

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: P744872

Luminaire Tested: LD4D25D010-EU4DR1515309050-4LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744872  
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-EU4DR1515309050-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2343.5 lumens  
Efficiency: N/A  
Efficacy: 93.4 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

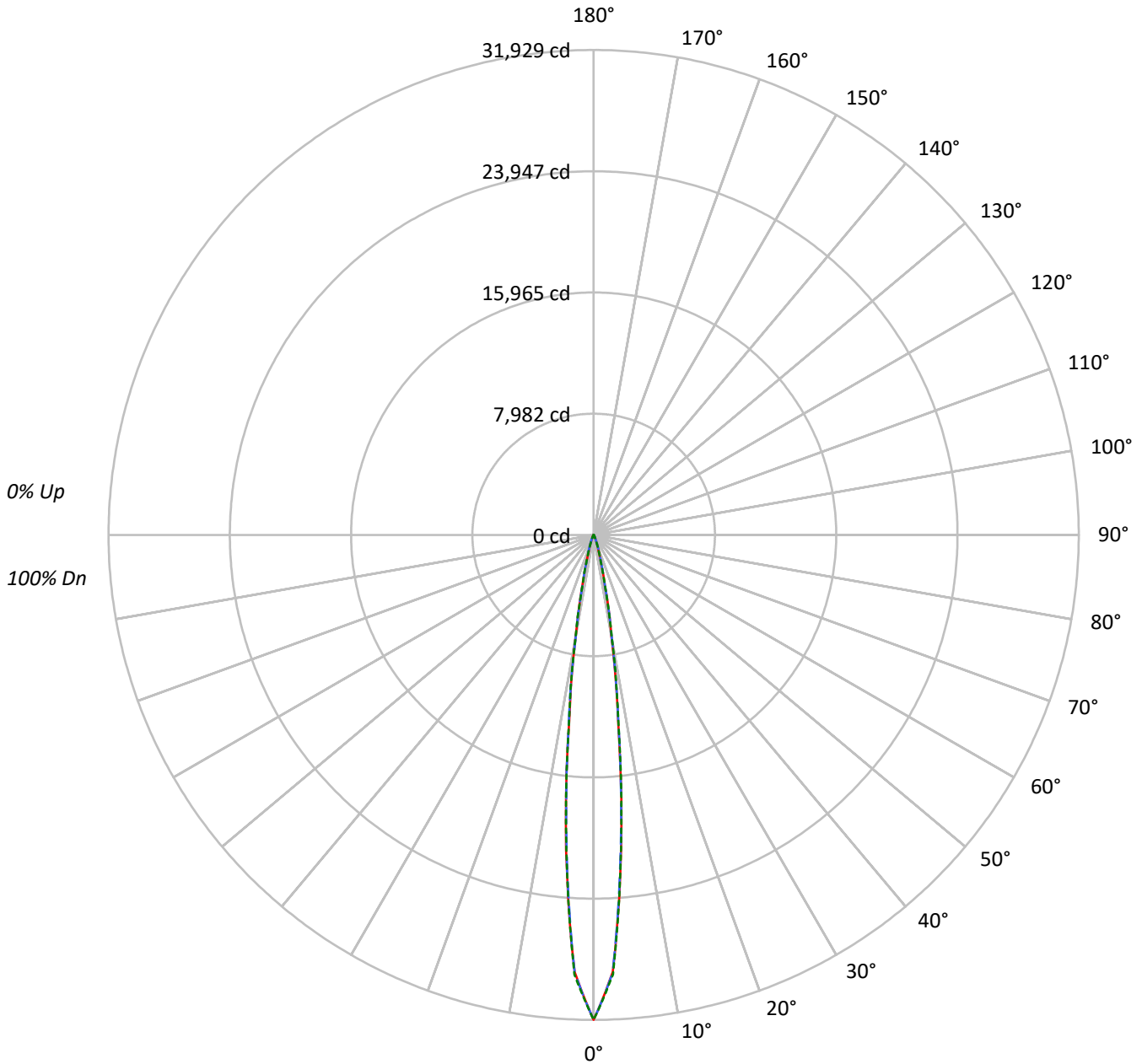


Downlight



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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	87	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°	3592627	3592627	3592627
5°	2111198	2083860	2100344
10°	630097	634510	644224
15°	156733	159782	154848
20°	46893	54306	47891
25°	16531	21057	16741
30°	6073	7997	6178
35°	3043	3435	2941
40°	1917	2109	1917
45°	1421	1512	1421
50°	1126	1126	1126
55°	940	940	940
60°	758	758	758
65°	578	578	578
70°	497	497	497
75°	310	310	408
80°	213	213	213
85°	116	116	116

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1512 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1519.9	64.9
10°-20°	625.2	26.7
20°-30°	124.2	5.3
30°-40°	31.0	1.3
40°-50°	16.3	0.7
50°-60°	12.1	0.5
60°-70°	8.5	0.4
70°-80°	4.9	0.2
80°-90°	1.5	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°	2269.2	96.8
0°-40°	2300.2	98.2
0°-60°	2328.6	99.4
0°-90°	2343.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2343.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	31929	31929	31929	31929	31929	
5°	20774	20560	20505	20647	20667	1517
15°	1804	1838	1840	1807	1783	619
25°	212	241	270	239	215	111
35°	42	45	47	45	40	28
45°	20	20	22	20	20	16
55°	14	14	14	14	14	12
65°	8	8	8	8	8	9
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°	31928.8	31928.8	31928.8	31928.8	31928.8
2.5°	28801.1	28825.4	28834.9	28863.3	28968.7
5°	20773.6	20560.0	20504.6	20646.6	20666.8
7.5°	12305.5	12348.7	12506.9	12542.0	12415.0
10°	6752.9	6808.3	6800.2	6848.8	6904.3
12.5°	3453.5	3410.2	3396.7	3452.1	3375.1
15°	1804.5	1838.3	1839.6	1807.2	1782.8
17.5°	970.5	1009.7	1074.6	1021.9	940.8
20°	573.1	608.2	663.7	620.4	585.3
22.5°	354.1	382.5	421.7	387.9	359.5
25°	212.2	240.6	270.3	239.2	214.9
27.5°	125.7	150.0	169.0	148.7	124.4
30°	81.1	94.6	106.8	93.3	82.5
32.5°	56.8	62.2	67.6	62.2	56.8
35°	41.9	44.6	47.3	44.6	40.5
37.5°	32.4	35.1	36.5	33.8	31.1
40°	27.0	28.4	29.7	28.4	27.0
42.5°	23.0	24.3	24.3	24.3	23.0
45°	20.3	20.3	21.6	20.3	20.3
47.5°	17.6	17.6	18.9	17.6	17.6
50°	16.2	16.2	16.2	16.2	16.2
52.5°	14.9	14.9	14.9	14.9	14.9
55°	13.5	13.5	13.5	13.5	13.5
57.5°	12.2	12.2	12.2	12.2	12.2
60°	10.8	10.8	10.8	10.8	10.8
62.5°	9.5	9.5	9.5	9.5	9.5
65°	8.1	8.1	8.1	8.1	8.1
67.5°	8.1	8.1	8.1	8.1	8.1
70°	6.8	6.8	6.8	6.8	6.8
72.5°	5.4	5.4	5.4	5.4	5.4
75°	4.1	4.1	4.1	4.1	5.4
77.5°	4.1	4.1	4.1	4.1	4.1
80°	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7
85°	1.4	1.4	1.4	1.4	1.4
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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