

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: P766446

Luminaire Tested: LD6D45BD010-EU6DR3040509050-6LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766446  
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-EU6DR3040509050-6LBSQW1MW  
Description: 6 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

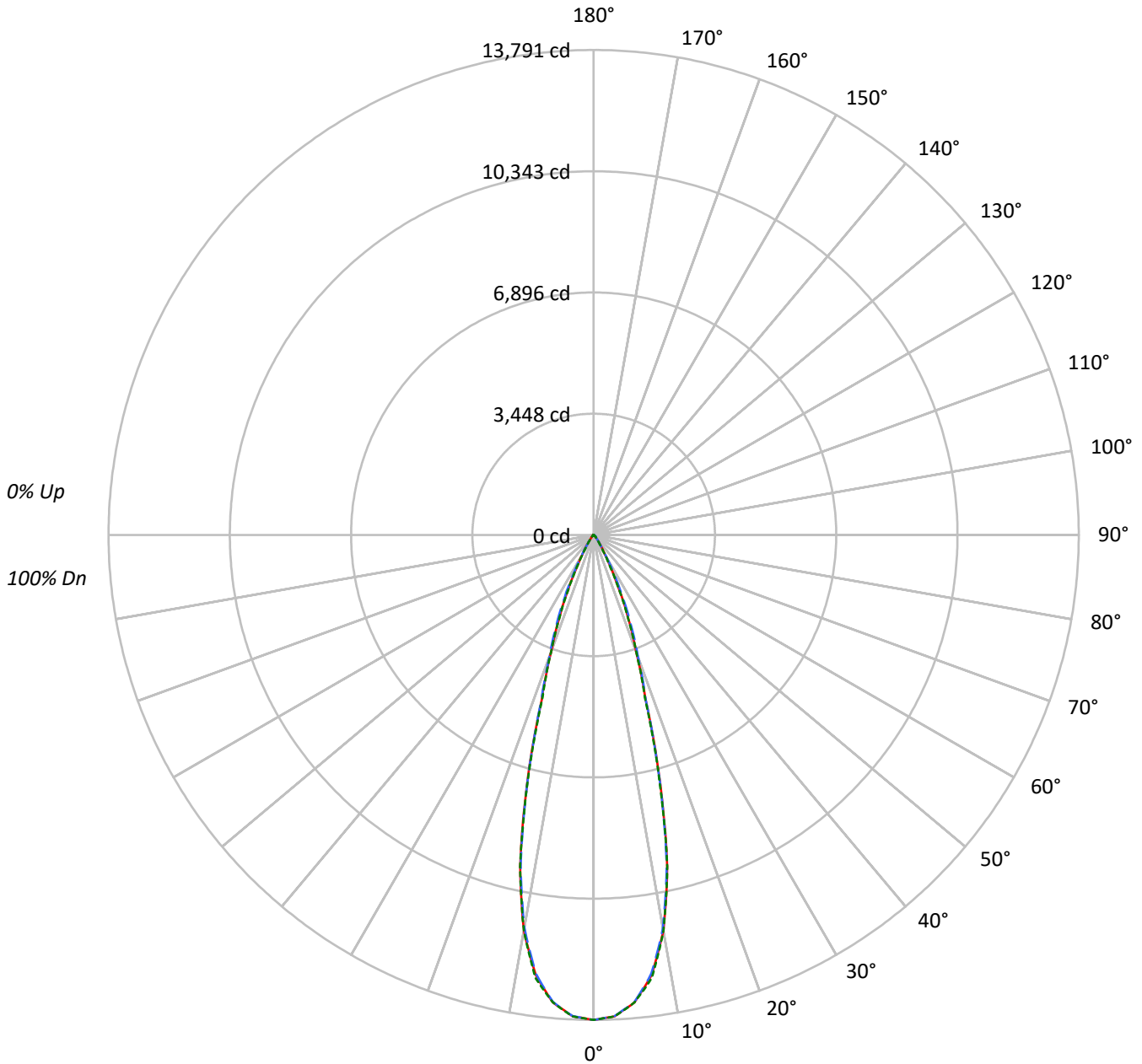
Lumens per Lamp: N/A  
Luminaire Lumens: 4289.1 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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									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°	1055641	1055641	1055641
5°	1025335	1024136	1025389
10°	888092	881828	887882
15°	579437	576323	573430
20°	288125	298935	287743
25°	145138	163668	142165
30°	58113	63319	50627
35°	26949	25818	21641
40°	11641	12920	10961
45°	8205	10186	8281
50°	2822	7419	2989
55°	1628	3069	1721
60°	1133	1347	1133
65°	743	743	743
70°	448	313	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10186 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1212.7	28.3
10°-20°	1953.1	45.5
20°-30°	844.0	19.7
30°-40°	192.4	4.5
40°-50°	66.1	1.5
50°-60°	16.1	0.4
60°-70°	4.2	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°	4009.9	93.5
0°-40°	4202.2	98.0
0°-60°	4284.4	99.9
0°-90°	4289.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4289.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13791	13791	13791	13791	13791	
5°	13344	13332	13329	13357	13345	1214
15°	7312	7224	7273	7249	7236	1958
25°	1718	1784	1938	1738	1683	823
35°	288	294	276	274	232	196
45°	76	94	94	94	76	54
55°	12	13	23	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°	13791.4	13791.4	13791.4	13791.4	13791.4
2.5°	13700.0	13690.5	13695.9	13702.7	13705.4
5°	13344.5	13331.6	13328.9	13356.7	13345.2
7.5°	12627.4	12609.1	12581.4	12644.3	12703.3
10°	11426.2	11405.9	11345.6	11375.4	11423.5
12.5°	9652.9	9587.2	9585.8	9680.6	9667.8
15°	7312.1	7224.1	7272.8	7249.1	7236.3
17.5°	4917.2	4883.3	4948.3	4928.7	4844.0
20°	3537.2	3546.0	3669.9	3607.6	3532.5
22.5°	2581.1	2613.0	2759.9	2599.4	2540.5
25°	1718.5	1783.5	1937.9	1738.1	1683.3
27.5°	1057.0	1086.8	1243.2	1043.4	1013.6
30°	657.5	642.6	716.4	614.8	572.8
32.5°	431.3	412.4	436.1	391.4	357.5
35°	288.4	294.5	276.3	274.2	231.6
37.5°	180.1	207.2	182.8	195.0	149.0
40°	116.5	150.3	129.3	142.9	109.7
42.5°	95.5	115.8	106.3	113.1	97.5
45°	75.8	94.1	94.1	94.1	76.5
47.5°	42.0	63.0	80.6	64.3	44.7
50°	23.7	31.8	62.3	33.2	25.1
52.5°	16.3	18.3	42.7	19.0	16.9
55°	12.2	12.9	23.0	13.5	12.9
57.5°	9.5	10.2	12.2	10.2	9.5
60°	7.4	7.4	8.8	8.1	7.4
62.5°	5.4	5.4	6.1	5.4	5.4
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.4	1.4	1.4	2.0
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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