

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: P748311

Luminaire Tested: LD4D45BD010-EU4DR3040509024-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D45BD010-EU4DR3040509024-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3076.0 lumens  
Efficiency: N/A  
Efficacy: 79.5 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

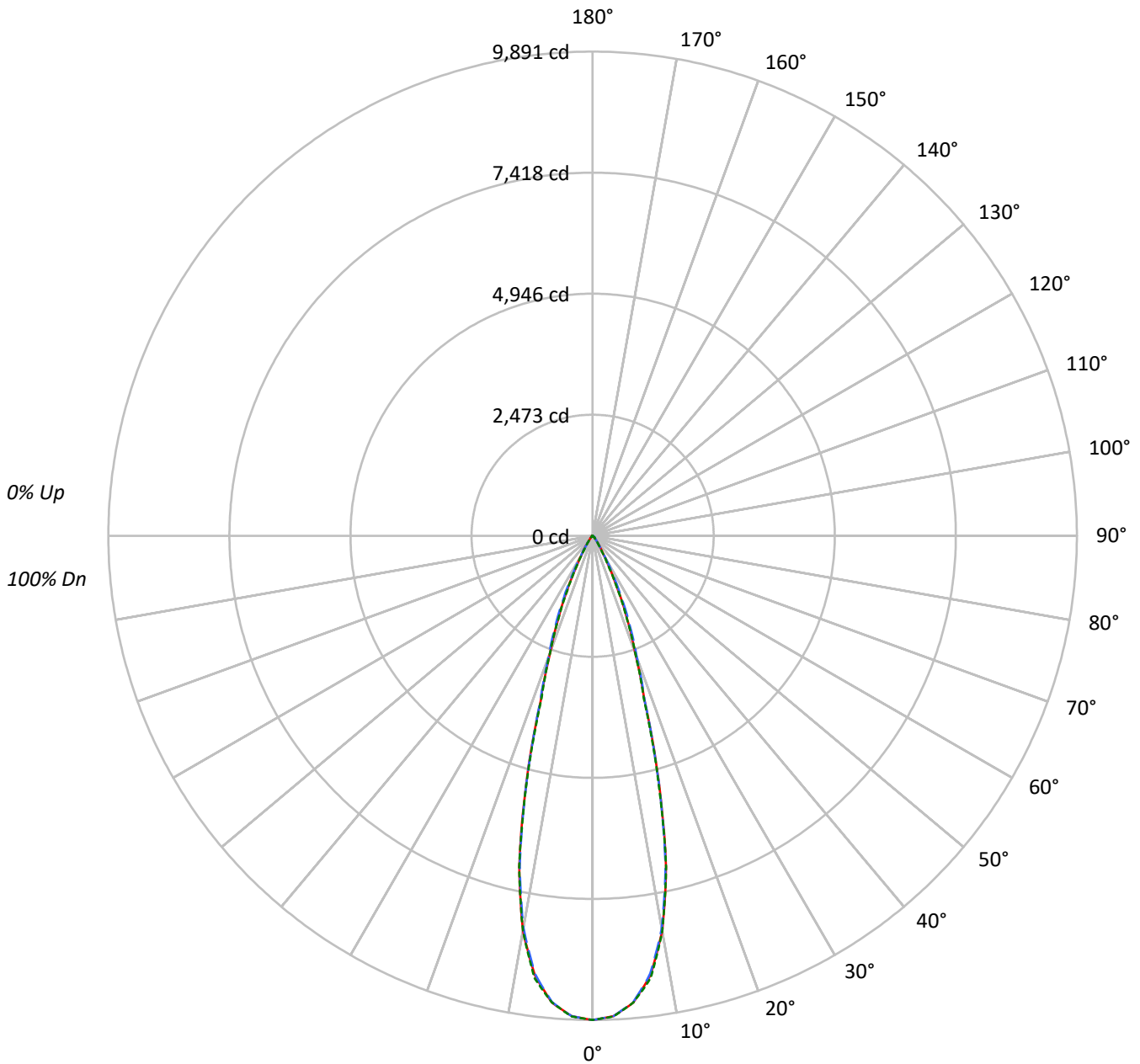


Downlight

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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°	757075	757075	757075
5°	735341	734481	735372
10°	636911	632426	636763
15°	415553	413326	411242
20°	206637	214392	206360
25°	104092	117377	101956
30°	41673	45412	36308
35°	19333	18511	15521
40°	8343	9273	7864
45°	5889	7307	5943
50°	2024	5323	2143
55°	1161	2202	1228
60°	811	964	811
65°	525	525	525
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7307 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	869.7	28.3
10°-20°	1400.7	45.5
20°-30°	605.3	19.7
30°-40°	138.0	4.5
40°-50°	47.4	1.5
50°-60°	11.6	0.4
60°-70°	3.0	0.1
70°-80°	0.3	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°	2875.8	93.5
0°-40°	3013.7	98.0
0°-60°	3072.7	99.9
0°-90°	3076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3076.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9891	9891	9891	9891	9891	
5°	9570	9561	9559	9579	9571	870
15°	5244	5181	5216	5199	5190	1404
25°	1232	1279	1390	1246	1207	590
35°	207	211	198	197	166	140
45°	54	68	68	68	55	39
55°	9	9	16	10	9	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	9890.8	9890.8	9890.8	9890.8	9890.8
2.5°	9825.2	9818.4	9822.3	9827.1	9829.1
5°	9570.3	9561.0	9559.1	9579.0	9570.7
7.5°	9056.0	9042.9	9023.0	9068.1	9110.4
10°	8194.5	8180.0	8136.8	8158.1	8192.6
12.5°	6922.8	6875.6	6874.7	6942.7	6933.4
15°	5244.0	5180.9	5215.9	5198.9	5189.6
17.5°	3526.4	3502.2	3548.8	3534.7	3474.0
20°	2536.8	2543.1	2632.0	2587.3	2533.4
22.5°	1851.1	1873.9	1979.3	1864.2	1822.0
25°	1232.5	1279.1	1389.8	1246.5	1207.2
27.5°	758.0	779.4	891.6	748.3	726.9
30°	471.5	460.8	513.8	440.9	410.8
32.5°	309.3	295.7	312.7	280.7	256.4
35°	206.9	211.2	198.1	196.7	166.1
37.5°	129.2	148.6	131.1	139.9	106.8
40°	83.5	107.8	92.8	102.5	78.7
42.5°	68.5	83.0	76.2	81.1	69.9
45°	54.4	67.5	67.5	67.5	54.9
47.5°	30.1	45.2	57.8	46.1	32.0
50°	17.0	22.8	44.7	23.8	18.0
52.5°	11.7	13.1	30.6	13.6	12.1
55°	8.7	9.2	16.5	9.7	9.2
57.5°	6.8	7.3	8.7	7.3	6.8
60°	5.3	5.3	6.3	5.8	5.3
62.5°	3.9	3.9	4.4	3.9	3.9
65°	2.9	2.9	2.9	2.9	2.9
67.5°	1.5	1.9	1.9	1.9	1.9
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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(END OF REPORT)