

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: P745094

Luminaire Tested: LD4D25D010-EU4DR3020359050-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745094  
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: LD4D25D010-EU4DR3020359050-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2278.0 lumens  
Efficiency: N/A  
Efficacy: 90.8 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): 25.1  
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

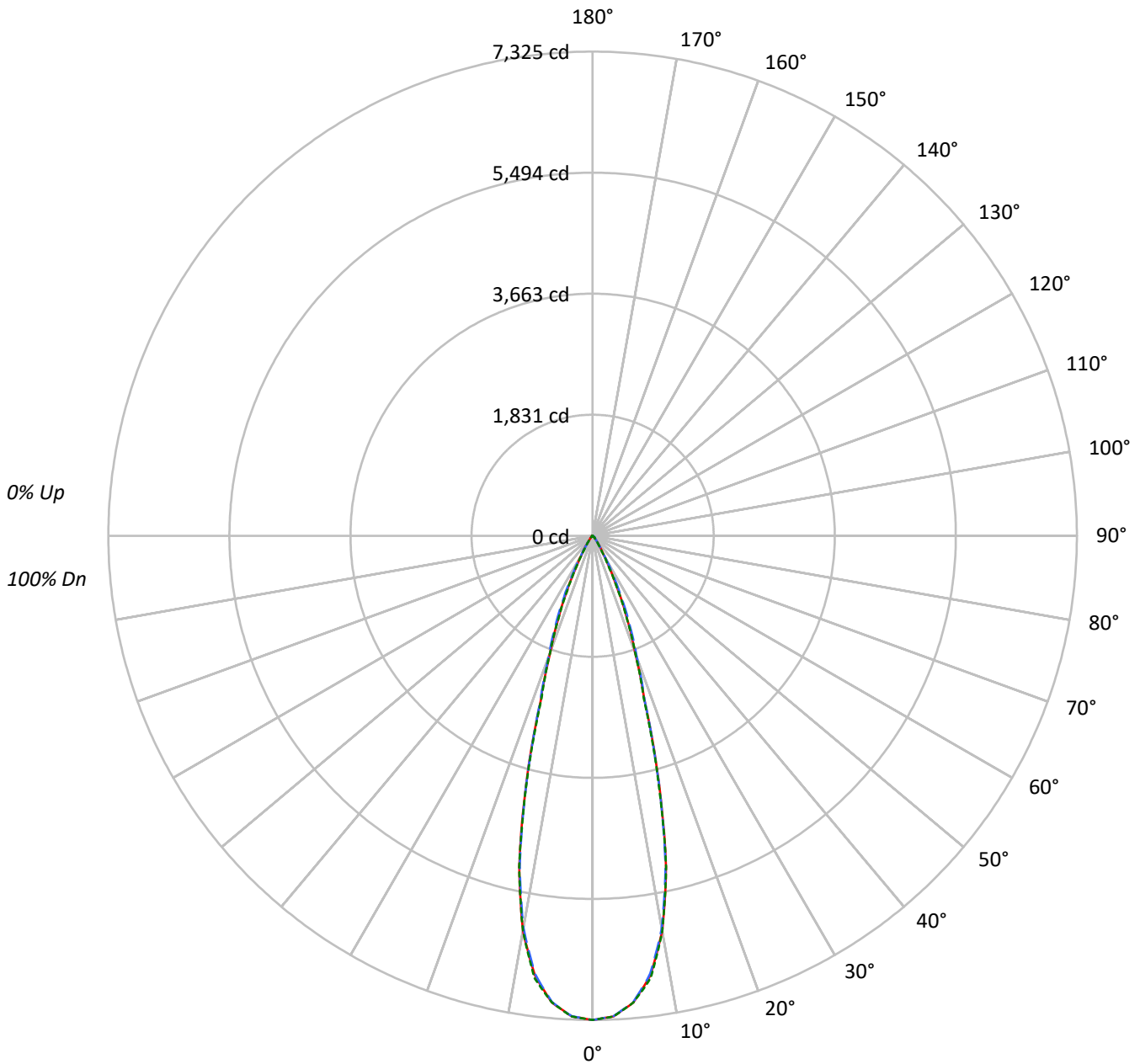


Downlight



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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					70					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°	560673	560673	560673
5°	544581	543944	544604
10°	471693	468366	471576
15°	307750	306102	304565
20°	153031	158774	152827
25°	77092	86922	75504
30°	30864	33630	26887
35°	14315	13708	11493
40°	6185	6865	5825
45°	4362	5412	4395
50°	1500	3942	1584
55°	867	1628	907
60°	612	720	612
65°	398	398	398
70°	246	157	246
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 5412 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	644.1	28.3
10°-20°	1037.4	45.5
20°-30°	448.3	19.7
30°-40°	102.2	4.5
40°-50°	35.1	1.5
50°-60°	8.6	0.4
60°-70°	2.2	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°	2129.7	93.5
0°-40°	2231.9	98.0
0°-60°	2275.6	99.9
0°-90°	2278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2278.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7325	7325	7325	7325	7325	
5°	7088	7081	7079	7094	7088	645
15°	3884	3837	3863	3850	3843	1040
25°	913	947	1029	923	894	437
35°	153	156	147	146	123	104
45°	40	50	50	50	41	29
55°	6	7	12	7	7	6
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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7324.9	7324.9	7324.9	7324.9	7324.9
2.5°	7276.4	7271.4	7274.2	7277.9	7279.3
5°	7087.6	7080.8	7079.3	7094.0	7087.9
7.5°	6706.7	6697.1	6682.3	6715.7	6747.0
10°	6068.8	6058.0	6026.0	6041.8	6067.3
12.5°	5126.9	5092.0	5091.3	5141.6	5134.8
15°	3883.6	3836.9	3862.8	3850.2	3843.4
17.5°	2611.6	2593.6	2628.2	2617.8	2572.8
20°	1878.7	1883.4	1949.2	1916.1	1876.2
22.5°	1370.9	1387.8	1465.8	1380.6	1349.4
25°	912.8	947.3	1029.2	923.2	894.0
27.5°	561.4	577.2	660.3	554.2	538.3
30°	349.2	341.3	380.5	326.5	304.2
32.5°	229.1	219.0	231.6	207.9	189.9
35°	153.2	156.4	146.7	145.6	123.0
37.5°	95.7	110.1	97.1	103.6	79.1
40°	61.9	79.8	68.7	75.9	58.3
42.5°	50.7	61.5	56.4	60.0	51.8
45°	40.3	50.0	50.0	50.0	40.6
47.5°	22.3	33.5	42.8	34.1	23.7
50°	12.6	16.9	33.1	17.6	13.3
52.5°	8.7	9.7	22.6	10.1	9.0
55°	6.5	6.8	12.2	7.2	6.8
57.5°	5.0	5.4	6.5	5.4	5.0
60°	4.0	4.0	4.7	4.3	4.0
62.5°	2.9	2.9	3.2	2.9	2.9
65°	2.2	2.2	2.2	2.2	2.2
67.5°	1.1	1.4	1.4	1.4	1.4
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	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



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Scaled Data Report







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

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(END OF REPORT)