

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: P742919

Luminaire Tested: LD4D15D010-EU4DR1515309035-4LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742919  
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-EU4DR1515309035-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1386.7 lumens  
Efficiency: N/A  
Efficacy: 87.8 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



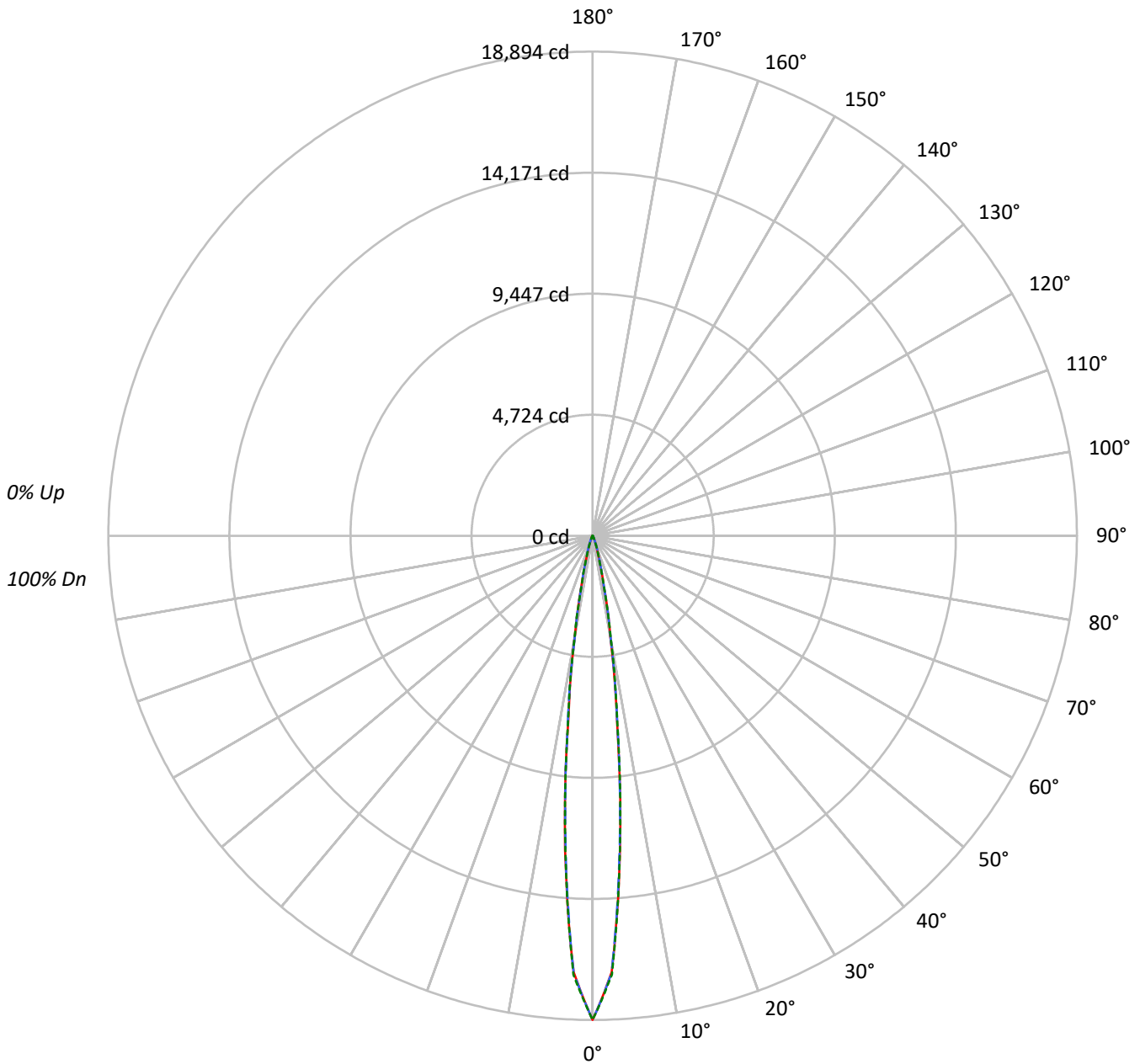
Downlight



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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°	2125941	2125941	2125941
5°	1249304	1233124	1242881
10°	372857	375470	381217
15°	92746	94552	91634
20°	27746	32132	28335
25°	9784	12464	9909
30°	3594	4732	3654
35°	1801	2033	1743
40°	1136	1250	1136
45°	840	896	840
50°	668	668	668
55°	557	557	557
60°	449	449	449
65°	343	343	343
70°	293	293	293
75°	181	181	242
80°	126	126	126
85°	66	66	66

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 896 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	899.4	64.9
10°-20°	369.9	26.7
20°-30°	73.5	5.3
30°-40°	18.3	1.3
40°-50°	9.6	0.7
50°-60°	7.1	0.5
60°-70°	5.0	0.4
70°-80°	2.9	0.2
80°-90°	0.9	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°	1342.8	96.8
0°-40°	1361.2	98.2
0°-60°	1378.0	99.4
0°-90°	1386.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1386.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18894	18894	18894	18894	18894	
5°	12293	12166	12134	12218	12230	898
15°	1068	1088	1089	1069	1055	366
25°	126	142	160	142	127	66
35°	25	26	28	26	24	17
45°	12	12	13	12	12	9
55°	8	8	8	8	8	7
65°	5	5	5	5	5	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°	18893.9	18893.9	18893.9	18893.9	18893.9
2.5°	17043.0	17057.4	17063.0	17079.8	17142.2
5°	12292.8	12166.4	12133.6	12217.6	12229.6
7.5°	7281.8	7307.4	7400.9	7421.7	7346.5
10°	3996.0	4028.8	4024.0	4052.8	4085.6
12.5°	2043.6	2018.0	2010.0	2042.8	1997.2
15°	1067.8	1087.8	1088.6	1069.4	1055.0
17.5°	574.3	597.5	635.9	604.7	556.7
20°	339.1	359.9	392.7	367.1	346.3
22.5°	209.6	226.4	249.6	229.6	212.8
25°	125.6	142.4	160.0	141.6	127.2
27.5°	74.4	88.8	100.0	88.0	73.6
30°	48.0	56.0	63.2	55.2	48.8
32.5°	33.6	36.8	40.0	36.8	33.6
35°	24.8	26.4	28.0	26.4	24.0
37.5°	19.2	20.8	21.6	20.0	18.4
40°	16.0	16.8	17.6	16.8	16.0
42.5°	13.6	14.4	14.4	14.4	13.6
45°	12.0	12.0	12.8	12.0	12.0
47.5°	10.4	10.4	11.2	10.4	10.4
50°	9.6	9.6	9.6	9.6	9.6
52.5°	8.8	8.8	8.8	8.8	8.8
55°	8.0	8.0	8.0	8.0	8.0
57.5°	7.2	7.2	7.2	7.2	7.2
60°	6.4	6.4	6.4	6.4	6.4
62.5°	5.6	5.6	5.6	5.6	5.6
65°	4.8	4.8	4.8	4.8	4.8
67.5°	4.8	4.8	4.8	4.8	4.8
70°	4.0	4.0	4.0	4.0	4.0
72.5°	3.2	3.2	3.2	3.2	3.2
75°	2.4	2.4	2.4	2.4	3.2
77.5°	2.4	2.4	2.4	2.4	2.4
80°	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8
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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