

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: P766371

Luminaire Tested: LD6D45BD010-EU6DR3040509024-6LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766371  
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-EU6DR3040509024-6LBCSSQMW  
Description: 6 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

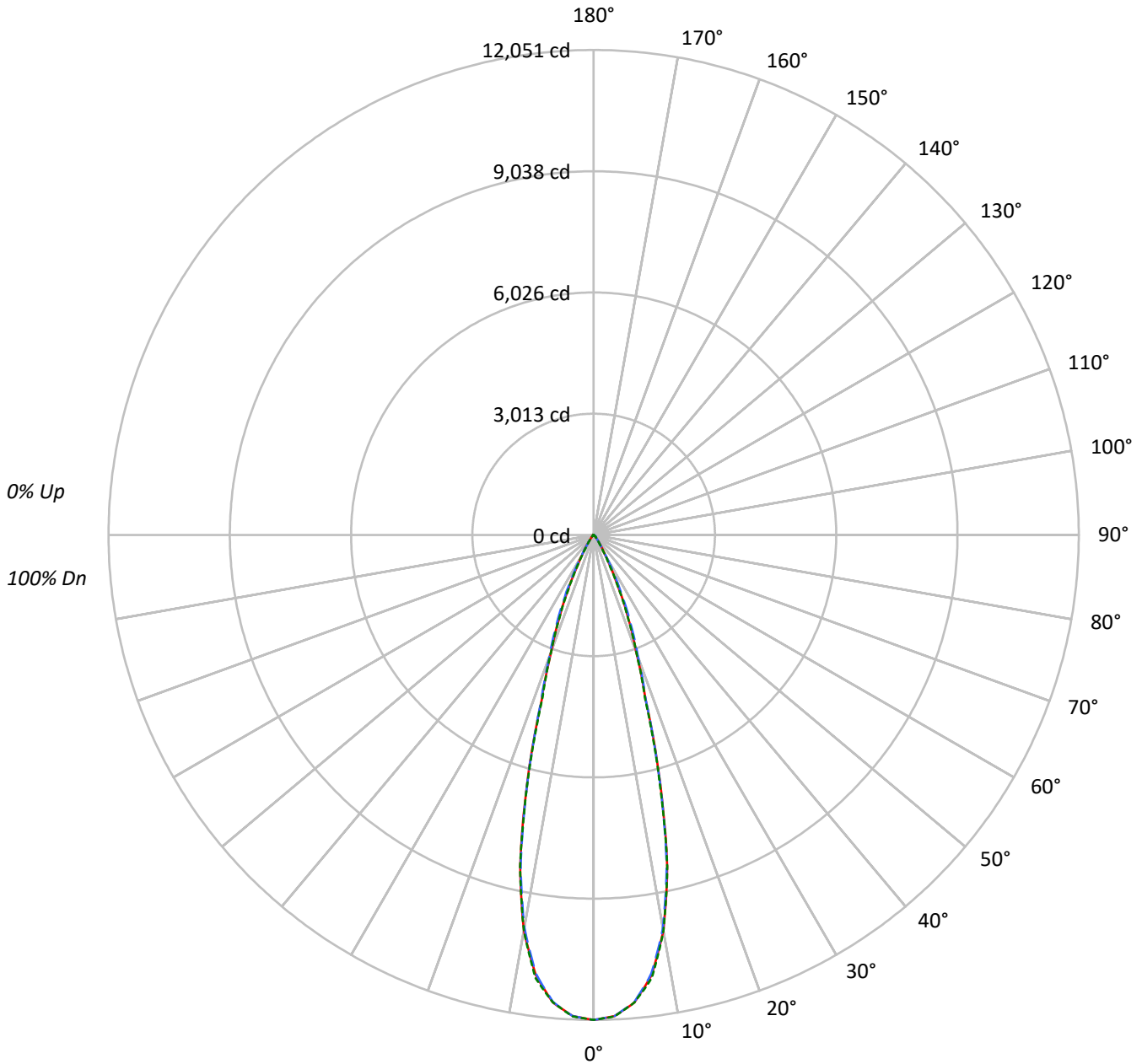
Lumens per Lamp: N/A  
Luminaire Lumens: 3747.7 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 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					70					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°	922402	922402	922402
5°	895921	894876	895967
10°	776006	770534	775820
15°	506303	503585	501049
20°	251764	261204	251421
25°	126820	143010	124218
30°	50777	55329	44237
35°	23547	22557	18903
40°	10172	11291	9572
45°	7177	8898	7242
50°	2465	6478	2608
55°	1415	2682	1495
60°	995	1179	995
65°	634	634	634
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 8898 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1059.7	28.3
10°-20°	1706.6	45.5
20°-30°	737.5	19.7
30°-40°	168.1	4.5
40°-50°	57.7	1.5
50°-60°	14.1	0.4
60°-70°	3.6	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°	3503.8	93.5
0°-40°	3671.9	98.0
0°-60°	3743.7	99.9
0°-90°	3747.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3747.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12051	12051	12051	12051	12051	
5°	11660	11649	11647	11671	11661	1061
15°	6389	6312	6355	6334	6323	1711
25°	1502	1558	1693	1519	1471	719
35°	252	257	241	240	202	171
45°	66	82	82	82	67	47
55°	11	11	20	12	11	10
65°	4	4	4	4	4	3
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°	12050.7	12050.7	12050.7	12050.7	12050.7
2.5°	11970.8	11962.5	11967.3	11973.2	11975.6
5°	11660.2	11649.0	11646.6	11670.9	11660.8
7.5°	11033.6	11017.7	10993.4	11048.4	11099.9
10°	9984.1	9966.3	9913.7	9939.7	9981.7
12.5°	8434.5	8377.1	8376.0	8458.8	8447.6
15°	6389.2	6312.3	6354.9	6334.2	6322.9
17.5°	4296.5	4267.0	4323.8	4306.6	4232.7
20°	3090.8	3098.5	3206.7	3152.3	3086.6
22.5°	2255.4	2283.2	2411.6	2271.3	2219.9
25°	1501.6	1558.4	1693.3	1518.8	1470.8
27.5°	923.6	949.6	1086.3	911.7	885.7
30°	574.5	561.5	626.0	537.2	500.5
32.5°	376.9	360.3	381.0	342.0	312.4
35°	252.0	257.4	241.4	239.6	202.3
37.5°	157.4	181.0	159.7	170.4	130.2
40°	101.8	131.3	113.0	124.8	95.8
42.5°	83.4	101.2	92.9	98.8	85.2
45°	66.3	82.2	82.2	82.2	66.9
47.5°	36.7	55.0	70.4	56.2	39.0
50°	20.7	27.8	54.4	29.0	21.9
52.5°	14.2	16.0	37.3	16.6	14.8
55°	10.6	11.2	20.1	11.8	11.2
57.5°	8.3	8.9	10.6	8.9	8.3
60°	6.5	6.5	7.7	7.1	6.5
62.5°	4.7	4.7	5.3	4.7	4.7
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	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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