

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: P744815

Luminaire Tested: LD4D25D010-EU4DR1515309027-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744815  
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-EU4DR1515309027-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2302.6 lumens  
Efficiency: N/A  
Efficacy: 91.7 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 (A<sub>in</sub>): 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

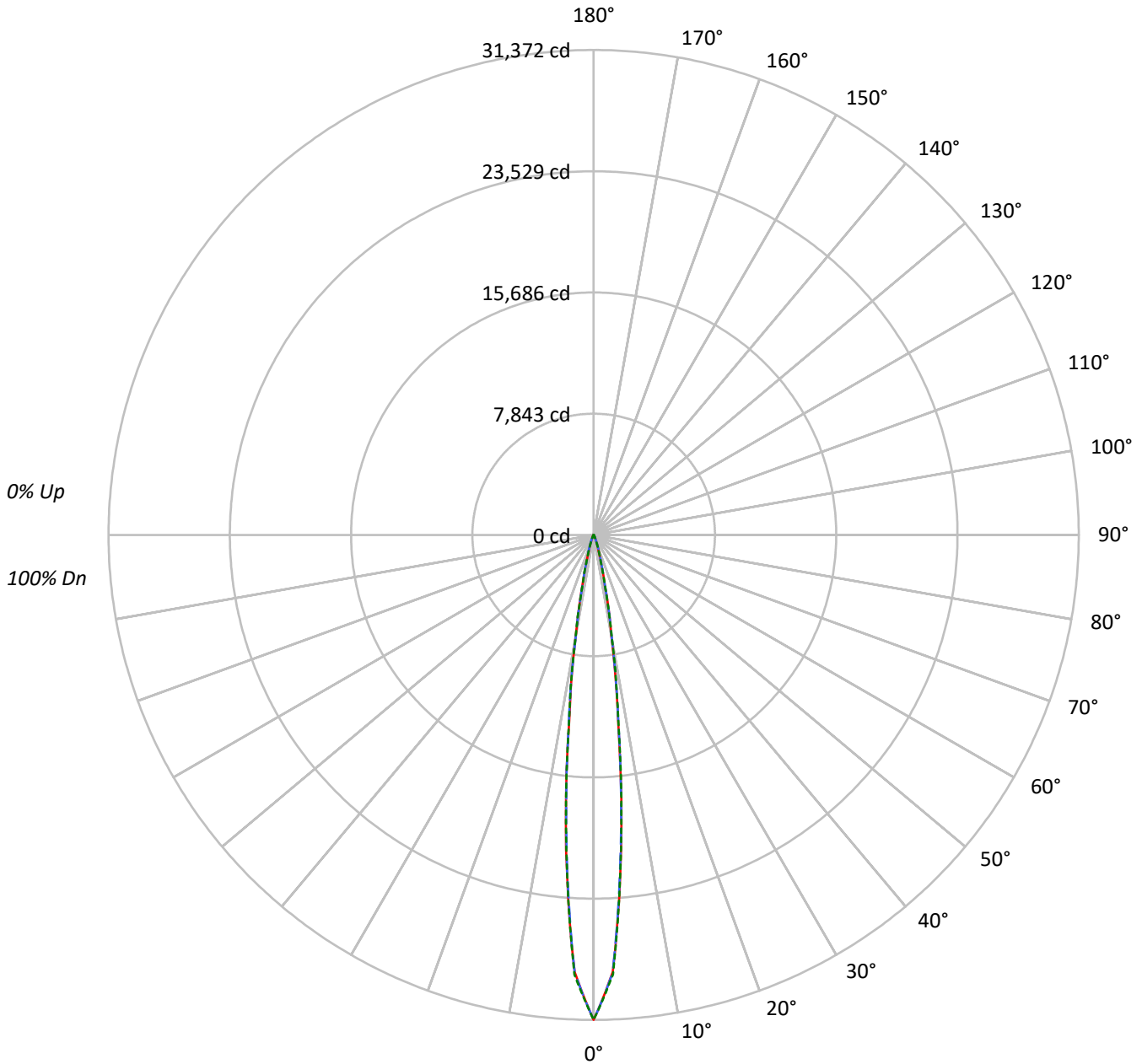


Downlight



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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°	3529931	3529931	3529931
5°	2074358	2047497	2063697
10°	619096	623435	632980
15°	153997	156994	152147
20°	46074	53357	47056
25°	16242	20690	16453
30°	5968	7855	6065
35°	2992	3377	2890
40°	1889	2074	1889
45°	1393	1484	1393
50°	1106	1106	1106
55°	926	926	926
60°	744	744	744
65°	571	571	571
70°	483	483	483
75°	302	302	401
80°	213	213	213
85°	108	108	108

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1484 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1493.4	64.9
10°-20°	614.3	26.7
20°-30°	122.0	5.3
30°-40°	30.5	1.3
40°-50°	16.0	0.7
50°-60°	11.9	0.5
60°-70°	8.4	0.4
70°-80°	4.8	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°	2229.6	96.8
0°-40°	2260.1	98.2
0°-60°	2288.0	99.4
0°-90°	2302.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2302.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	31372	31372	31372	31372	31372	
5°	20411	20201	20147	20286	20306	1491
15°	1773	1806	1808	1776	1752	608
25°	208	236	266	235	211	110
35°	41	44	46	44	40	28
45°	20	20	21	20	20	16
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°	31371.6	31371.6	31371.6	31371.6	31371.6
2.5°	28298.5	28322.4	28331.7	28359.6	28463.2
5°	20411.1	20201.3	20146.8	20286.2	20306.2
7.5°	12090.7	12133.2	12288.6	12323.1	12198.3
10°	6635.0	6689.5	6681.5	6729.3	6783.8
12.5°	3393.2	3350.7	3337.4	3391.9	3316.2
15°	1773.0	1806.2	1807.5	1775.6	1751.7
17.5°	953.6	992.1	1055.8	1004.0	924.3
20°	563.1	597.6	652.1	609.6	575.1
22.5°	348.0	375.8	414.4	381.2	353.3
25°	208.5	236.4	265.6	235.1	211.2
27.5°	123.5	147.4	166.0	146.1	122.2
30°	79.7	93.0	104.9	91.6	81.0
32.5°	55.8	61.1	66.4	61.1	55.8
35°	41.2	43.8	46.5	43.8	39.8
37.5°	31.9	34.5	35.9	33.2	30.5
40°	26.6	27.9	29.2	27.9	26.6
42.5°	22.6	23.9	23.9	23.9	22.6
45°	19.9	19.9	21.2	19.9	19.9
47.5°	17.3	17.3	18.6	17.3	17.3
50°	15.9	15.9	15.9	15.9	15.9
52.5°	14.6	14.6	14.6	14.6	14.6
55°	13.3	13.3	13.3	13.3	13.3
57.5°	12.0	12.0	12.0	12.0	12.0
60°	10.6	10.6	10.6	10.6	10.6
62.5°	9.3	9.3	9.3	9.3	9.3
65°	8.0	8.0	8.0	8.0	8.0
67.5°	8.0	8.0	8.0	8.0	8.0
70°	6.6	6.6	6.6	6.6	6.6
72.5°	5.3	5.3	5.3	5.3	5.3
75°	4.0	4.0	4.0	4.0	5.3
77.5°	4.0	4.0	4.0	4.0	4.0
80°	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7
85°	1.3	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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(END OF REPORT)