

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: P744803

Luminaire Tested: LD4D25D010-EU4DR1515309024-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D25D010-EU4DR1515309024-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2209.9 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
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

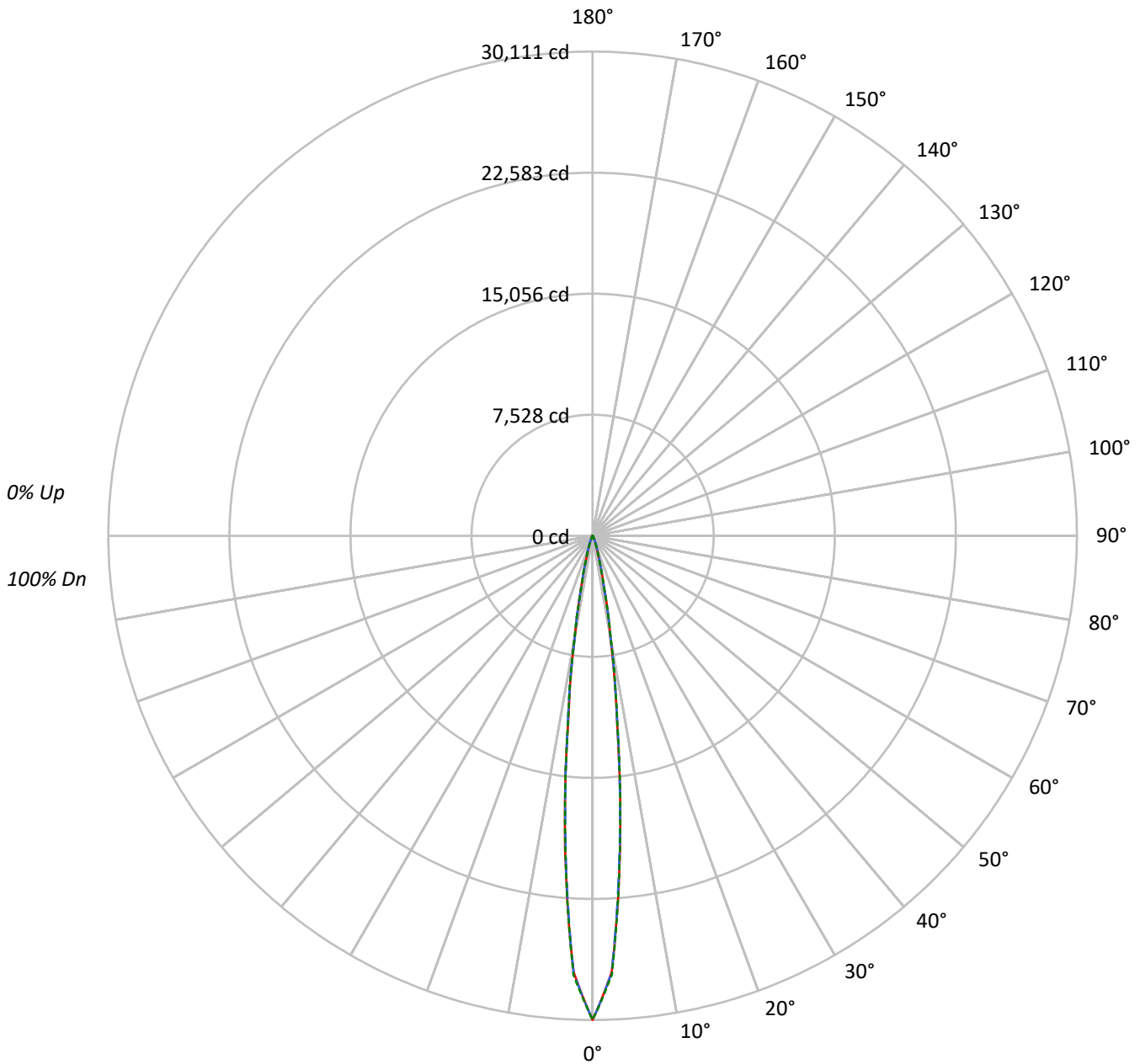


Downlight



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3388099	3388099	3388099
5°	1991002	1965229	1980768
10°	594220	598382	607544
15°	147804	150688	146032
20°	44225	51213	45158
25°	15588	19857	15790
30°	5728	7541	5826
35°	2868	3239	2774
40°	1811	1988	1811
45°	1337	1428	1337
50°	1064	1064	1064
55°	884	884	884
60°	716	716	716
65°	542	542	542
70°	468	468	468
75°	287	287	385
80°	197	197	197
85°	108	108	108

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1428 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1433.3	64.9
10°-20°	589.6	26.7
20°-30°	117.1	5.3
30°-40°	29.2	1.3
40°-50°	15.4	0.7
50°-60°	11.4	0.5
60°-70°	8.0	0.4
70°-80°	4.6	0.2
80°-90°	1.4	0.1
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°	2140.0	96.8
0°-40°	2169.2	98.2
0°-60°	2196.0	99.4
0°-90°	2209.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2209.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	30111	30111	30111	30111	30111	
5°	19591	19390	19337	19471	19490	1431
15°	1702	1734	1735	1704	1681	583
25°	200	227	255	226	203	105
35°	40	42	45	42	38	27
45°	19	19	20	19	19	15
55°	13	13	13	13	13	11
65°	8	8	8	8	8	8
75°	4	4	4	4	5	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	30111.1	30111.1	30111.1	30111.1	30111.1
2.5°	27161.4	27184.3	27193.3	27220.0	27319.5
5°	19590.9	19389.5	19337.3	19471.1	19490.2
7.5°	11604.9	11645.7	11794.8	11828.0	11708.2
10°	6368.4	6420.7	6413.0	6458.9	6511.2
12.5°	3256.9	3216.1	3203.3	3255.6	3182.9
15°	1701.7	1733.6	1734.9	1704.3	1681.3
17.5°	915.2	952.2	1013.4	963.7	887.2
20°	540.5	573.6	625.9	585.1	551.9
22.5°	334.0	360.7	397.7	365.8	339.1
25°	200.1	226.9	254.9	225.6	202.7
27.5°	118.5	141.5	159.3	140.2	117.3
30°	76.5	89.2	100.7	88.0	77.8
32.5°	53.5	58.6	63.7	58.6	53.5
35°	39.5	42.1	44.6	42.1	38.2
37.5°	30.6	33.1	34.4	31.9	29.3
40°	25.5	26.8	28.0	26.8	25.5
42.5°	21.7	22.9	22.9	22.9	21.7
45°	19.1	19.1	20.4	19.1	19.1
47.5°	16.6	16.6	17.8	16.6	16.6
50°	15.3	15.3	15.3	15.3	15.3
52.5°	14.0	14.0	14.0	14.0	14.0
55°	12.7	12.7	12.7	12.7	12.7
57.5°	11.5	11.5	11.5	11.5	11.5
60°	10.2	10.2	10.2	10.2	10.2
62.5°	8.9	8.9	8.9	8.9	8.9
65°	7.6	7.6	7.6	7.6	7.6
67.5°	7.6	7.6	7.6	7.6	7.6
70°	6.4	6.4	6.4	6.4	6.4
72.5°	5.1	5.1	5.1	5.1	5.1
75°	3.8	3.8	3.8	3.8	5.1
77.5°	3.8	3.8	3.8	3.8	3.8
80°	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5
85°	1.3	1.3	1.3	1.3	1.3
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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