

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: P746039

Luminaire Tested: LD4D30D010-EU4DR3020359050-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746039  
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: LD4D30D010-EU4DR3020359050-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3098.9 lumens  
Efficiency: N/A  
Efficacy: 106.9 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): 29  
Input Voltage (V): NR  
Input Current (Ain): 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

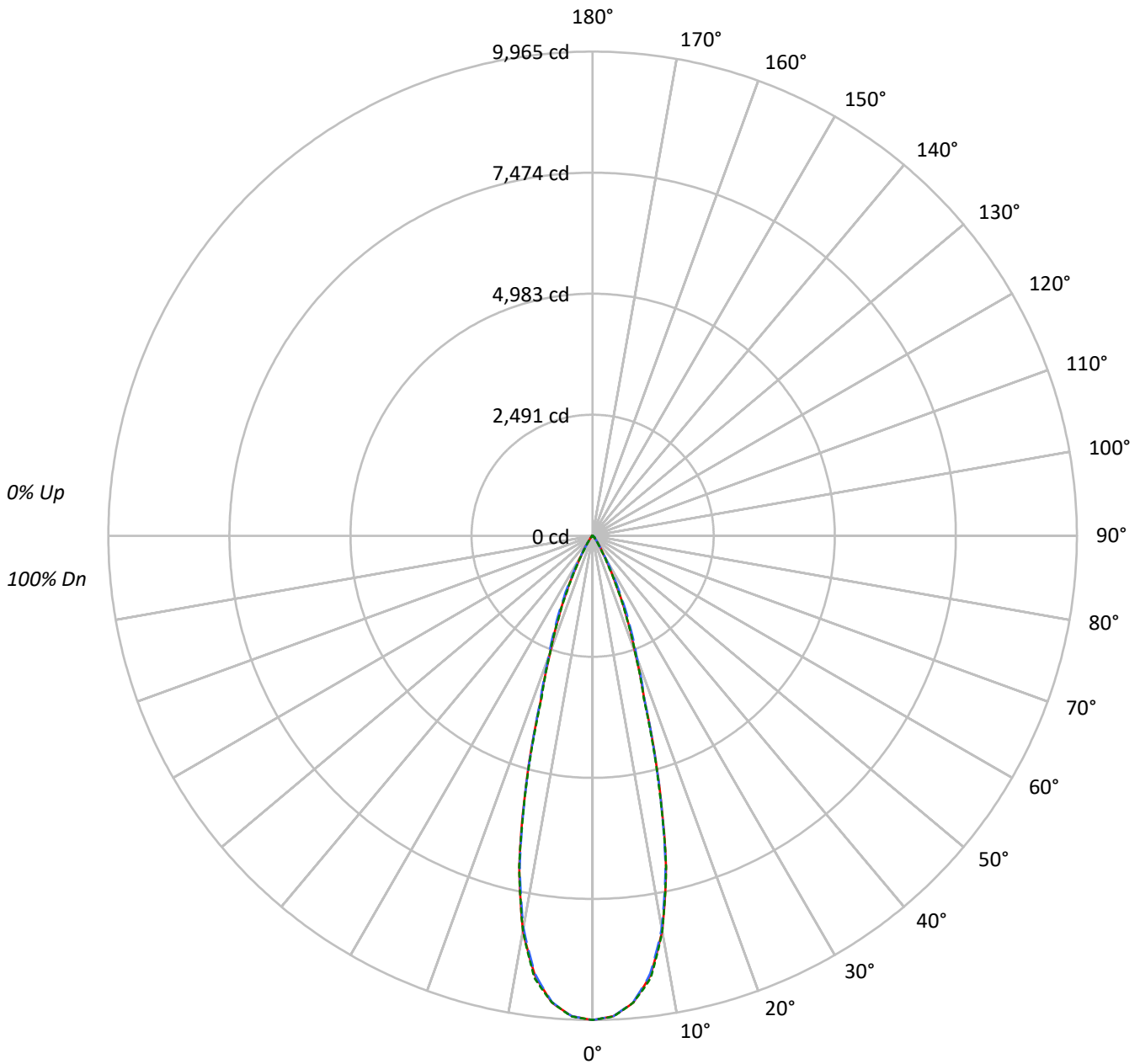


Downlight



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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°	762724	762724	762724
5°	740828	739967	740866
10°	641675	637152	641520
15°	418660	416409	414317
20°	208185	215988	207900
25°	104861	118256	102716
30°	41983	45748	36582
35°	19473	18651	15633
40°	8413	9333	7914
45°	5932	7361	5986
50°	2036	5359	2155
55°	1174	2215	1241
60°	827	980	827
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: 7361 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	876.2	28.3
10°-20°	1411.2	45.5
20°-30°	609.8	19.7
30°-40°	139.0	4.5
40°-50°	47.7	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°	2897.2	93.5
0°-40°	3036.2	98.0
0°-60°	3095.6	99.9
0°-90°	3098.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3098.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9965	9965	9965	9965	9965	
5°	9642	9632	9630	9651	9642	877
15°	5283	5220	5255	5238	5228	1415
25°	1242	1289	1400	1256	1216	594
35°	208	213	200	198	167	141
45°	55	68	68	68	55	39
55°	9	9	17	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°	9964.6	9964.6	9964.6	9964.6	9964.6
2.5°	9898.6	9891.8	9895.7	9900.5	9902.5
5°	9641.7	9632.4	9630.5	9650.6	9642.2
7.5°	9123.7	9110.4	9090.4	9135.9	9178.4
10°	8255.8	8241.1	8197.6	8219.0	8253.8
12.5°	6974.5	6927.0	6926.0	6994.5	6985.2
15°	5283.2	5219.6	5254.8	5237.7	5228.4
17.5°	3552.8	3528.3	3575.3	3561.1	3499.9
20°	2555.8	2562.1	2651.6	2606.6	2552.3
22.5°	1865.0	1887.9	1994.1	1878.1	1835.6
25°	1241.6	1288.6	1400.2	1255.9	1216.2
27.5°	763.7	785.2	898.2	753.9	732.4
30°	475.0	464.3	517.6	444.2	413.9
32.5°	311.6	297.9	315.1	282.8	258.3
35°	208.4	212.8	199.6	198.1	167.3
37.5°	130.1	149.7	132.1	140.9	107.7
40°	84.2	108.6	93.4	103.2	79.2
42.5°	69.0	83.7	76.8	81.7	70.5
45°	54.8	68.0	68.0	68.0	55.3
47.5°	30.3	45.5	58.2	46.5	32.3
50°	17.1	23.0	45.0	23.9	18.1
52.5°	11.7	13.2	30.8	13.7	12.2
55°	8.8	9.3	16.6	9.8	9.3
57.5°	6.9	7.3	8.8	7.3	6.9
60°	5.4	5.4	6.4	5.8	5.4
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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