

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: P744110

Luminaire Tested: LD4D20D010-EU4DR3020359027-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744110  
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: LD4D20D010-EU4DR3020359027-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 1743.9 lumens  
Efficiency: N/A  
Efficacy: 75.5 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): 23.1  
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

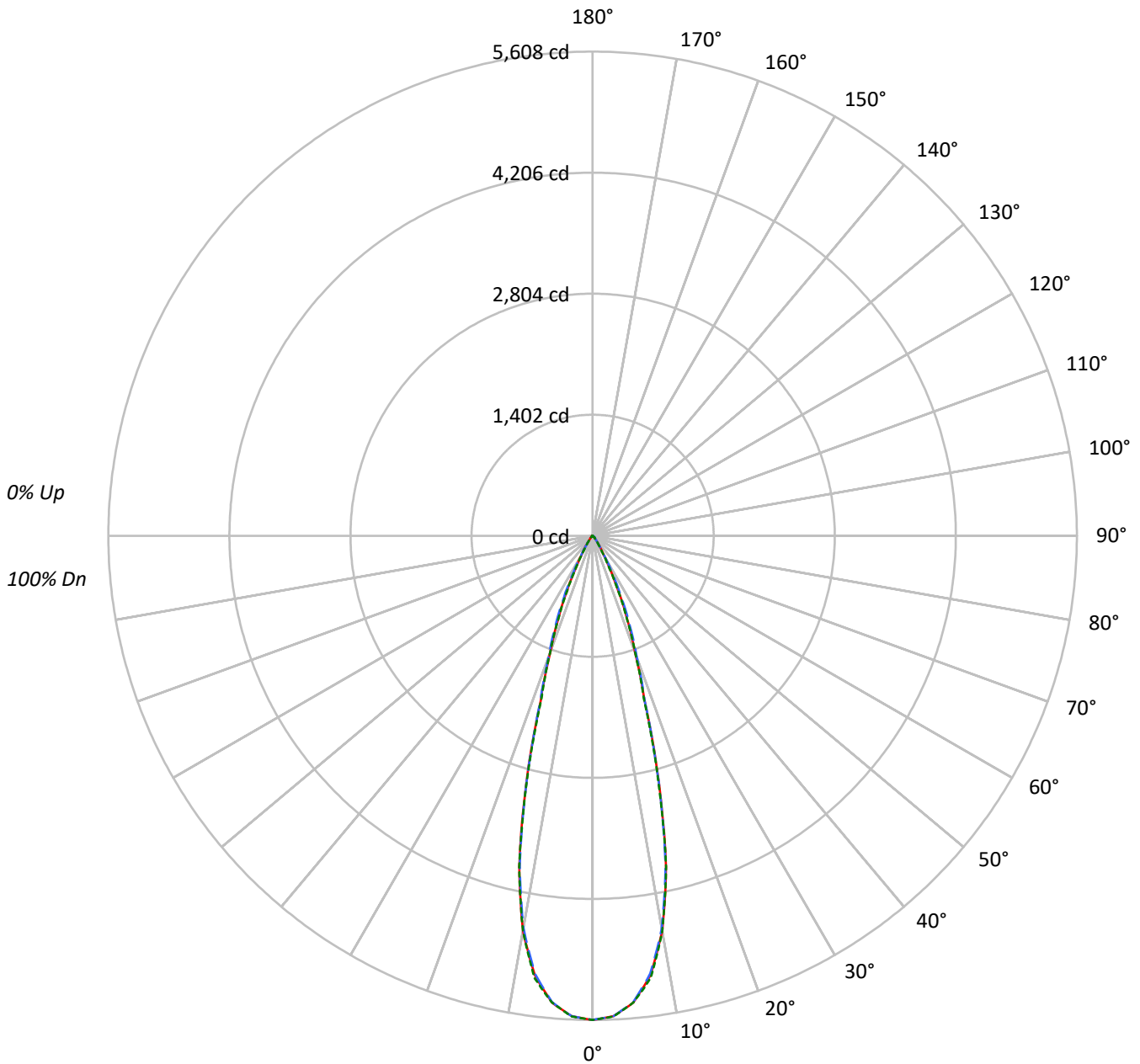


Downlight



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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	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°	429217	429217	429217
5°	416896	416412	416919
10°	361091	358550	361006
15°	235591	234331	233150
20°	117150	121548	116995
25°	59010	66543	57802
30°	23625	25746	20585
35°	10961	10494	8793
40°	4726	5256	4456
45°	3334	4146	3367
50°	1143	3013	1215
55°	654	1241	694
60°	459	551	459
65°	308	308	308
70°	179	134	179
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 4146 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	493.1	28.3
10°-20°	794.1	45.5
20°-30°	343.2	19.7
30°-40°	78.2	4.5
40°-50°	26.9	1.5
50°-60°	6.5	0.4
60°-70°	1.7	0.1
70°-80°	0.2	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°	1630.4	93.5
0°-40°	1708.6	98.0
0°-60°	1742.0	99.9
0°-90°	1743.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1743.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5608	5608	5608	5608	5608	
5°	5426	5421	5420	5431	5426	494
15°	2973	2937	2957	2948	2942	796
25°	699	725	788	707	684	334
35°	117	120	112	112	94	80
45°	31	38	38	38	31	22
55°	5	5	9	6	5	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5607.5	5607.5	5607.5	5607.5	5607.5
2.5°	5570.3	5566.5	5568.7	5571.4	5572.5
5°	5425.8	5420.6	5419.5	5430.8	5426.1
7.5°	5134.3	5126.8	5115.5	5141.1	5165.1
10°	4645.8	4637.6	4613.1	4625.2	4644.7
12.5°	3924.8	3898.1	3897.6	3936.1	3930.8
15°	2973.0	2937.3	2957.1	2947.5	2942.2
17.5°	1999.3	1985.5	2012.0	2004.0	1969.6
20°	1438.2	1441.8	1492.2	1466.9	1436.3
22.5°	1049.5	1062.4	1122.2	1056.9	1033.0
25°	698.7	725.2	787.9	706.7	684.4
27.5°	429.8	441.9	505.5	424.3	412.1
30°	267.3	261.3	291.3	250.0	232.9
32.5°	175.4	167.6	177.3	159.1	145.4
35°	117.3	119.7	112.3	111.5	94.1
37.5°	73.2	84.2	74.3	79.3	60.6
40°	47.3	61.1	52.6	58.1	44.6
42.5°	38.8	47.1	43.2	46.0	39.6
45°	30.8	38.3	38.3	38.3	31.1
47.5°	17.1	25.6	32.8	26.1	18.2
50°	9.6	12.9	25.3	13.5	10.2
52.5°	6.6	7.4	17.4	7.7	6.9
55°	4.9	5.2	9.3	5.5	5.2
57.5°	3.8	4.1	4.9	4.1	3.8
60°	3.0	3.0	3.6	3.3	3.0
62.5°	2.2	2.2	2.5	2.2	2.2
65°	1.7	1.7	1.7	1.7	1.7
67.5°	0.8	1.1	1.1	1.1	1.1
70°	0.8	0.6	0.6	0.6	0.8
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)