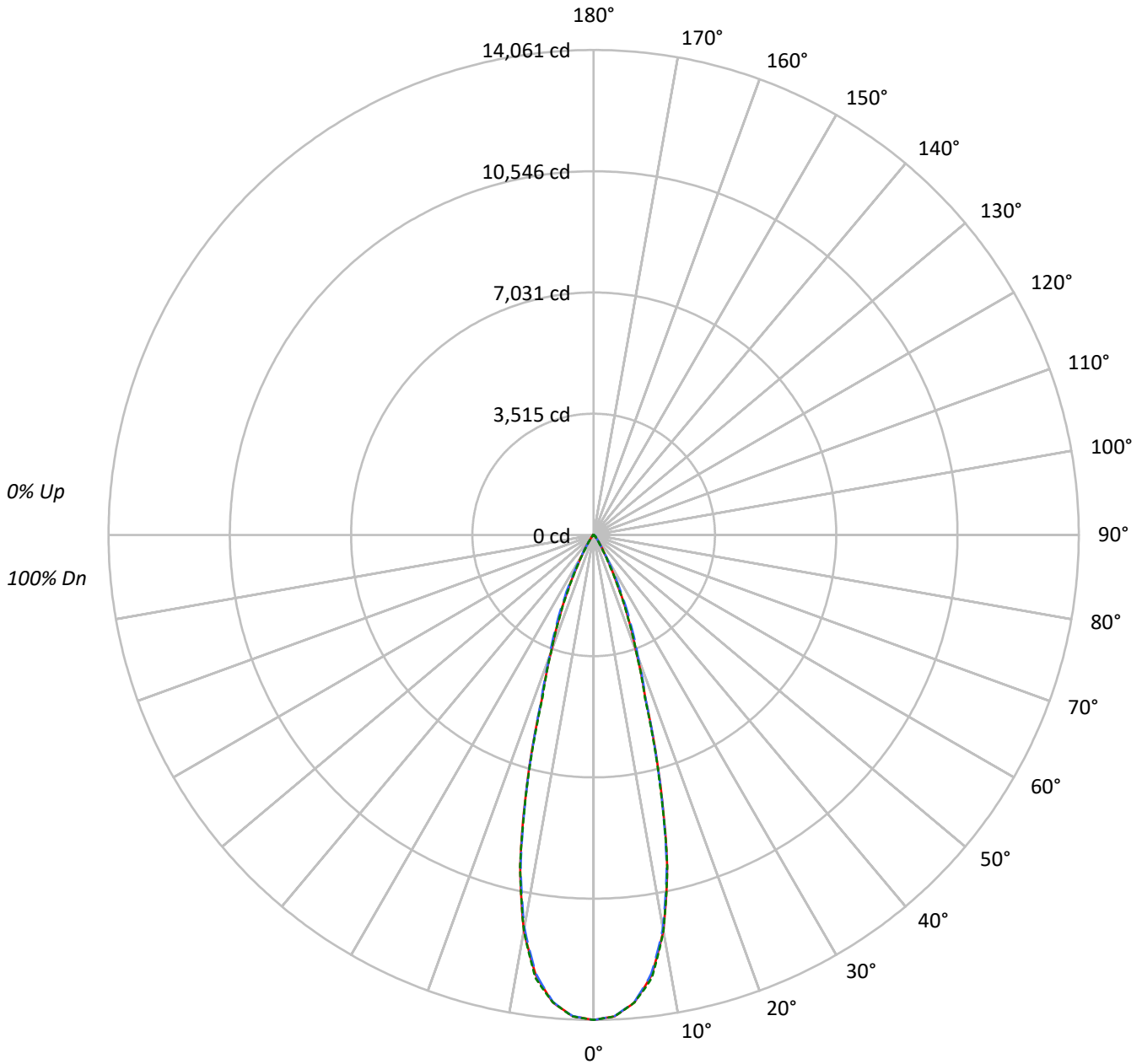
Lumens per Lamp: N/A  
Luminaire Lumens: 4372.9 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.7  
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°	1076284	1076284	1076284
5°	1045389	1044168	1045435
10°	905464	899075	905246
15°	590769	587599	584643
20°	293762	304783	293371
25°	147976	166869	144944
30°	59244	64556	51617
35°	27481	26323	22062
40°	11861	13179	11171
45°	8368	10392	8443
50°	2882	7562	3037
55°	1655	3136	1748
60°	1163	1378	1163
65°	743	743	743
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10392 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1236.5	28.3
10°-20°	1991.3	45.5
20°-30°	860.5	19.7
30°-40°	196.1	4.5
40°-50°	67.4	1.5
50°-60°	16.5	0.4
60°-70°	4.3	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°	4088.3	93.5
0°-40°	4284.4	98.0
0°-60°	4368.2	99.9
0°-90°	4372.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4372.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14061	14061	14061	14061	14061	
5°	13606	13592	13590	13618	13606	1237
15°	7455	7365	7415	7391	7378	1996
25°	1752	1818	1976	1772	1716	839
35°	294	300	282	280	236	199
45°	77	96	96	96	78	55
55°	12	13	24	14	13	12
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14061.1	14061.1	14061.1	14061.1	14061.1
2.5°	13967.9	13958.2	13963.8	13970.7	13973.4
5°	13605.5	13592.3	13589.6	13617.9	13606.1
7.5°	12874.4	12855.7	12827.4	12891.6	12951.7
10°	11649.7	11629.0	11567.5	11597.9	11646.9
12.5°	9841.7	9774.7	9773.3	9870.0	9856.8
15°	7455.1	7365.4	7415.1	7390.9	7377.8
17.5°	5013.3	4978.8	5045.1	5025.1	4938.8
20°	3606.4	3615.4	3741.7	3678.2	3601.6
22.5°	2631.6	2664.1	2813.9	2650.3	2590.2
25°	1752.1	1818.4	1975.8	1772.1	1716.2
27.5°	1077.6	1108.0	1267.5	1063.8	1033.5
30°	670.3	655.1	730.4	626.8	584.0
32.5°	439.8	420.4	444.6	399.0	364.5
35°	294.1	300.3	281.7	279.6	236.1
37.5°	183.6	211.2	186.4	198.8	151.9
40°	118.7	153.3	131.9	145.7	111.8
42.5°	97.3	118.1	108.4	115.3	99.4
45°	77.3	96.0	96.0	96.0	78.0
47.5°	42.8	64.2	82.2	65.6	45.6
50°	24.2	32.4	63.5	33.8	25.5
52.5°	16.6	18.6	43.5	19.3	17.3
55°	12.4	13.1	23.5	13.8	13.1
57.5°	9.7	10.4	12.4	10.4	9.7
60°	7.6	7.6	9.0	8.3	7.6
62.5°	5.5	5.5	6.2	5.5	5.5
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.1	2.8	2.8	2.8	2.8
70°	2.1	1.4	1.4	1.4	2.1
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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