

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: P746013

Luminaire Tested: LD4D30D010-EU4DR3020359035-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746013  
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-EU4DR3020359035-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3051.6 lumens  
Efficiency: N/A  
Efficacy: 105.2 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 (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

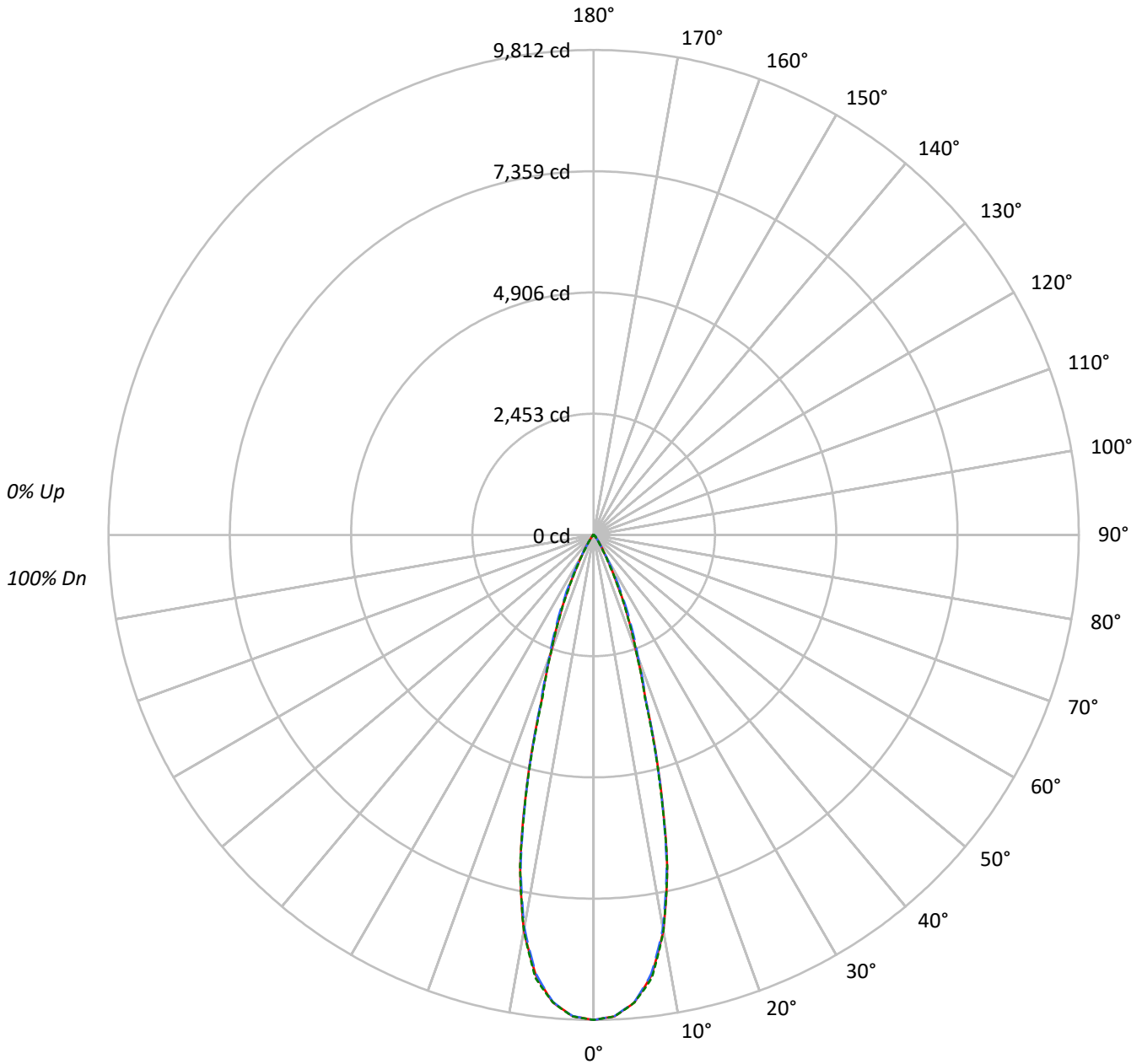


Downlight



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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																			
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°	751059	751059	751059
5°	729502	728649	729540
10°	631859	627405	631703
15°	412257	410038	407978
20°	204992	212689	204715
25°	103265	116440	101145
30°	41346	45050	36017
35°	19174	18371	15399
40°	8273	9193	7794
45°	5845	7253	5889
50°	2001	5275	2120
55°	1161	2189	1228
60°	811	949	811
65°	525	525	525
70°	313	224	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7253 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	862.8	28.3
10°-20°	1389.6	45.5
20°-30°	600.5	19.7
30°-40°	136.9	4.5
40°-50°	47.0	1.5
50°-60°	11.5	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°	2852.9	93.5
0°-40°	2989.8	98.0
0°-60°	3048.3	99.9
0°-90°	3051.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3051.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9812	9812	9812	9812	9812	
5°	9494	9485	9483	9503	9495	864
15°	5202	5140	5174	5158	5148	1393
25°	1223	1269	1379	1237	1198	585
35°	205	210	197	195	165	139
45°	54	67	67	67	54	38
55°	9	9	16	10	9	8
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°	9812.2	9812.2	9812.2	9812.2	9812.2
2.5°	9747.2	9740.5	9744.3	9749.1	9751.0
5°	9494.3	9485.1	9483.2	9503.0	9494.8
7.5°	8984.1	8971.1	8951.3	8996.1	9038.1
10°	8129.5	8115.0	8072.2	8093.3	8127.5
12.5°	6867.8	6821.0	6820.1	6887.6	6878.4
15°	5202.4	5139.8	5174.4	5157.6	5148.4
17.5°	3498.4	3474.4	3520.6	3506.6	3446.4
20°	2516.6	2522.9	2611.1	2566.8	2513.2
22.5°	1836.4	1859.1	1963.6	1849.4	1807.5
25°	1222.7	1268.9	1378.7	1236.7	1197.6
27.5°	752.0	773.2	884.5	742.4	721.2
30°	467.8	457.2	509.7	437.4	407.5
32.5°	306.9	293.4	310.3	278.5	254.4
35°	205.2	209.6	196.6	195.1	164.8
37.5°	128.2	147.4	130.1	138.8	106.0
40°	82.8	107.0	92.0	101.6	78.0
42.5°	68.0	82.4	75.6	80.4	69.4
45°	54.0	67.0	67.0	67.0	54.4
47.5°	29.9	44.8	57.4	45.8	31.8
50°	16.8	22.6	44.3	23.6	17.8
52.5°	11.6	13.0	30.4	13.5	12.0
55°	8.7	9.2	16.4	9.6	9.2
57.5°	6.8	7.2	8.7	7.2	6.8
60°	5.3	5.3	6.2	5.8	5.3
62.5°	3.8	3.8	4.4	3.8	3.8
65°	2.9	2.9	2.9	2.9	2.9
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	1.0	1.0	1.0	1.4
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

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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)