

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: P744797

Luminaire Tested: LD4D25D010-EU4DR1515309024-4LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744797  
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-EU4DR1515309024-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1977.4 lumens  
Efficiency: N/A  
Efficacy: 78.8 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

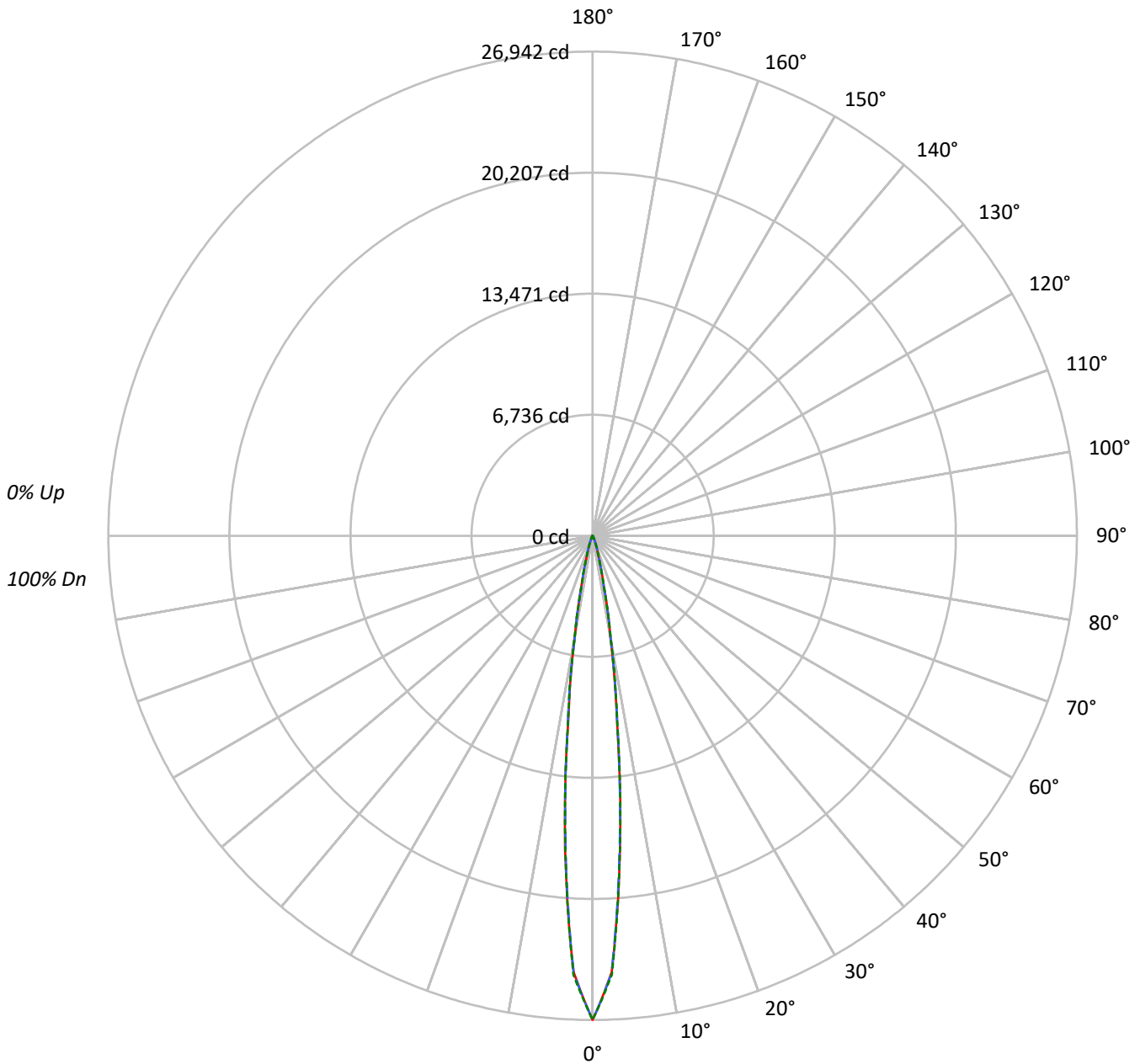


Downlight



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

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

	0°	45°	90°
0°	3031524	3031524	3031524
5°	1781463	1758404	1772306
10°	531685	535408	543601
15°	132248	134828	130667
20°	39570	45821	40412
25°	13952	17769	14123
30°	5122	6747	5212
35°	2571	2898	2484
40°	1619	1782	1619
45°	1197	1274	1197
50°	953	953	953
55°	793	793	793
60°	639	639	639
65°	485	485	485
70°	417	417	417
75°	257	257	348
80°	181	181	181
85°	91	91	91

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1274 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1282.5	64.9
10°-20°	527.5	26.7
20°-30°	104.8	5.3
30°-40°	26.2	1.3
40°-50°	13.7	0.7
50°-60°	10.2	0.5
60°-70°	7.2	0.4
70°-80°	4.1	0.2
80°-90°	1.2	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°	1914.8	96.8
0°-40°	1941.0	98.2
0°-60°	1964.9	99.4
0°-90°	1977.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1977.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26942	26942	26942	26942	26942	
5°	17529	17349	17302	17422	17439	1280
15°	1523	1551	1552	1525	1504	522
25°	179	203	228	202	181	94
35°	35	38	40	38	34	24
45°	17	17	18	17	17	13
55°	11	11	11	11	11	10
65°	7	7	7	7	7	7
75°	3	3	3	3	5	4
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°	26942.1	26942.1	26942.1	26942.1	26942.1
2.5°	24302.9	24323.4	24331.4	24355.3	24444.3
5°	17529.1	17348.9	17302.2	17421.9	17439.0
7.5°	10383.6	10420.1	10553.5	10583.2	10476.0
10°	5698.2	5745.0	5738.1	5779.2	5825.9
12.5°	2914.1	2877.6	2866.2	2913.0	2848.0
15°	1522.6	1551.1	1552.3	1524.9	1504.4
17.5°	818.9	852.0	906.7	862.3	793.8
20°	483.6	513.2	560.0	523.5	493.9
22.5°	298.8	322.8	355.9	327.3	303.4
25°	179.1	203.0	228.1	201.9	181.3
27.5°	106.1	126.6	142.6	125.5	104.9
30°	68.4	79.8	90.1	78.7	69.6
32.5°	47.9	52.5	57.0	52.5	47.9
35°	35.4	37.6	39.9	37.6	34.2
37.5°	27.4	29.7	30.8	28.5	26.2
40°	22.8	24.0	25.1	24.0	22.8
42.5°	19.4	20.5	20.5	20.5	19.4
45°	17.1	17.1	18.2	17.1	17.1
47.5°	14.8	14.8	16.0	14.8	14.8
50°	13.7	13.7	13.7	13.7	13.7
52.5°	12.5	12.5	12.5	12.5	12.5
55°	11.4	11.4	11.4	11.4	11.4
57.5°	10.3	10.3	10.3	10.3	10.3
60°	9.1	9.1	9.1	9.1	9.1
62.5°	8.0	8.0	8.0	8.0	8.0
65°	6.8	6.8	6.8	6.8	6.8
67.5°	6.8	6.8	6.8	6.8	6.8
70°	5.7	5.7	5.7	5.7	5.7
72.5°	4.6	4.6	4.6	4.6	4.6
75°	3.4	3.4	3.4	3.4	4.6
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.1	1.1	1.1	1.1	1.1
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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