

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: P766407

Luminaire Tested: LD6D45BD010-EU6DR3040509030-6LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766407  
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-EU6DR3040509030-6LBSQW1MW  
Description: 6 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4026.0 lumens  
Efficiency: N/A  
Efficacy: 104.0 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')

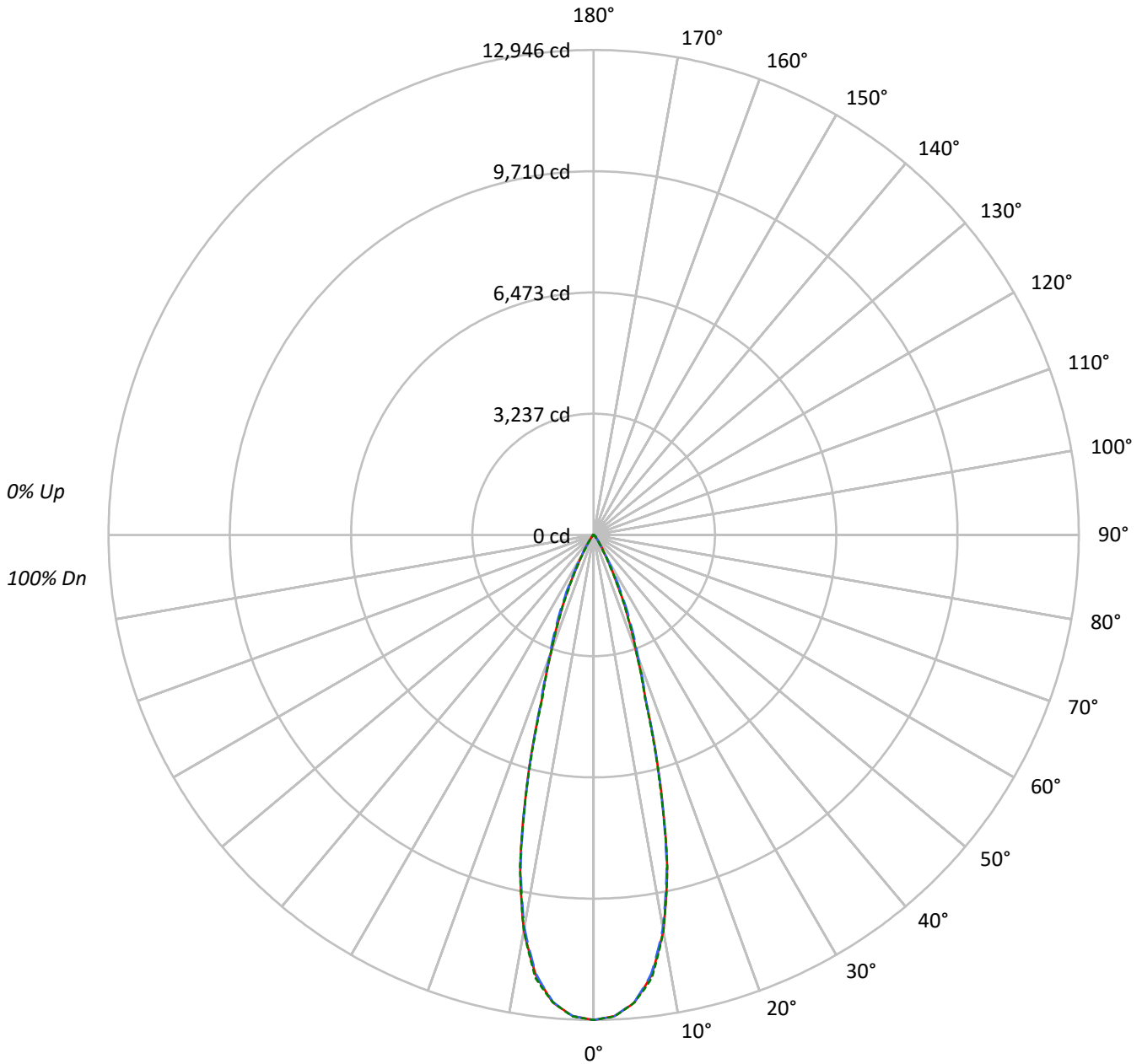
CIE Type: Direct

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°	990900	990900	990900
5°	962453	961331	962499
10°	833631	827755	833429
15°	543904	540980	538262
20°	270458	280607	270091
25°	136236	153626	133449
30°	54551	59430	47524
35°	25304	24230	20314
40°	10921	12130	10292
45°	7707	9558	7772
50°	2644	6966	2798
55°	1521	2883	1615
60°	1072	1271	1072
65°	688	688	688
70°	425	291	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 9558 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1138.4	28.3
10°-20°	1833.4	45.5
20°-30°	792.2	19.7
30°-40°	180.6	4.5
40°-50°	62.0	1.5
50°-60°	15.1	0.4
60°-70°	3.9	0.1
70°-80°	0.4	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°	3764.0	93.5
0°-40°	3944.5	98.0
0°-60°	4021.7	99.9
0°-90°	4026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4026.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12946	12946	12946	12946	12946	
5°	12526	12514	12512	12538	12527	1139
15°	6864	6781	6827	6805	6792	1838
25°	1613	1674	1819	1632	1580	772
35°	271	276	259	257	217	184
45°	71	88	88	88	72	51
55°	11	12	22	13	12	11
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°	12945.6	12945.6	12945.6	12945.6	12945.6
2.5°	12859.8	12850.9	12856.0	12862.3	12864.9
5°	12526.1	12514.0	12511.5	12537.5	12526.7
7.5°	11853.0	11835.9	11809.8	11868.9	11924.2
10°	10725.5	10706.4	10649.9	10677.8	10722.9
12.5°	9060.9	8999.2	8998.0	9087.0	9074.9
15°	6863.7	6781.1	6826.8	6804.6	6792.5
17.5°	4615.6	4583.8	4644.9	4626.4	4547.0
20°	3320.3	3328.6	3444.9	3386.4	3315.8
22.5°	2422.8	2452.7	2590.6	2440.0	2384.7
25°	1613.1	1674.1	1819.0	1631.5	1580.1
27.5°	992.1	1020.1	1166.9	979.4	951.5
30°	617.2	603.2	672.4	577.1	537.7
32.5°	404.9	387.1	409.3	367.4	335.6
35°	270.8	276.5	259.3	257.4	217.4
37.5°	169.1	194.5	171.6	183.0	139.8
40°	109.3	141.1	121.4	134.1	103.0
42.5°	89.6	108.7	99.8	106.1	91.5
45°	71.2	88.3	88.3	88.3	71.8
47.5°	39.4	59.1	75.6	60.4	41.9
50°	22.2	29.9	58.5	31.1	23.5
52.5°	15.3	17.2	40.0	17.8	15.9
55°	11.4	12.1	21.6	12.7	12.1
57.5°	8.9	9.5	11.4	9.5	8.9
60°	7.0	7.0	8.3	7.6	7.0
62.5°	5.1	5.1	5.7	5.1	5.1
65°	3.8	3.8	3.8	3.8	3.8
67.5°	1.9	2.5	2.5	2.5	2.5
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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