

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: P742904

Luminaire Tested: LD4D15D010-EU4DR1515309030-4LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742904  
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-EU4DR1515309030-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1267.4 lumens  
Efficiency: N/A  
Efficacy: 80.2 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 (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

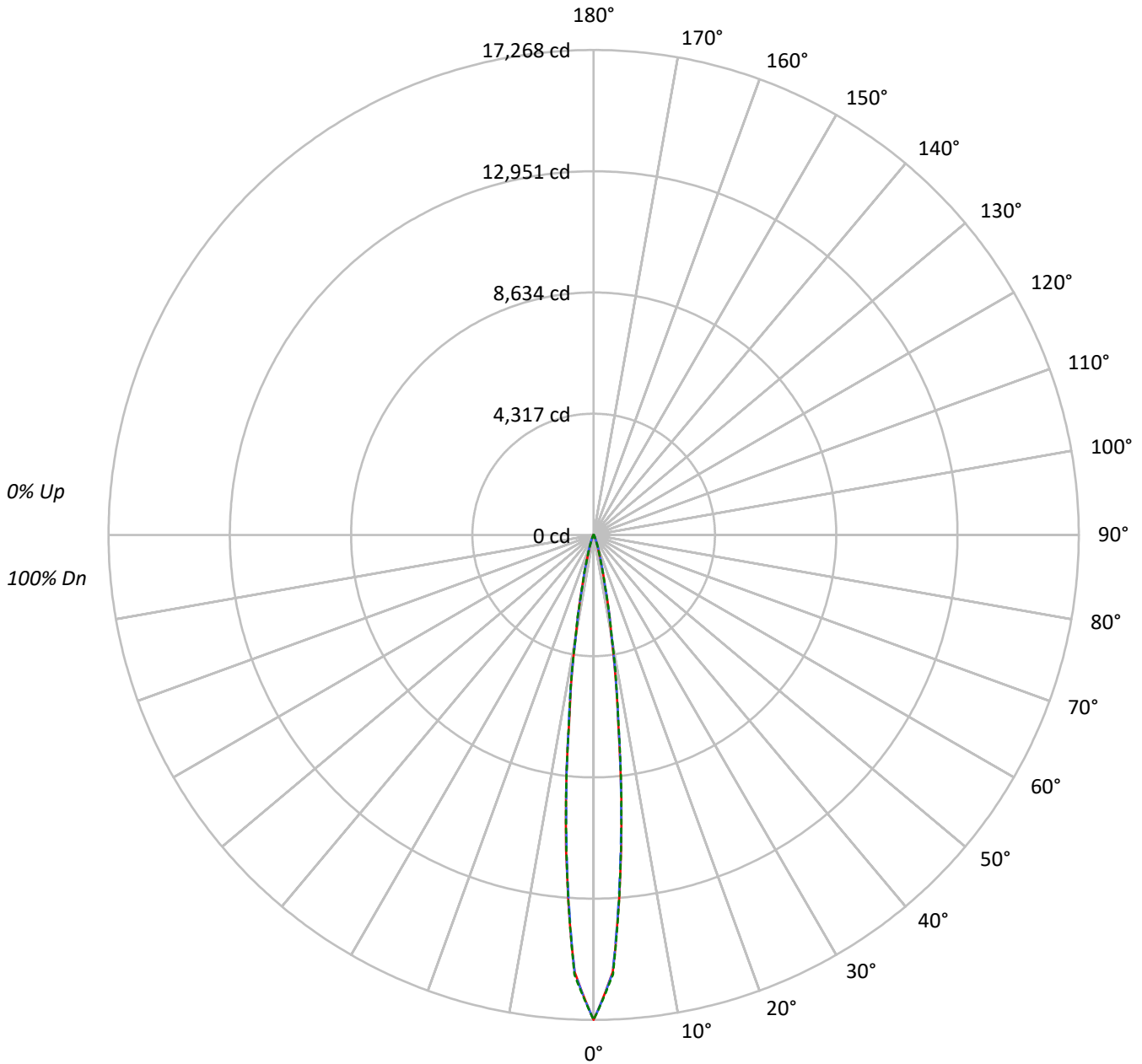


Downlight



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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	88	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°	1943028	1943028	1943028
5°	1141811	1127024	1135947
10°	340778	343167	348420
15°	84764	86414	83747
20°	25365	29366	25897
25°	8943	11389	9052
30°	3287	4328	3340
35°	1648	1859	1590
40°	1037	1143	1037
45°	770	819	770
50°	612	612	612
55°	508	508	508
60°	407	407	407
65°	314	314	314
70°	271	271	271
75°	166	166	219
80°	118	118	118
85°	58	58	58

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 819 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	822.0	64.9
10°-20°	338.1	26.7
20°-30°	67.2	5.3
30°-40°	16.8	1.3
40°-50°	8.8	0.7
50°-60°	6.5	0.5
60°-70°	4.6	0.4
70°-80°	2.6	0.2
80°-90°	0.8	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°	1227.3	96.8
0°-40°	1244.0	98.2
0°-60°	1259.4	99.4
0°-90°	1267.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1267.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17268	17268	17268	17268	17268	
5°	11235	11120	11090	11166	11177	820
15°	976	994	995	977	964	335
25°	115	130	146	129	116	60
35°	23	24	26	24	22	15
45°	11	11	12	11	11	9
55°	7	7	7	7	7	7
65°	4	4	4	4	4	5
75°	2	2	2	2	3	3
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°	17268.3	17268.3	17268.3	17268.3	17268.3
2.5°	15576.7	15589.8	15594.9	15610.3	15667.3
5°	11235.1	11119.6	11089.6	11166.4	11177.4
7.5°	6655.2	6678.6	6764.2	6783.2	6714.5
10°	3652.2	3682.2	3677.8	3704.1	3734.1
12.5°	1867.8	1844.4	1837.1	1867.0	1825.4
15°	975.9	994.2	994.9	977.4	964.2
17.5°	524.9	546.1	581.2	552.7	508.8
20°	310.0	329.0	358.9	335.5	316.5
22.5°	191.5	206.9	228.1	209.8	194.5
25°	114.8	130.1	146.2	129.4	116.2
27.5°	68.0	81.1	91.4	80.4	67.3
30°	43.9	51.2	57.8	50.4	44.6
32.5°	30.7	33.6	36.6	33.6	30.7
35°	22.7	24.1	25.6	24.1	21.9
37.5°	17.5	19.0	19.7	18.3	16.8
40°	14.6	15.4	16.1	15.4	14.6
42.5°	12.4	13.2	13.2	13.2	12.4
45°	11.0	11.0	11.7	11.0	11.0
47.5°	9.5	9.5	10.2	9.5	9.5
50°	8.8	8.8	8.8	8.8	8.8
52.5°	8.0	8.0	8.0	8.0	8.0
55°	7.3	7.3	7.3	7.3	7.3
57.5°	6.6	6.6	6.6	6.6	6.6
60°	5.8	5.8	5.8	5.8	5.8
62.5°	5.1	5.1	5.1	5.1	5.1
65°	4.4	4.4	4.4	4.4	4.4
67.5°	4.4	4.4	4.4	4.4	4.4
70°	3.7	3.7	3.7	3.7	3.7
72.5°	2.9	2.9	2.9	2.9	2.9
75°	2.2	2.2	2.2	2.2	2.9
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	0.7	0.7	0.7	0.7	0.7
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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