

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P742878

Luminaire Tested: LD4D15D010-EU4DR1515309024-4LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742878  
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: LD4D15D010-EU4DR1515309024-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1105.7 lumens  
Efficiency: N/A  
Efficacy: 70.0 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): 15.8  
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

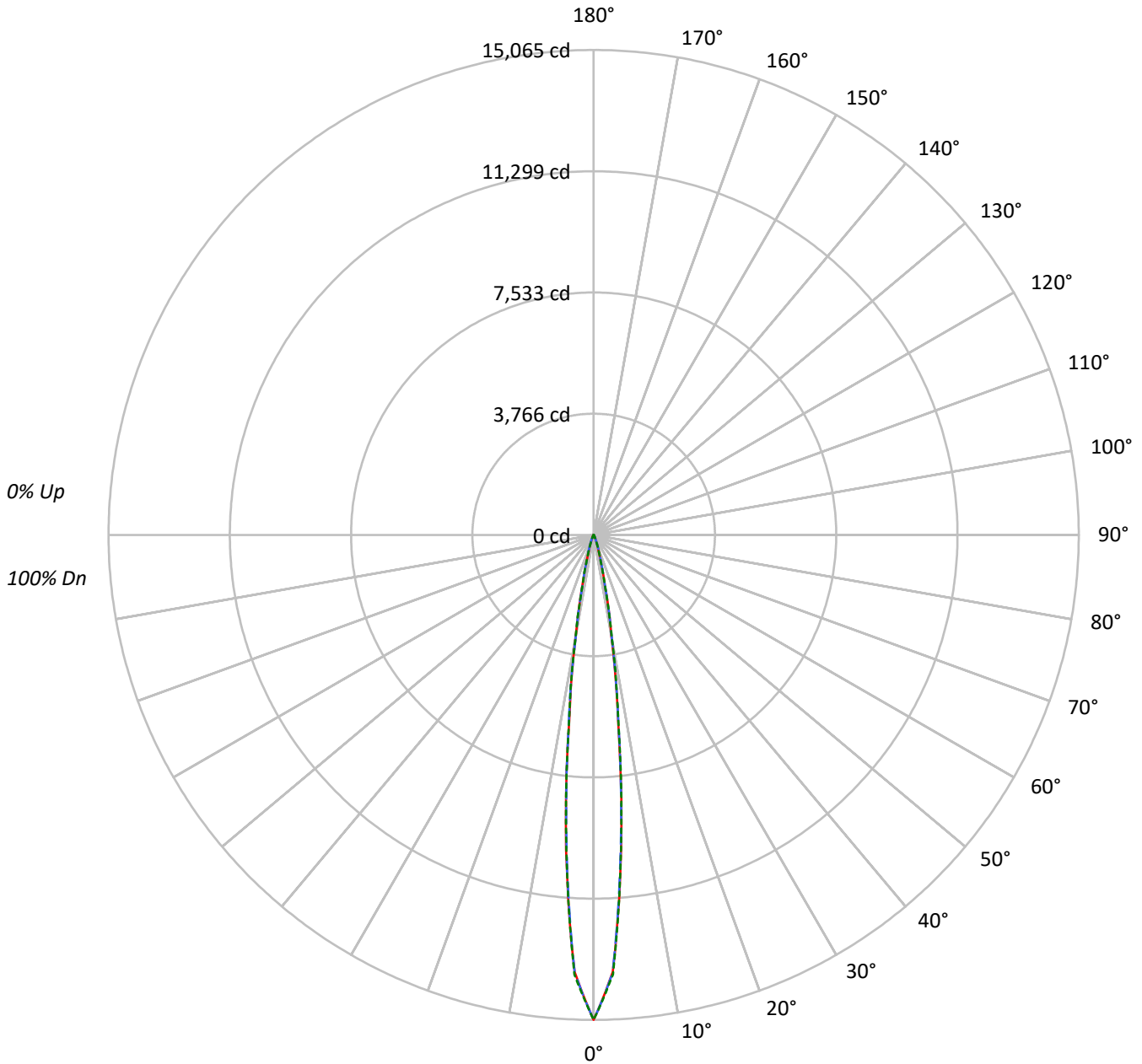


Downlight



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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°	1695158	1695158	1695158
5°	996156	983260	991034
10°	297306	299387	303968
15°	73950	75392	73064
20°	22125	25619	22599
25°	7798	9940	7899
30°	2868	3774	2913
35°	1438	1619	1387
40°	909	994	909
45°	672	714	672
50°	535	535	535
55°	445	445	445
60°	358	358	358
65°	271	271	271
70°	234	234	234
75°	144	144	197
80°	102	102	102
85°	50	50	50

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 714 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	717.1	64.9
10°-20°	295.0	26.7
20°-30°	58.6	5.3
30°-40°	14.6	1.3
40°-50°	7.7	0.7
50°-60°	5.7	0.5
60°-70°	4.0	0.4
70°-80°	2.3	0.2
80°-90°	0.7	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°	1070.7	96.8
0°-40°	1085.3	98.2
0°-60°	1098.7	99.4
0°-90°	1105.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1105.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15065	15065	15065	15065	15065	
5°	9802	9701	9675	9742	9752	716
15°	851	867	868	853	841	292
25°	100	114	128	113	101	53
35°	20	21	22	21	19	13
45°	10	10	10	10	10	7
55°	6	6	6	6	6	6
65°	4	4	4	4	4	4
75°	2	2	2	2	3	2
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°	15065.4	15065.4	15065.4	15065.4	15065.4
2.5°	13589.6	13601.1	13605.5	13618.9	13668.7
5°	9801.9	9701.1	9675.0	9741.9	9751.5
7.5°	5806.3	5826.7	5901.3	5917.9	5857.9
10°	3186.3	3212.4	3208.6	3231.6	3257.7
12.5°	1629.5	1609.1	1602.7	1628.9	1592.5
15°	851.4	867.4	868.0	852.7	841.2
17.5°	457.9	476.4	507.0	482.2	443.9
20°	270.4	287.0	313.1	292.7	276.2
22.5°	167.1	180.5	199.0	183.0	169.6
25°	100.1	113.5	127.6	112.9	101.4
27.5°	59.3	70.8	79.7	70.2	58.7
30°	38.3	44.6	50.4	44.0	38.9
32.5°	26.8	29.3	31.9	29.3	26.8
35°	19.8	21.0	22.3	21.0	19.1
37.5°	15.3	16.6	17.2	15.9	14.7
40°	12.8	13.4	14.0	13.4	12.8
42.5°	10.8	11.5	11.5	11.5	10.8
45°	9.6	9.6	10.2	9.6	9.6
47.5°	8.3	8.3	8.9	8.3	8.3
50°	7.7	7.7	7.7	7.7	7.7
52.5°	7.0	7.0	7.0	7.0	7.0
55°	6.4	6.4	6.4	6.4	6.4
57.5°	5.7	5.7	5.7	5.7	5.7
60°	5.1	5.1	5.1	5.1	5.1
62.5°	4.5	4.5	4.5	4.5	4.5
65°	3.8	3.8	3.8	3.8	3.8
67.5°	3.8	3.8	3.8	3.8	3.8
70°	3.2	3.2	3.2	3.2	3.2
72.5°	2.6	2.6	2.6	2.6	2.6
75°	1.9	1.9	1.9	1.9	2.6
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - 90°-270°

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(END OF REPORT)