

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: P745043

Luminaire Tested: LD4D25D010-EU4DR3020359027-4LBCSSQMMS

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745043  
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-EU4DR3020359027-4LBCSSQMMS  
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2057.8 lumens  
Efficiency: N/A  
Efficacy: 82.0 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



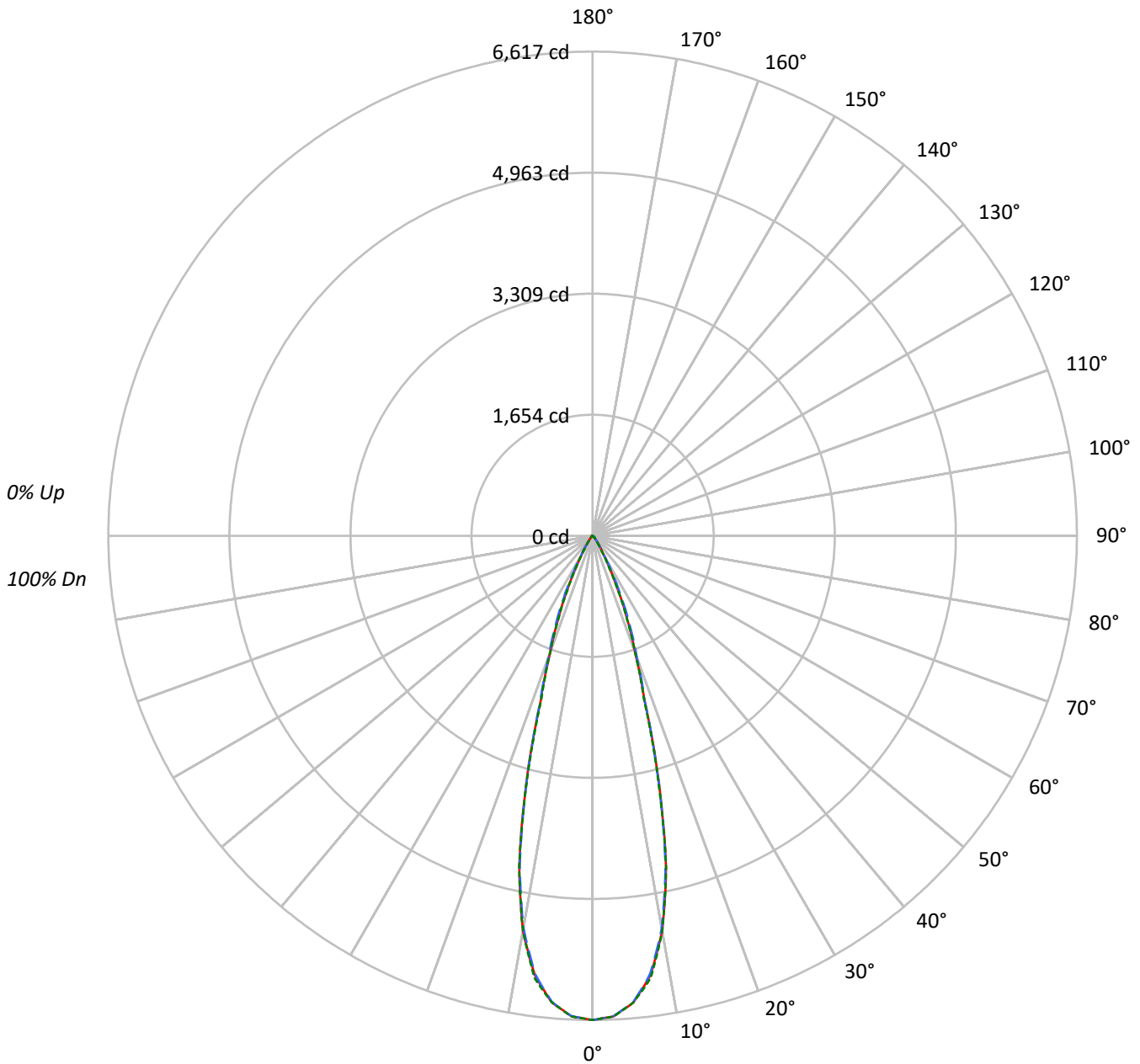
Downlight



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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	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°	506495	506495	506495
5°	491956	491380	491979
10°	426107	423099	426006
15°	278010	276520	275134
20°	138239	143427	138059
25°	69634	78527	68207
30°	27885	30378	24288
35°	12932	12381	10381
40°	5586	6205	5266
45°	3940	4882	3973
50°	1346	3561	1429
55°	774	1481	827
60°	551	643	551
65°	344	344	344
70°	224	134	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 4882 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	581.9	28.3
10°-20°	937.1	45.5
20°-30°	404.9	19.7
30°-40°	92.3	4.5
40°-50°	31.7	1.5
50°-60°	7.7	0.4
60°-70°	2.0	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°	1923.9	93.5
0°-40°	2016.2	98.0
0°-60°	2055.6	99.9
0°-90°	2057.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2057.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6617	6617	6617	6617	6617	
5°	6403	6396	6395	6408	6403	582
15°	3508	3466	3490	3478	3472	939
25°	824	856	930	834	808	395
35°	138	141	132	132	111	94
45°	36	45	45	45	37	26
55°	6	6	11	6	6	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6617.1	6617.1	6617.1	6617.1	6617.1
2.5°	6573.2	6568.7	6571.2	6574.5	6575.8
5°	6402.7	6396.5	6395.2	6408.5	6403.0
7.5°	6058.6	6049.8	6036.5	6066.7	6095.0
10°	5482.3	5472.5	5443.6	5457.9	5481.0
12.5°	4631.4	4599.9	4599.2	4644.7	4638.6
15°	3508.3	3466.1	3489.5	3478.1	3472.0
17.5°	2359.2	2343.0	2374.2	2364.8	2324.2
20°	1697.1	1701.4	1760.8	1730.9	1694.9
22.5°	1238.4	1253.7	1324.2	1247.2	1219.0
25°	824.5	855.7	929.8	833.9	807.6
27.5°	507.1	521.4	596.5	500.6	486.3
30°	315.5	308.3	343.7	295.0	274.8
32.5°	206.9	197.8	209.2	187.8	171.5
35°	138.4	141.3	132.5	131.5	111.1
37.5°	86.4	99.4	87.7	93.6	71.4
40°	55.9	72.1	62.1	68.5	52.7
42.5°	45.8	55.6	51.0	54.3	46.8
45°	36.4	45.1	45.1	45.1	36.7
47.5°	20.2	30.2	38.7	30.9	21.4
50°	11.3	15.3	29.9	15.9	12.0
52.5°	7.8	8.8	20.5	9.1	8.1
55°	5.8	6.2	11.1	6.5	6.2
57.5°	4.5	4.9	5.8	4.9	4.5
60°	3.6	3.6	4.2	3.9	3.6
62.5°	2.6	2.6	2.9	2.6	2.6
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.6	0.6	0.6	1.0
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

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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