

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P766432

Luminaire Tested: LD6D45BD010-EU6DR3040509040-6LBSQW1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766432  
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-EU6DR3040509040-6LBSQW1B  
Description: 6 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

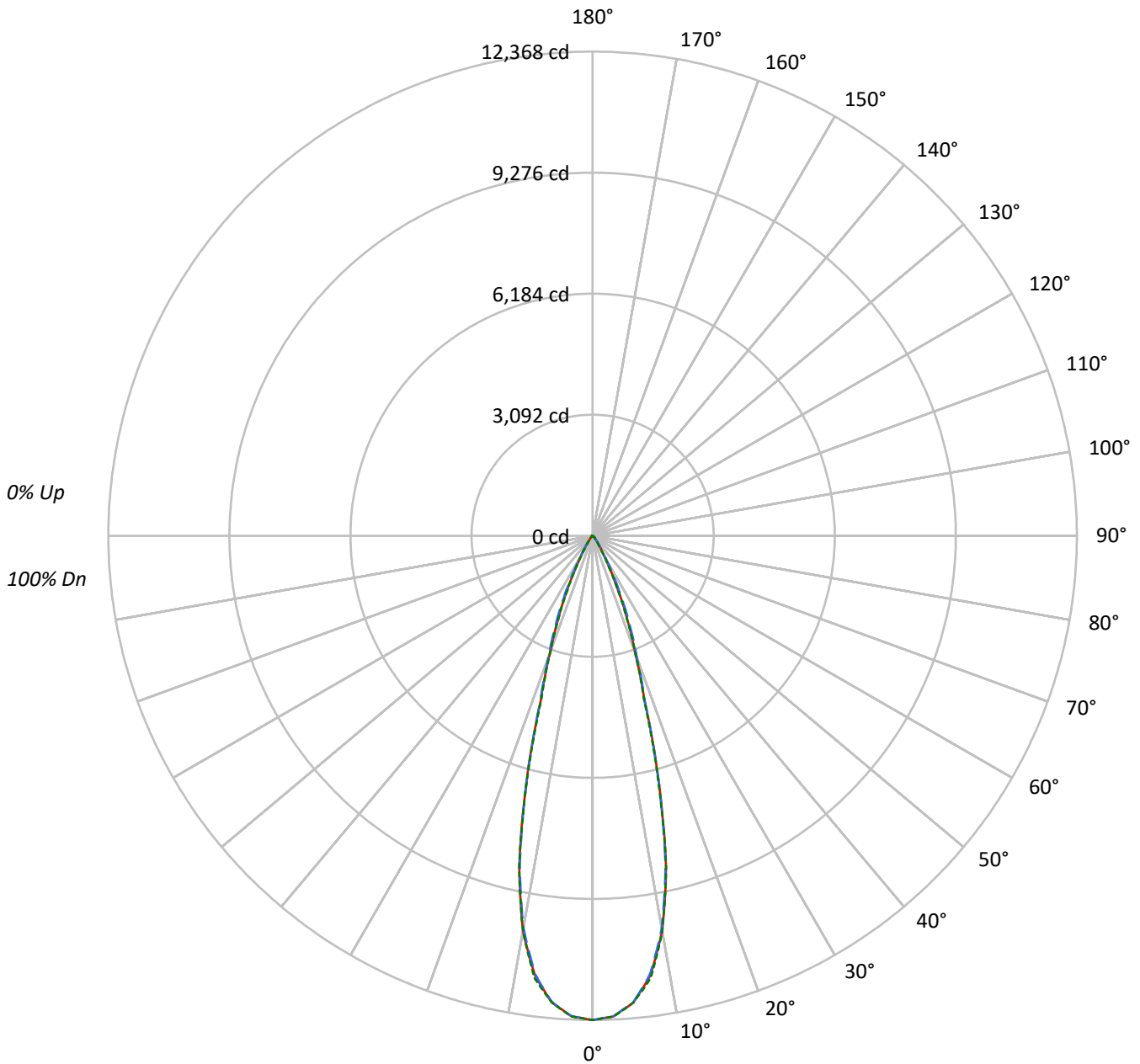
Lumens per Lamp: N/A  
Luminaire Lumens: 3846.5 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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°	946719	946719	946719
5°	919548	918472	919594
10°	796463	790852	796277
15°	519655	516866	514267
20°	258402	268095	258052
25°	130164	146777	127495
30°	52112	56787	45403
35°	24174	23155	19408
40°	10432	11591	9832
45°	7361	9136	7426
50°	2536	6657	2679
55°	1455	2749	1535
60°	1026	1209	1026
65°	652	652	652
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: 9136 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1087.6	28.3
10°-20°	1751.6	45.5
20°-30°	756.9	19.7
30°-40°	172.5	4.5
40°-50°	59.2	1.5
50°-60°	14.5	0.4
60°-70°	3.7	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°	3596.2	93.5
0°-40°	3768.7	98.0
0°-60°	3842.4	99.9
0°-90°	3846.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3846.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12368	12368	12368	12368	12368	
5°	11968	11956	11954	11979	11968	1089
15°	6558	6479	6522	6501	6490	1756
25°	1541	1600	1738	1559	1510	738
35°	259	264	248	246	208	175
45°	68	84	84	84	69	48
55°	11	12	21	12	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°	12368.4	12368.4	12368.4	12368.4	12368.4
2.5°	12286.5	12278.0	12282.8	12288.9	12291.3
5°	11967.7	11956.1	11953.7	11978.6	11968.3
7.5°	11324.6	11308.2	11283.3	11339.8	11392.6
10°	10247.3	10229.1	10175.1	10201.8	10244.9
12.5°	8656.9	8598.0	8596.8	8681.8	8670.3
15°	6557.7	6478.7	6522.5	6501.2	6489.7
17.5°	4409.8	4379.5	4437.8	4420.2	4344.3
20°	3172.3	3180.2	3291.3	3235.4	3168.0
22.5°	2314.8	2343.4	2475.1	2331.2	2278.4
25°	1541.2	1599.5	1737.9	1558.8	1509.6
27.5°	947.9	974.6	1114.9	935.8	909.1
30°	589.6	576.3	642.5	551.4	513.7
32.5°	386.8	369.8	391.1	351.0	320.6
35°	258.7	264.2	247.8	245.9	207.7
37.5°	161.5	185.8	164.0	174.9	133.6
40°	104.4	134.8	116.0	128.1	98.4
42.5°	85.6	103.8	95.3	101.4	87.4
45°	68.0	84.4	84.4	84.4	68.6
47.5°	37.6	56.5	72.3	57.7	40.1
50°	21.3	28.5	55.9	29.8	22.5
52.5°	14.6	16.4	38.3	17.0	15.2
55°	10.9	11.5	20.6	12.1	11.5
57.5°	8.5	9.1	10.9	9.1	8.5
60°	6.7	6.7	7.9	7.3	6.7
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.6	3.6	3.6	3.6	3.6
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

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - 90°-270°

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