

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: P766445

Luminaire Tested: LD6D45BD010-EU6DR3040509050-6LBSQW1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766445  
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-EU6DR3040509050-6LBSQW1B  
Description: 6 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

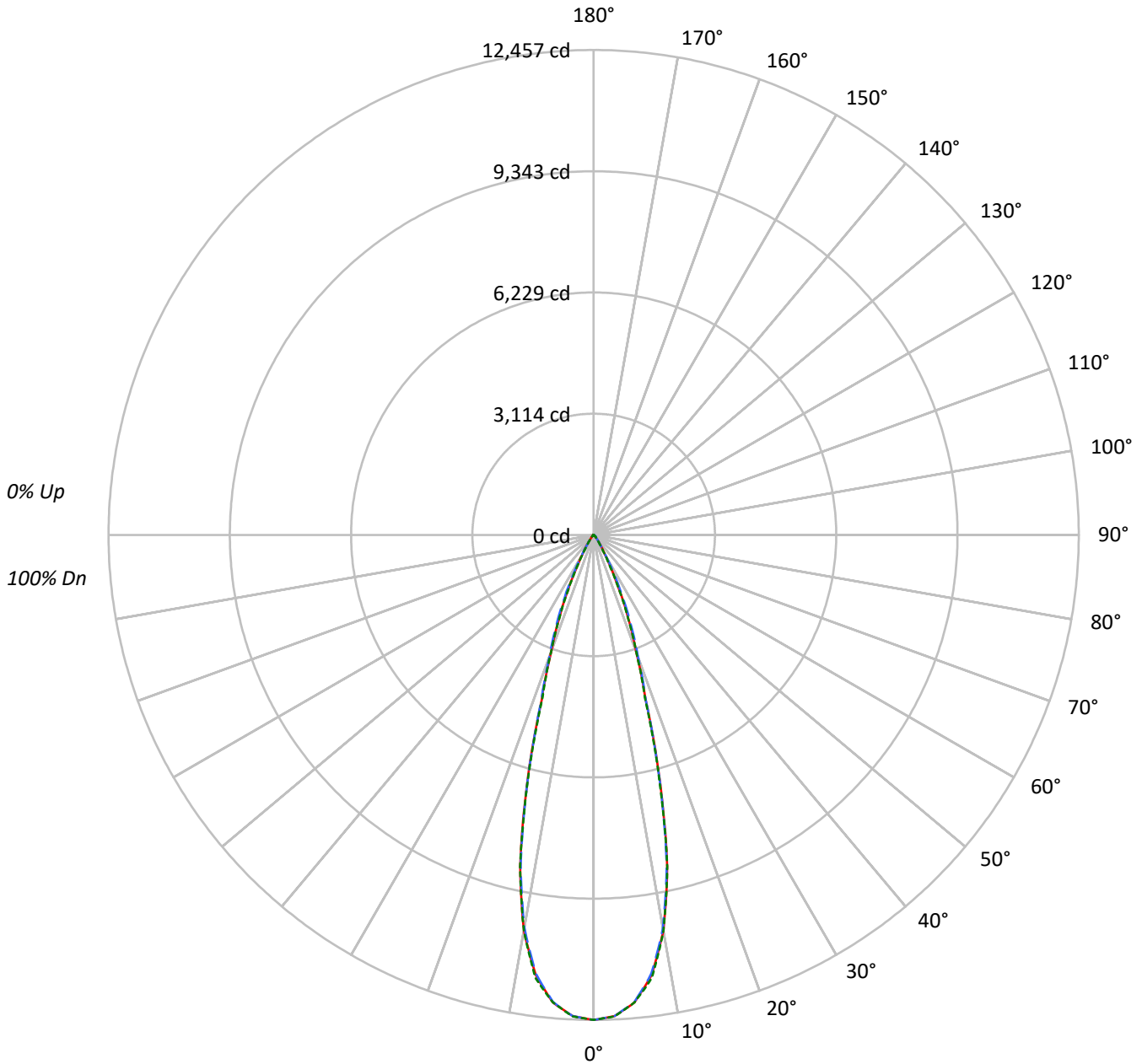
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3874.0 lumens  
Efficiency: N/A  
Efficacy: 100.1 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	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°	953486	953486	953486
5°	926109	925034	926163
10°	802153	796494	801966
15°	523364	520559	517936
20°	260243	270010	259893
25°	131093	147832	128407
30°	52492	57194	45730
35°	24342	23314	19548
40°	10512	11671	9902
45°	7415	9201	7480
50°	2548	6704	2691
55°	1468	2776	1548
60°	1026	1225	1026
65°	670	670	670
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: 9201 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1095.4	28.3
10°-20°	1764.1	45.5
20°-30°	762.3	19.7
30°-40°	173.7	4.5
40°-50°	59.7	1.5
50°-60°	14.6	0.4
60°-70°	3.8	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°	3621.8	93.5
0°-40°	3795.6	98.0
0°-60°	3869.8	99.9
0°-90°	3874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3874.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12457	12457	12457	12457	12457	
5°	12053	12042	12039	12064	12054	1096
15°	6604	6525	6569	6548	6536	1768
25°	1552	1611	1750	1570	1520	743
35°	260	266	250	248	209	177
45°	68	85	85	85	69	49
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°	12456.8	12456.8	12456.8	12456.8	12456.8
2.5°	12374.2	12365.7	12370.6	12376.7	12379.1
5°	12053.1	12041.5	12039.1	12064.2	12053.8
7.5°	11405.5	11389.0	11363.9	11420.8	11474.0
10°	10320.5	10302.2	10247.7	10274.7	10318.1
12.5°	8718.8	8659.5	8658.2	8743.9	8732.2
15°	6604.5	6525.0	6569.1	6547.6	6536.0
17.5°	4441.3	4410.8	4469.5	4451.7	4375.3
20°	3194.9	3202.9	3314.8	3258.5	3190.6
22.5°	2331.4	2360.1	2492.8	2347.9	2294.7
25°	1552.2	1610.9	1750.4	1569.9	1520.4
27.5°	954.7	981.6	1122.9	942.5	915.5
30°	593.9	580.4	647.1	555.3	517.4
32.5°	389.6	372.5	393.9	353.5	322.9
35°	260.5	266.0	249.5	247.7	209.2
37.5°	162.7	187.1	165.1	176.1	134.5
40°	105.2	135.8	116.8	129.0	99.1
42.5°	86.2	104.6	96.0	102.1	88.1
45°	68.5	85.0	85.0	85.0	69.1
47.5°	37.9	56.9	72.8	58.1	40.4
50°	21.4	28.7	56.3	30.0	22.6
52.5°	14.7	16.5	38.5	17.1	15.3
55°	11.0	11.6	20.8	12.2	11.6
57.5°	8.6	9.2	11.0	9.2	8.6
60°	6.7	6.7	8.0	7.3	6.7
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
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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