

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: P766408

Luminaire Tested: LD6D45BD010-EU6DR3040509035-6LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766408  
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-EU6DR3040509035-6LBCSSQMB  
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4419.0 lumens  
Efficiency: N/A  
Efficacy: 114.2 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

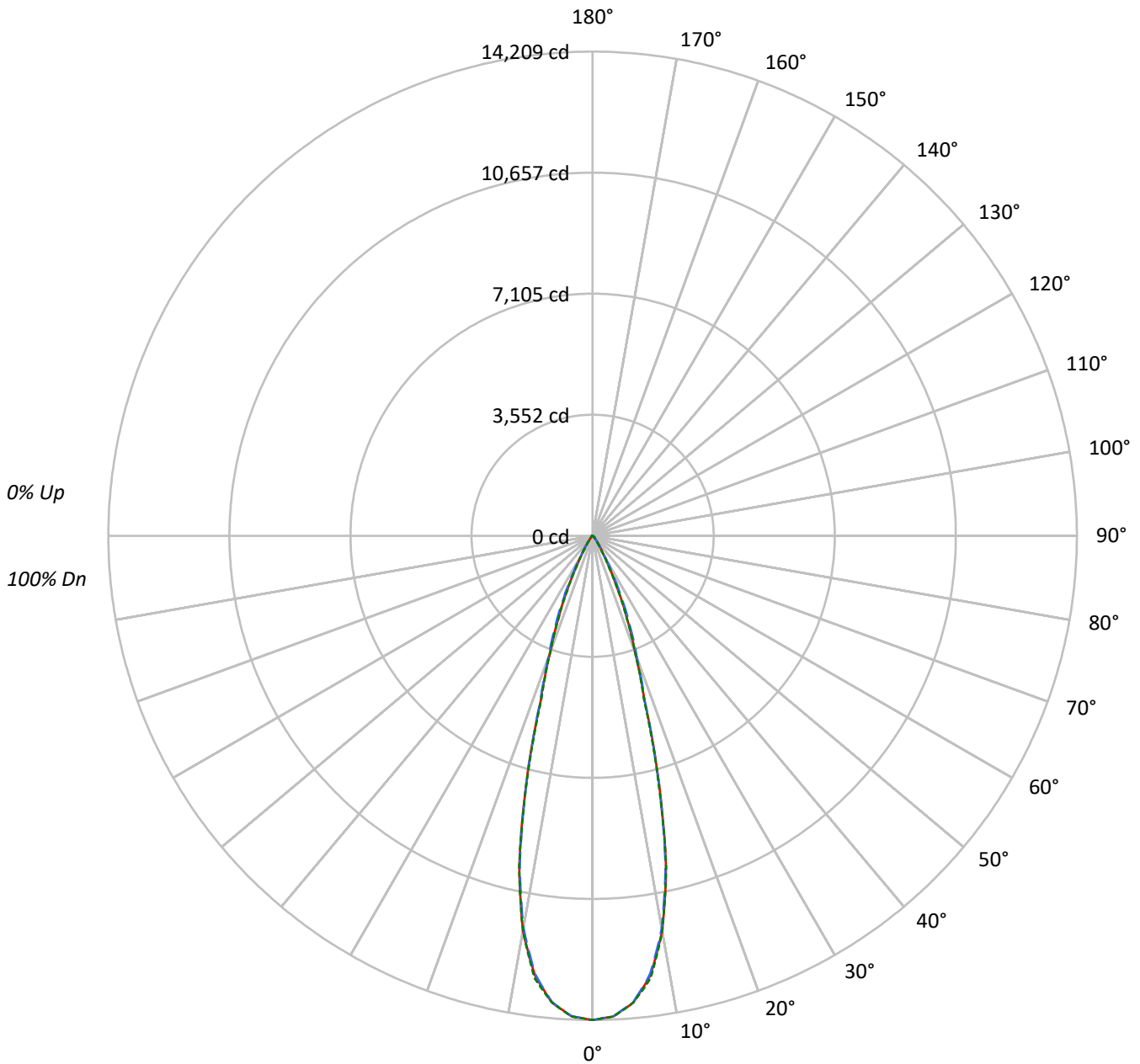
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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
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°	1087620	1087620	1087620
5°	1056400	1055163	1056454
10°	915000	908549	914783
15°	596989	593788	590800
20°	296857	307992	296458
25°	149538	168625	146473
30°	59872	65237	52165
35°	27771	26594	22295
40°	11990	13309	11291
45°	8454	10500	8530
50°	2906	7645	3072
55°	1681	3163	1775
60°	1179	1393	1179
65°	761	761	761
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: 10500 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1249.5	28.3
10°-20°	2012.3	45.5
20°-30°	869.6	19.7
30°-40°	198.2	4.5
40°-50°	68.1	1.5
50°-60°	16.6	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°	4131.4	93.5
0°-40°	4329.6	98.0
0°-60°	4414.2	99.9
0°-90°	4419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4419.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14209	14209	14209	14209	14209	
5°	13749	13736	13733	13761	13750	1251
15°	7534	7443	7493	7469	7456	2017
25°	1771	1838	1997	1791	1734	848
35°	297	304	285	282	239	202
45°	78	97	97	97	79	55
55°	13	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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14209.2	14209.2	14209.2	14209.2	14209.2
2.5°	14115.0	14105.3	14110.8	14117.8	14120.6
5°	13748.8	13735.5	13732.7	13761.3	13749.5
7.5°	13010.0	12991.2	12962.5	13027.4	13088.1
10°	11772.4	11751.5	11689.4	11720.1	11769.6
12.5°	9945.3	9877.7	9876.3	9973.9	9960.7
15°	7533.6	7442.9	7493.2	7468.8	7455.5
17.5°	5066.1	5031.3	5098.2	5078.0	4990.8
20°	3644.4	3653.5	3781.1	3716.9	3639.5
22.5°	2659.3	2692.1	2843.5	2678.2	2617.5
25°	1770.6	1837.5	1996.6	1790.8	1734.3
27.5°	1089.0	1119.7	1280.8	1075.0	1044.3
30°	677.4	662.0	738.1	633.4	590.2
32.5°	444.4	424.9	449.3	403.2	368.3
35°	297.2	303.5	284.6	282.5	238.6
37.5°	185.6	213.5	188.4	200.9	153.5
40°	120.0	154.9	133.2	147.2	113.0
42.5°	98.4	119.3	109.5	116.5	100.5
45°	78.1	97.0	97.0	97.0	78.8
47.5°	43.3	64.9	83.0	66.3	46.0
50°	24.4	32.8	64.2	34.2	25.8
52.5°	16.7	18.8	44.0	19.5	17.4
55°	12.6	13.3	23.7	14.0	13.3
57.5°	9.8	10.5	12.6	10.5	9.8
60°	7.7	7.7	9.1	8.4	7.7
62.5°	5.6	5.6	6.3	5.6	5.6
65°	4.2	4.2	4.2	4.2	4.2
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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