

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: P755346

Luminaire Tested: LD4D90BD010-EU4DR3070959027-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755346  
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-EU4DR3070959027-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8575.9 lumens  
Efficiency: N/A  
Efficacy: 86.7 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

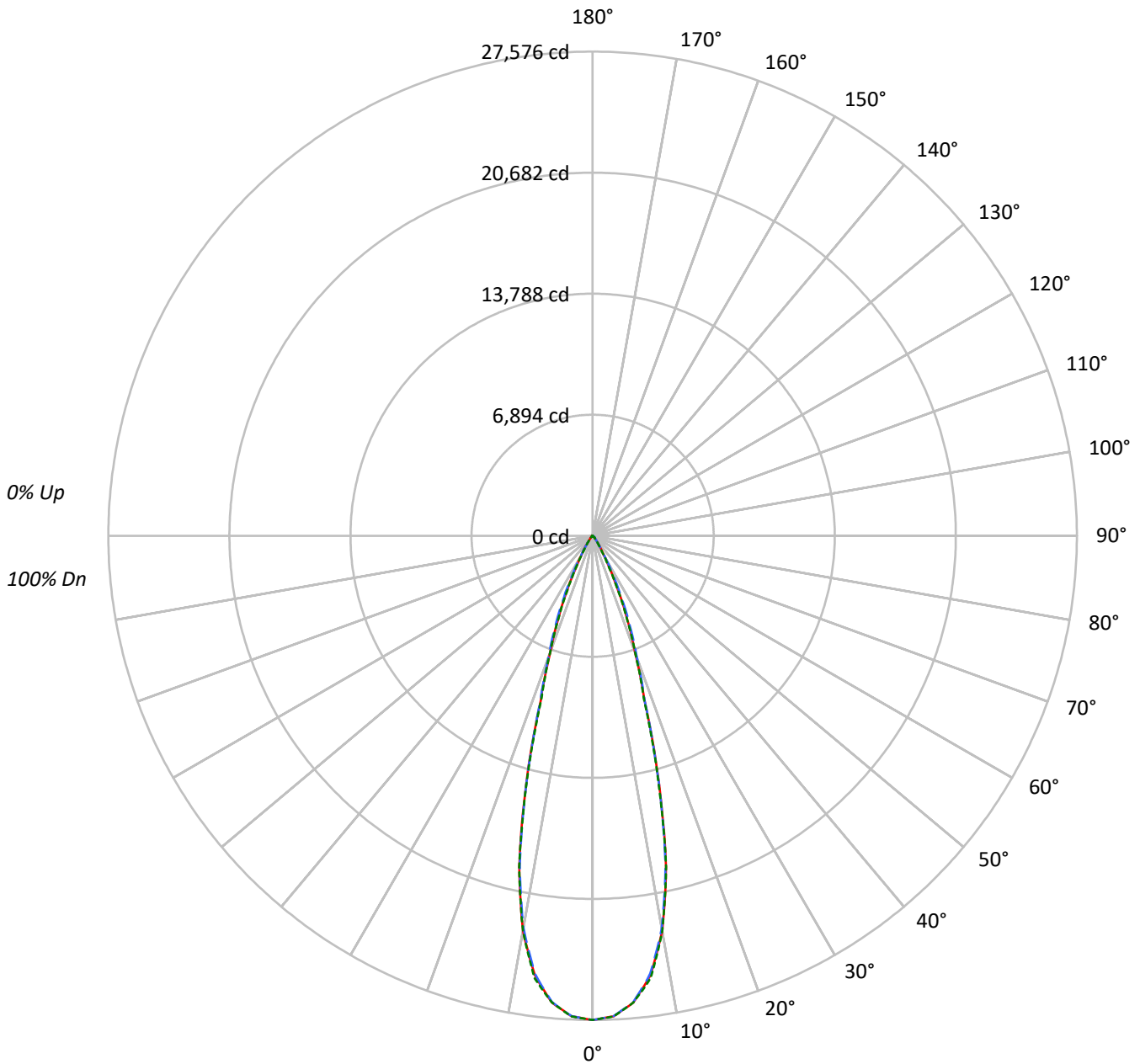


Downlight

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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°	2110738	2110738	2110738
5°	2050140	2047750	2050248
10°	1775734	1763212	1775314
15°	1158580	1152352	1146559
20°	576104	597723	575338
25°	290200	327251	284255
30°	116191	126602	101236
35°	53888	51617	43264
40°	23271	25839	21913
45°	16411	20372	16562
50°	5644	14837	5966
55°	3256	6139	3430
60°	2281	2694	2281
65°	1467	1467	1467
70°	918	604	918
75°	0	414	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 20372 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2424.9	28.3
10°-20°	3905.3	45.5
20°-30°	1687.6	19.7
30°-40°	384.6	4.5
40°-50°	132.1	1.5
50°-60°	32.3	0.4
60°-70°	8.3	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°	8017.7	93.5
0°-40°	8402.3	98.0
0°-60°	8566.7	99.9
0°-90°	8575.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8575.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27576	27576	27576	27576	27576	
5°	26682	26656	26651	26706	26684	2427
15°	14620	14444	14542	14495	14469	3915
25°	3436	3566	3875	3475	3366	1645
35°	577	589	552	548	463	391
45°	152	188	188	188	153	108
55°	24	26	46	27	26	24
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°	27575.7	27575.7	27575.7	27575.7	27575.7
2.5°	27392.9	27374.0	27384.8	27398.3	27403.7
5°	26682.1	26656.4	26651.0	26706.5	26683.5
7.5°	25248.4	25211.8	25156.3	25282.2	25400.0
10°	22846.6	22806.0	22685.5	22745.1	22841.2
12.5°	19300.8	19169.5	19166.8	19356.3	19330.6
15°	14620.5	14444.5	14541.9	14494.6	14468.8
17.5°	9831.8	9764.1	9894.1	9854.8	9685.6
20°	7072.6	7090.2	7338.0	7213.4	7063.2
22.5°	5161.0	5224.6	5518.4	5197.5	5079.7
25°	3436.1	3566.1	3874.8	3475.4	3365.7
27.5°	2113.4	2173.0	2485.7	2086.3	2026.7
30°	1314.6	1284.8	1432.4	1229.3	1145.4
32.5°	862.4	824.5	871.9	782.5	714.8
35°	576.7	588.9	552.4	548.3	463.0
37.5°	360.1	414.3	365.5	389.9	297.9
40°	232.9	300.6	258.6	285.7	219.3
42.5°	190.9	231.5	212.6	226.1	195.0
45°	151.6	188.2	188.2	188.2	153.0
47.5°	83.9	125.9	161.1	128.6	89.4
50°	47.4	63.6	124.6	66.3	50.1
52.5°	32.5	36.6	85.3	37.9	33.8
55°	24.4	25.7	46.0	27.1	25.7
57.5°	19.0	20.3	24.4	20.3	19.0
60°	14.9	14.9	17.6	16.2	14.9
62.5°	10.8	10.8	12.2	10.8	10.8
65°	8.1	8.1	8.1	8.1	8.1
67.5°	4.1	5.4	5.4	5.4	5.4
70°	4.1	2.7	2.7	2.7	4.1
72.5°	2.7	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

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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)