

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: P748376

Luminaire Tested: LD4D45BD010-EU4DR3040509050-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748376  
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-EU4DR3040509050-4LBDP1MW  
Description: 4 INCH ROUND 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: 3824.2 lumens  
Efficiency: N/A  
Efficacy: 98.8 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 (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

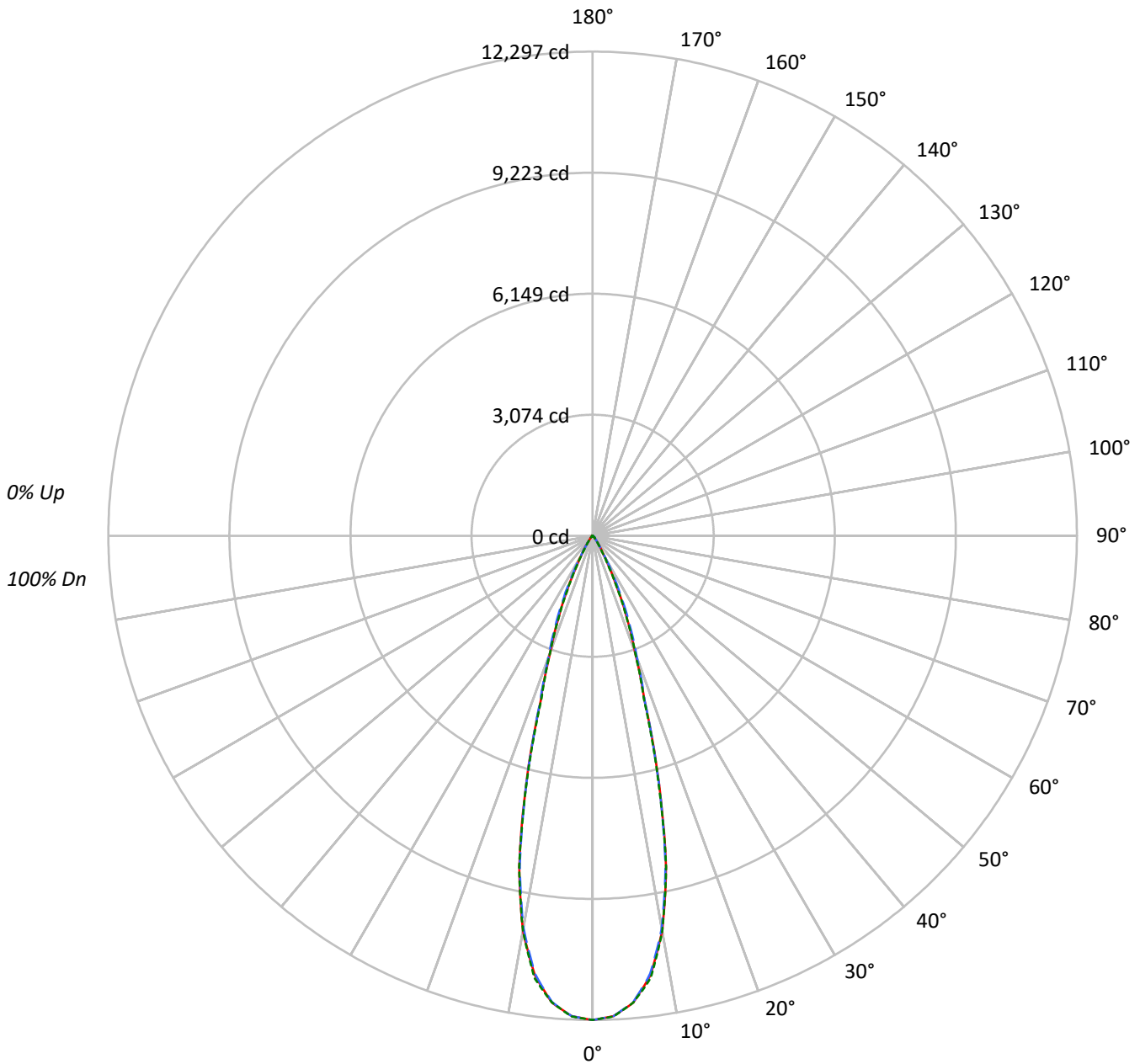


Downlight

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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	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°	941239	941239	941239
5°	914215	913147	914261
10°	791846	786266	791660
15°	516644	513871	511287
20°	256903	266540	256561
25°	129412	145932	126760
30°	51811	56451	45147
35°	24033	23015	19296
40°	10372	11521	9772
45°	7318	9082	7383
50°	2513	6609	2655
55°	1455	2736	1535
60°	1010	1194	1010
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: 9082 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1081.3	28.3
10°-20°	1741.5	45.5
20°-30°	752.5	19.7
30°-40°	171.5	4.5
40°-50°	58.9	1.5
50°-60°	14.4	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°	3575.3	93.5
0°-40°	3746.8	98.0
0°-60°	3820.1	99.9
0°-90°	3824.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3824.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12297	12297	12297	12297	12297	
5°	11898	11887	11884	11909	11899	1082
15°	6520	6441	6485	6464	6452	1746
25°	1532	1590	1728	1550	1501	733
35°	257	263	246	244	206	174
45°	68	84	84	84	68	48
55°	11	12	20	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°	12296.8	12296.8	12296.8	12296.8	12296.8
2.5°	12215.3	12206.8	12211.6	12217.7	12220.1
5°	11898.3	11886.8	11884.4	11909.2	11898.9
7.5°	11258.9	11242.6	11217.9	11274.0	11326.6
10°	10187.9	10169.8	10116.1	10142.6	10185.5
12.5°	8606.8	8548.2	8547.0	8631.5	8620.0
15°	6519.7	6441.2	6484.7	6463.5	6452.1
17.5°	4384.3	4354.1	4412.1	4394.5	4319.1
20°	3153.9	3161.7	3272.2	3216.7	3149.7
22.5°	2301.4	2329.8	2460.8	2317.7	2265.2
25°	1532.3	1590.2	1727.9	1549.8	1500.9
27.5°	942.4	969.0	1108.4	930.3	903.8
30°	586.2	572.9	638.7	548.2	510.8
32.5°	384.6	367.7	388.8	349.0	318.8
35°	257.2	262.6	246.3	244.5	206.5
37.5°	160.6	184.7	163.0	173.9	132.8
40°	103.8	134.0	115.3	127.4	97.8
42.5°	85.1	103.2	94.8	100.8	86.9
45°	67.6	83.9	83.9	83.9	68.2
47.5°	37.4	56.1	71.8	57.4	39.8
50°	21.1	28.4	55.5	29.6	22.3
52.5°	14.5	16.3	38.0	16.9	15.1
55°	10.9	11.5	20.5	12.1	11.5
57.5°	8.5	9.1	10.9	9.1	8.5
60°	6.6	6.6	7.8	7.2	6.6
62.5°	4.8	4.8	5.4	4.8	4.8
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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(END OF REPORT)