

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: P745081

Luminaire Tested: LD4D25D010-EU4DR3020359040-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745081  
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-EU4DR3020359040-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2305.2 lumens  
Efficiency: N/A  
Efficacy: 91.8 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 (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

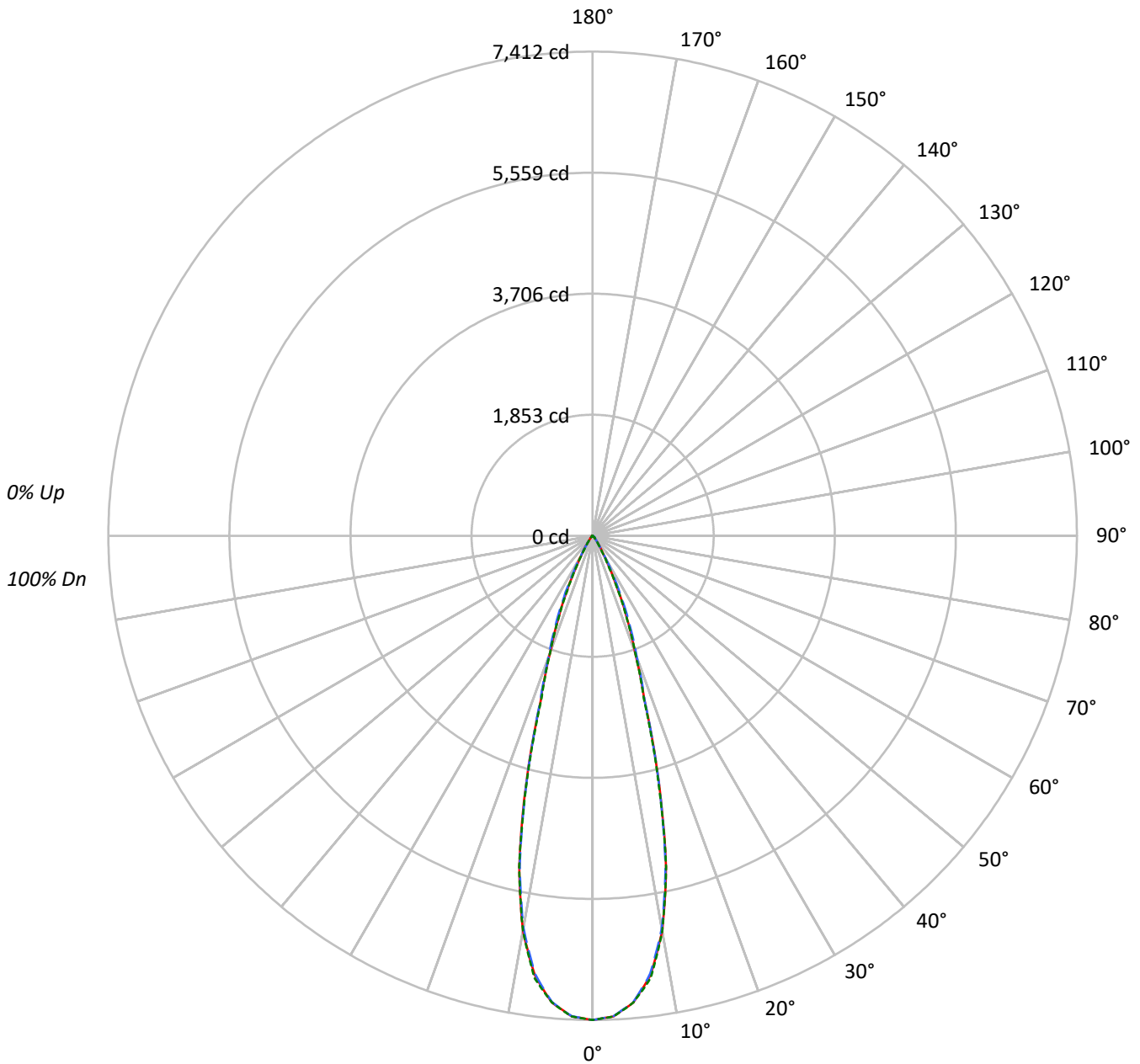


Downlight



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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	87	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°	567363	567363	567363
5°	551074	550436	551105
10°	477320	473954	477203
15°	311427	309755	308194
20°	154856	160663	154652
25°	78012	87970	76408
30°	31226	34028	27214
35°	14484	13876	11624
40°	6255	6944	5895
45°	4406	5477	4449
50°	1512	3989	1608
55°	867	1655	921
60°	612	735	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: 5477 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	651.8	28.3
10°-20°	1049.7	45.5
20°-30°	453.6	19.7
30°-40°	103.4	4.5
40°-50°	35.5	1.5
50°-60°	8.7	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°	2155.2	93.5
0°-40°	2258.6	98.0
0°-60°	2302.7	99.9
0°-90°	2305.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2305.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7412	7412	7412	7412	7412	
5°	7172	7165	7164	7179	7172	652
15°	3930	3883	3909	3896	3889	1052
25°	924	958	1042	934	905	442
35°	155	158	148	147	124	105
45°	41	51	51	51	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°	7412.3	7412.3	7412.3	7412.3	7412.3
2.5°	7363.2	7358.1	7361.0	7364.7	7366.1
5°	7172.1	7165.3	7163.8	7178.7	7172.5
7.5°	6786.8	6776.9	6762.0	6795.9	6827.5
10°	6141.2	6130.2	6097.9	6113.9	6139.7
12.5°	5188.1	5152.8	5152.0	5203.0	5196.1
15°	3930.0	3882.7	3908.9	3896.1	3889.2
17.5°	2642.8	2624.6	2659.5	2649.0	2603.5
20°	1901.1	1905.9	1972.4	1939.0	1898.6
22.5°	1387.3	1404.4	1483.4	1397.1	1365.5
25°	923.7	958.5	1041.6	934.2	904.7
27.5°	568.1	584.1	668.2	560.8	544.8
30°	353.3	345.4	385.0	330.4	307.9
32.5°	231.8	221.6	234.3	210.3	192.2
35°	155.0	158.3	148.5	147.4	124.4
37.5°	96.8	111.4	98.3	104.8	80.0
40°	62.6	80.8	69.5	76.8	59.0
42.5°	51.3	62.2	57.1	60.8	52.4
45°	40.7	50.6	50.6	50.6	41.1
47.5°	22.6	33.9	43.3	34.5	24.0
50°	12.7	17.1	33.5	17.8	13.5
52.5°	8.7	9.8	22.9	10.2	9.1
55°	6.5	6.9	12.4	7.3	6.9
57.5°	5.1	5.4	6.5	5.4	5.1
60°	4.0	4.0	4.8	4.4	4.0
62.5°	2.9	2.9	3.3	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)