

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: P766418

Luminaire Tested: LD6D45BD010-EU6DR3040509035-6LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766418  
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-EU6DR3040509035-6LBS1MW  
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4841.9 lumens  
Efficiency: N/A  
Efficacy: 125.1 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 (A<sub>in</sub>): 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

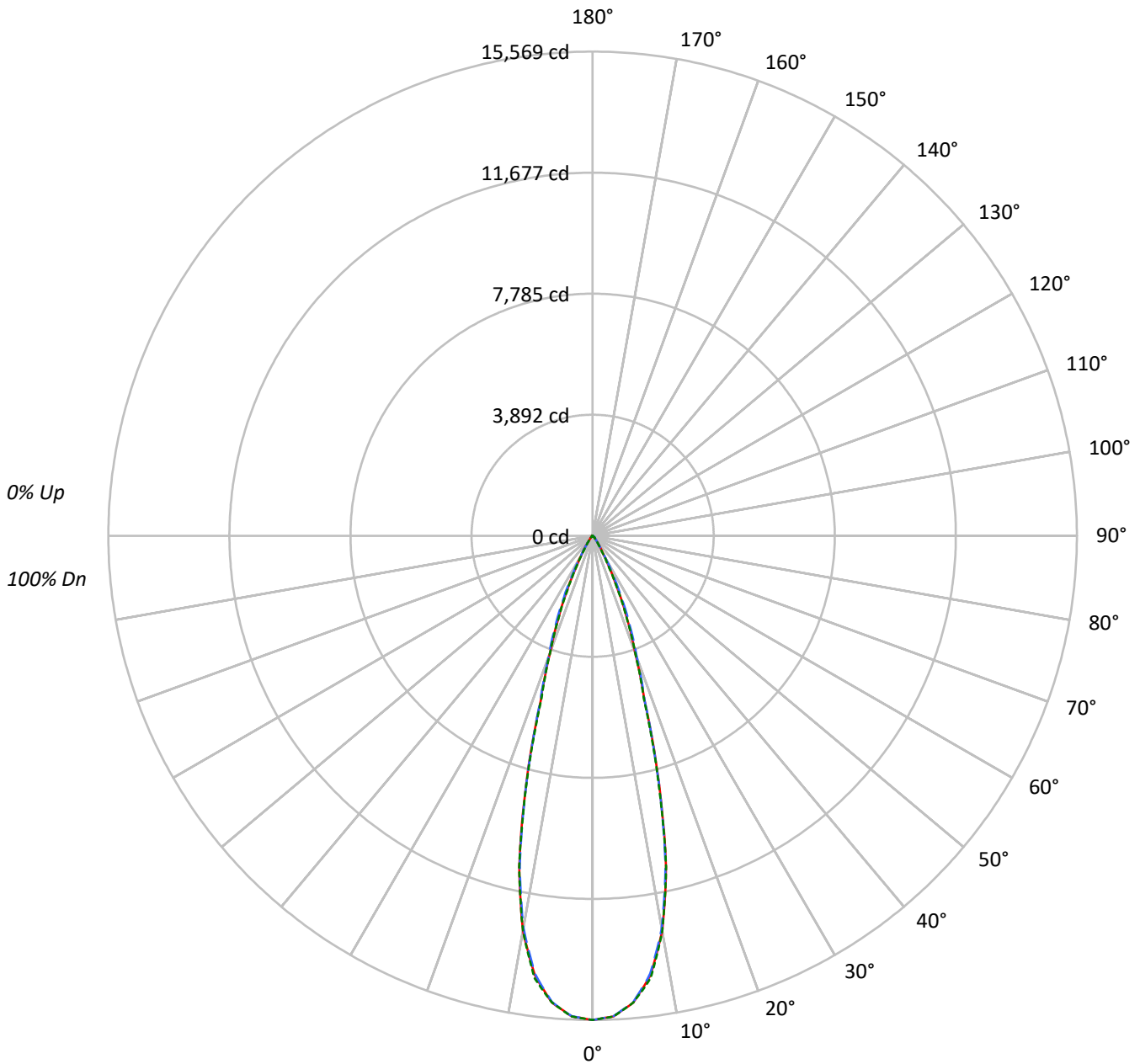


Downlight

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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°	1191712	1191712	1191712
5°	1157500	1156148	1157554
10°	1002572	995499	1002331
15°	654124	650613	647341
20°	325269	337471	324829
25°	163845	184765	160492
30°	65599	71477	57158
35°	30425	29145	24426
40°	13140	14588	12370
45°	9266	11496	9353
50°	3191	8371	3370
55°	1842	3470	1935
60°	1286	1516	1286
65°	833	833	833
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11496 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1369.1	28.3
10°-20°	2204.9	45.5
20°-30°	952.8	19.7
30°-40°	217.2	4.5
40°-50°	74.6	1.5
50°-60°	18.2	0.4
60°-70°	4.7	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°	4526.7	93.5
0°-40°	4743.9	98.0
0°-60°	4836.7	99.9
0°-90°	4841.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4841.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15569	15569	15569	15569	15569	
5°	15065	15050	15047	15078	15065	1370
15°	8255	8155	8210	8184	8169	2210
25°	1940	2013	2188	1962	1900	929
35°	326	332	312	310	261	221
45°	86	106	106	106	86	61
55°	14	14	26	15	14	13
65°	5	5	5	5	5	5
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°	15569.1	15569.1	15569.1	15569.1	15569.1
2.5°	15465.9	15455.2	15461.3	15468.9	15472.0
5°	15064.6	15050.0	15047.0	15078.3	15065.3
7.5°	14255.1	14234.4	14203.1	14274.2	14340.7
10°	12899.1	12876.1	12808.1	12841.7	12896.0
12.5°	10897.1	10823.0	10821.4	10928.5	10913.9
15°	8254.6	8155.3	8210.3	8183.5	8169.0
17.5°	5551.0	5512.8	5586.2	5564.0	5468.4
20°	3993.2	4003.1	4143.0	4072.7	3987.8
22.5°	2913.8	2949.8	3115.6	2934.5	2868.0
25°	1940.0	2013.4	2187.7	1962.2	1900.3
27.5°	1193.2	1226.8	1403.4	1177.9	1144.3
30°	742.2	725.4	808.7	694.1	646.7
32.5°	486.9	465.5	492.3	441.8	403.6
35°	325.6	332.5	311.9	309.6	261.4
37.5°	203.3	233.9	206.4	220.1	168.2
40°	131.5	169.7	146.0	161.3	123.8
42.5°	107.8	130.7	120.0	127.7	110.1
45°	85.6	106.2	106.2	106.2	86.4
47.5°	47.4	71.1	91.0	72.6	50.4
50°	26.8	35.9	70.3	37.5	28.3
52.5°	18.3	20.6	48.2	21.4	19.1
55°	13.8	14.5	26.0	15.3	14.5
57.5°	10.7	11.5	13.8	11.5	10.7
60°	8.4	8.4	9.9	9.2	8.4
62.5°	6.1	6.1	6.9	6.1	6.1
65°	4.6	4.6	4.6	4.6	4.6
67.5°	2.3	3.1	3.1	3.1	3.1
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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