

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: P744823

Luminaire Tested: LD4D25D010-EU4DR1515309030-4LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744823  
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-EU4DR1515309030-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2266.6 lumens  
Efficiency: N/A  
Efficacy: 90.3 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



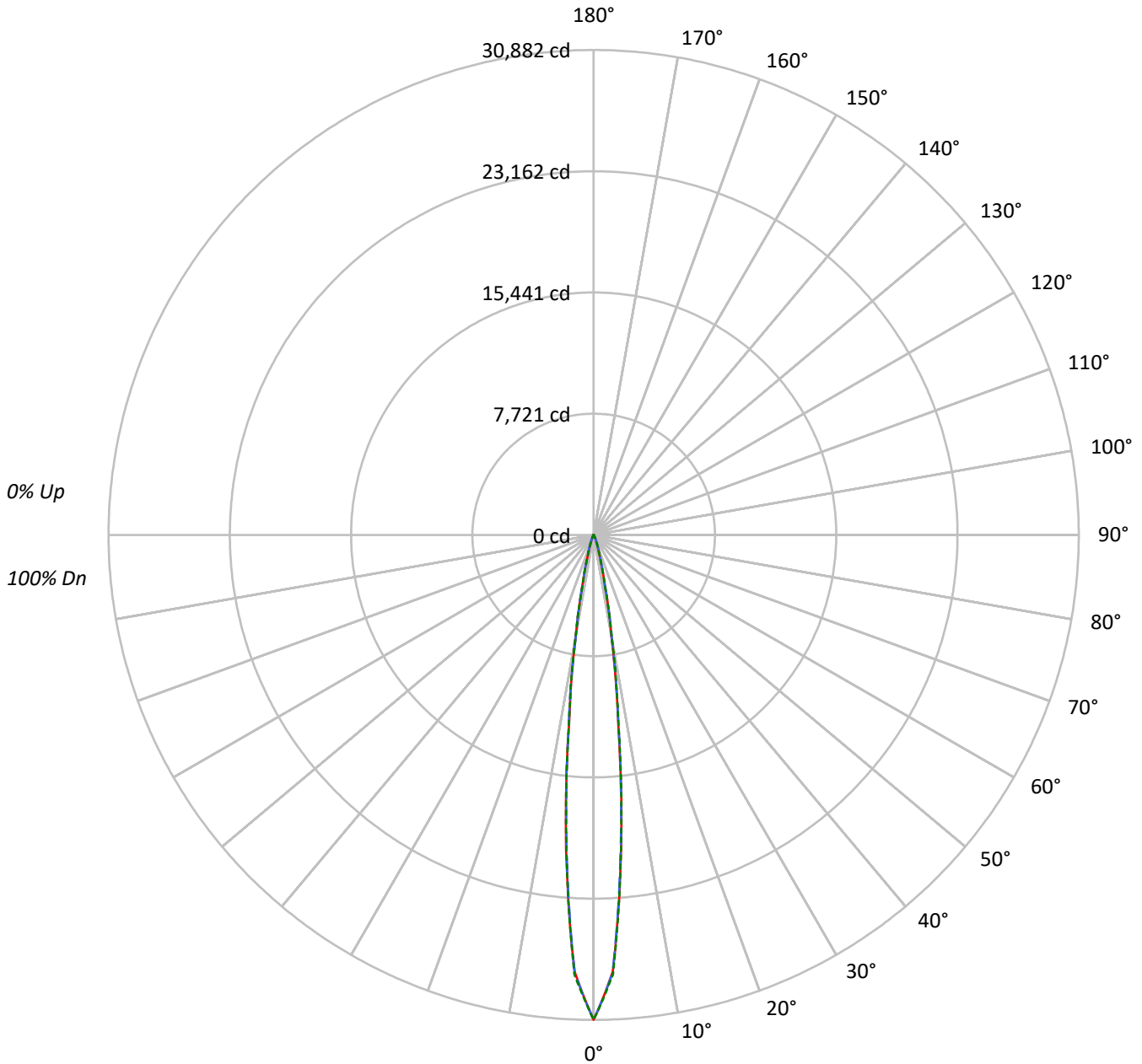
Downlight



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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°	3474796	3474796	3474796
5°	2041958	2015515	2031460
10°	609429	613693	623089
15°	151591	154544	149776
20°	45354	52522	46320
25°	15985	20371	16196
30°	5871	7735	5968
35°	2941	3326	2847
40°	1853	2045	1853
45°	1372	1463	1372
50°	1092	1092	1092
55°	912	912	912
60°	737	737	737
65°	557	557	557
70°	475	475	475
75°	295	295	393
80°	205	205	205
85°	108	108	108

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1463 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1470.0	64.9
10°-20°	604.7	26.7
20°-30°	120.1	5.3
30°-40°	30.0	1.3
40°-50°	15.8	0.7
50°-60°	11.7	0.5
60°-70°	8.2	0.4
70°-80°	4.7	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°	2194.8	96.8
0°-40°	2224.8	98.2
0°-60°	2252.2	99.4
0°-90°	2266.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2266.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	30882	30882	30882	30882	30882	
5°	20092	19886	19832	19969	19989	1467
15°	1745	1778	1779	1748	1724	598
25°	205	233	262	231	208	108
35°	40	43	46	43	39	28
45°	20	20	21	20	20	15
55°	13	13	13	13	13	12
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°	30881.6	30881.6	30881.6	30881.6	30881.6
2.5°	27856.4	27880.0	27889.1	27916.6	28018.6
5°	20092.3	19885.7	19832.1	19969.4	19989.0
7.5°	11901.9	11943.7	12096.7	12130.7	12007.8
10°	6531.4	6585.0	6577.1	6624.2	6677.8
12.5°	3340.2	3298.4	3285.3	3338.9	3264.4
15°	1745.3	1778.0	1779.3	1747.9	1724.4
17.5°	938.7	976.6	1039.3	988.3	909.9
20°	554.3	588.3	641.9	600.1	566.1
22.5°	342.5	370.0	407.9	375.2	347.7
25°	205.2	232.7	261.5	231.4	207.9
27.5°	121.6	145.1	163.4	143.8	120.3
30°	78.4	91.5	103.3	90.2	79.7
32.5°	54.9	60.1	65.4	60.1	54.9
35°	40.5	43.1	45.8	43.1	39.2
37.5°	31.4	34.0	35.3	32.7	30.1
40°	26.1	27.5	28.8	27.5	26.1
42.5°	22.2	23.5	23.5	23.5	22.2
45°	19.6	19.6	20.9	19.6	19.6
47.5°	17.0	17.0	18.3	17.0	17.0
50°	15.7	15.7	15.7	15.7	15.7
52.5°	14.4	14.4	14.4	14.4	14.4
55°	13.1	13.1	13.1	13.1	13.1
57.5°	11.8	11.8	11.8	11.8	11.8
60°	10.5	10.5	10.5	10.5	10.5
62.5°	9.2	9.2	9.2	9.2	9.2
65°	7.8	7.8	7.8	7.8	7.8
67.5°	7.8	7.8	7.8	7.8	7.8
70°	6.5	6.5	6.5	6.5	6.5
72.5°	5.2	5.2	5.2	5.2	5.2
75°	3.9	3.9	3.9	3.9	5.2
77.5°	3.9	3.9	3.9	3.9	3.9
80°	2.6	2.6	2.6	2.6	2.6
82.5°	2.6	2.6	2.6	2.6	2.6
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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