

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: P744808

Luminaire Tested: LD4D25D010-EU4DR1515309027-4LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744808  
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-EU4DR1515309027-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2134.1 lumens  
Efficiency: N/A  
Efficacy: 85.0 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

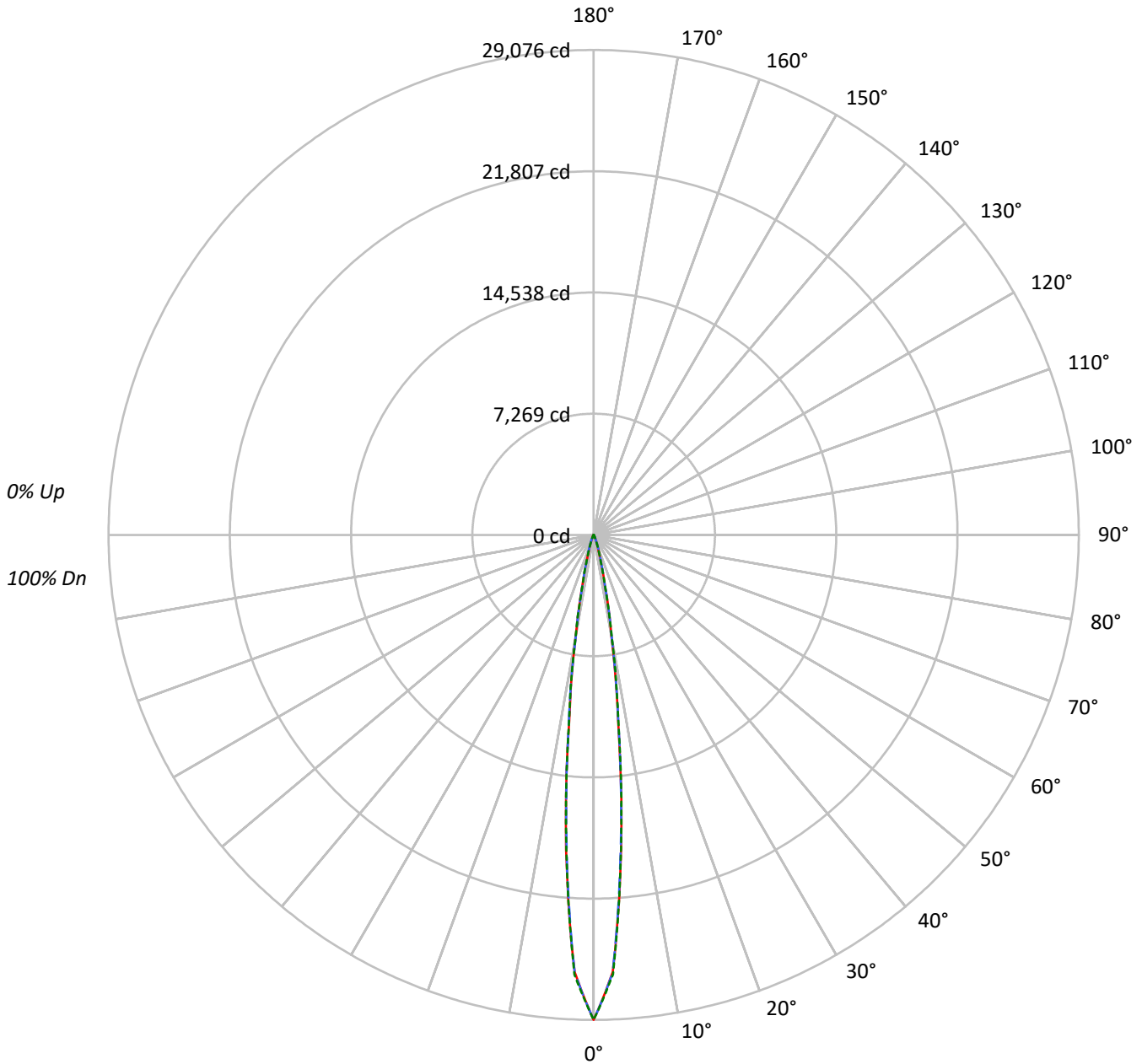


Downlight



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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	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°	3271653	3271653	3271653
5°	1922575	1897676	1912697
10°	573795	577817	586662
15°	142723	145503	141012
20°	42703	49454	43612
25°	15058	19179	15245
30°	5534	7278	5624
35°	2774	3130	2680
40°	1747	1924	1747
45°	1295	1379	1295
50°	1029	1029	1029
55°	856	856	856
60°	688	688	688
65°	528	528	528
70°	453	453	453
75°	280	280	370
80°	197	197	197
85°	100	100	100

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1379 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1384.1	64.9
10°-20°	569.3	26.7
20°-30°	113.1	5.3
30°-40°	28.2	1.3
40°-50°	14.8	0.7
50°-60°	11.0	0.5
60°-70°	7.8	0.4
70°-80°	4.4	0.2
80°-90°	1.3	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°	2066.5	96.8
0°-40°	2094.7	98.2
0°-60°	2120.5	99.4
0°-90°	2134.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2134.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	29076	29076	29076	29076	29076	
5°	18918	18723	18673	18802	18820	1381
15°	1643	1674	1675	1646	1624	563
25°	193	219	246	218	196	102
35°	38	41	43	41	37	26
45°	18	18	20	18	18	14
55°	12	12	12	12	12	11
65°	7	7	7	7	7	8
75°	4	4	4	4	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°	29076.2	29076.2	29076.2	29076.2	29076.2
2.5°	26227.9	26250.0	26258.6	26284.5	26380.5
5°	18917.6	18723.1	18672.6	18801.9	18820.4
7.5°	11206.0	11245.4	11389.5	11421.5	11305.8
10°	6149.5	6200.0	6192.6	6236.9	6287.4
12.5°	3144.9	3105.5	3093.2	3143.7	3073.5
15°	1643.2	1674.0	1675.2	1645.7	1623.5
17.5°	883.8	919.5	978.6	930.6	856.7
20°	521.9	553.9	604.4	565.0	533.0
22.5°	322.5	348.3	384.0	353.3	327.4
25°	193.3	219.1	246.2	217.9	195.7
27.5°	114.5	136.6	153.9	135.4	113.2
30°	73.9	86.2	97.2	84.9	75.1
32.5°	51.7	56.6	61.5	56.6	51.7
35°	38.2	40.6	43.1	40.6	36.9
37.5°	29.5	32.0	33.2	30.8	28.3
40°	24.6	25.8	27.1	25.8	24.6
42.5°	20.9	22.2	22.2	22.2	20.9
45°	18.5	18.5	19.7	18.5	18.5
47.5°	16.0	16.0	17.2	16.0	16.0
50°	14.8	14.8	14.8	14.8	14.8
52.5°	13.5	13.5	13.5	13.5	13.5
55°	12.3	12.3	12.3	12.3	12.3
57.5°	11.1	11.1	11.1	11.1	11.1
60°	9.8	9.8	9.8	9.8	9.8
62.5°	8.6	8.6	8.6	8.6	8.6
65°	7.4	7.4	7.4	7.4	7.4
67.5°	7.4	7.4	7.4	7.4	7.4
70°	6.2	6.2	6.2	6.2	6.2
72.5°	4.9	4.9	4.9	4.9	4.9
75°	3.7	3.7	3.7	3.7	4.9
77.5°	3.7	3.7	3.7	3.7	3.7
80°	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5
85°	1.2	1.2	1.2	1.2	1.2
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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