

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: P755400

Luminaire Tested: LD4D90BD010-EU4DR3070959050-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755400  
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: LD4D90BD010-EU4DR3070959050-4LBS1MW  
Description: 4 INCH ROUND SHALLOW 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: 8946.8 lumens  
Efficiency: N/A  
Efficacy: 90.5 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): 98.9  
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

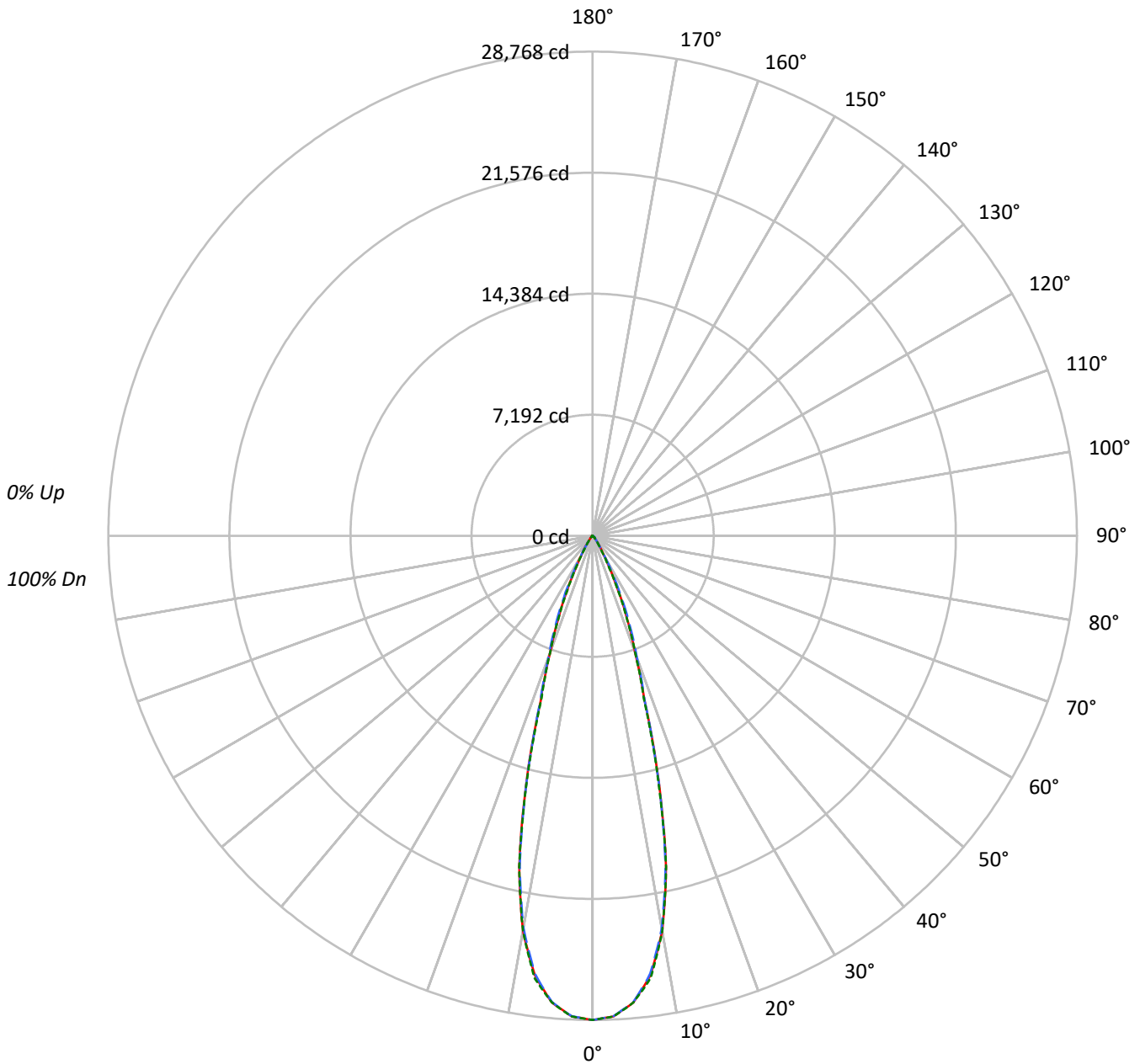


Downlight

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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°	2202039	2202039	2202039
5°	2138824	2136327	2138931
10°	1852549	1839483	1852106
15°	1208694	1202204	1196158
20°	601030	623577	600223
25°	302759	341406	296551
30°	121220	132082	105611
35°	56224	53851	45142
40°	24271	26958	22862
45°	17125	21249	17276
50°	5883	15469	6228
55°	3390	6406	3576
60°	2373	2817	2373
65°	1539	1539	1539
70°	940	627	940
75°	0	414	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 21249 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2529.8	28.3
10°-20°	4074.2	45.5
20°-30°	1760.6	19.7
30°-40°	401.3	4.5
40°-50°	137.8	1.5
50°-60°	33.6	0.4
60°-70°	8.7	0.1
70°-80°	0.9	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°	8364.5	93.5
0°-40°	8765.8	98.0
0°-60°	8937.2	99.9
0°-90°	8946.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8946.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	28768	28768	28768	28768	28768	
5°	27836	27810	27804	27862	27838	2532
15°	15253	15069	15171	15122	15095	4084
25°	3585	3720	4042	3626	3511	1716
35°	602	614	576	572	483	408
45°	158	196	196	196	160	112
55°	25	27	48	28	27	25
65°	8	8	8	8	8	8
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°	28768.5	28768.5	28768.5	28768.5	28768.5
2.5°	28577.8	28558.1	28569.4	28583.5	28589.1
5°	27836.3	27809.5	27803.8	27861.7	27837.7
7.5°	26340.5	26302.4	26244.5	26375.8	26498.7
10°	23834.9	23792.5	23666.8	23728.9	23829.2
12.5°	20135.7	19998.7	19995.9	20193.6	20166.8
15°	15252.9	15069.3	15171.0	15121.5	15094.7
17.5°	10257.1	10186.5	10322.1	10281.1	10104.6
20°	7378.6	7396.9	7655.4	7525.5	7368.7
22.5°	5384.2	5450.6	5757.1	5422.3	5299.5
25°	3584.8	3720.4	4042.4	3625.7	3511.3
27.5°	2204.8	2267.0	2593.2	2176.6	2114.4
30°	1371.5	1340.4	1494.4	1282.5	1194.9
32.5°	899.7	860.2	909.6	816.4	745.8
35°	601.7	614.4	576.3	572.0	483.1
37.5°	375.7	432.2	381.4	406.8	310.7
40°	242.9	313.6	269.8	298.0	228.8
42.5°	199.2	241.5	221.8	235.9	203.4
45°	158.2	196.3	196.3	196.3	159.6
47.5°	87.6	131.4	168.1	134.2	93.2
50°	49.4	66.4	129.9	69.2	52.3
52.5°	33.9	38.1	89.0	39.5	35.3
55°	25.4	26.8	48.0	28.2	26.8
57.5°	19.8	21.2	25.4	21.2	19.8
60°	15.5	15.5	18.4	16.9	15.5
62.5°	11.3	11.3	12.7	11.3	11.3
65°	8.5	8.5	8.5	8.5	8.5
67.5°	4.2	5.6	5.6	5.6	5.6
70°	4.2	2.8	2.8	2.8	4.2
72.5°	2.8	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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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