

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: P742944

Luminaire Tested: LD4D15D010-EU4DR1515309050-4LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742944  
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-EU4DR1515309050-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1408.2 lumens  
Efficiency: N/A  
Efficacy: 89.1 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



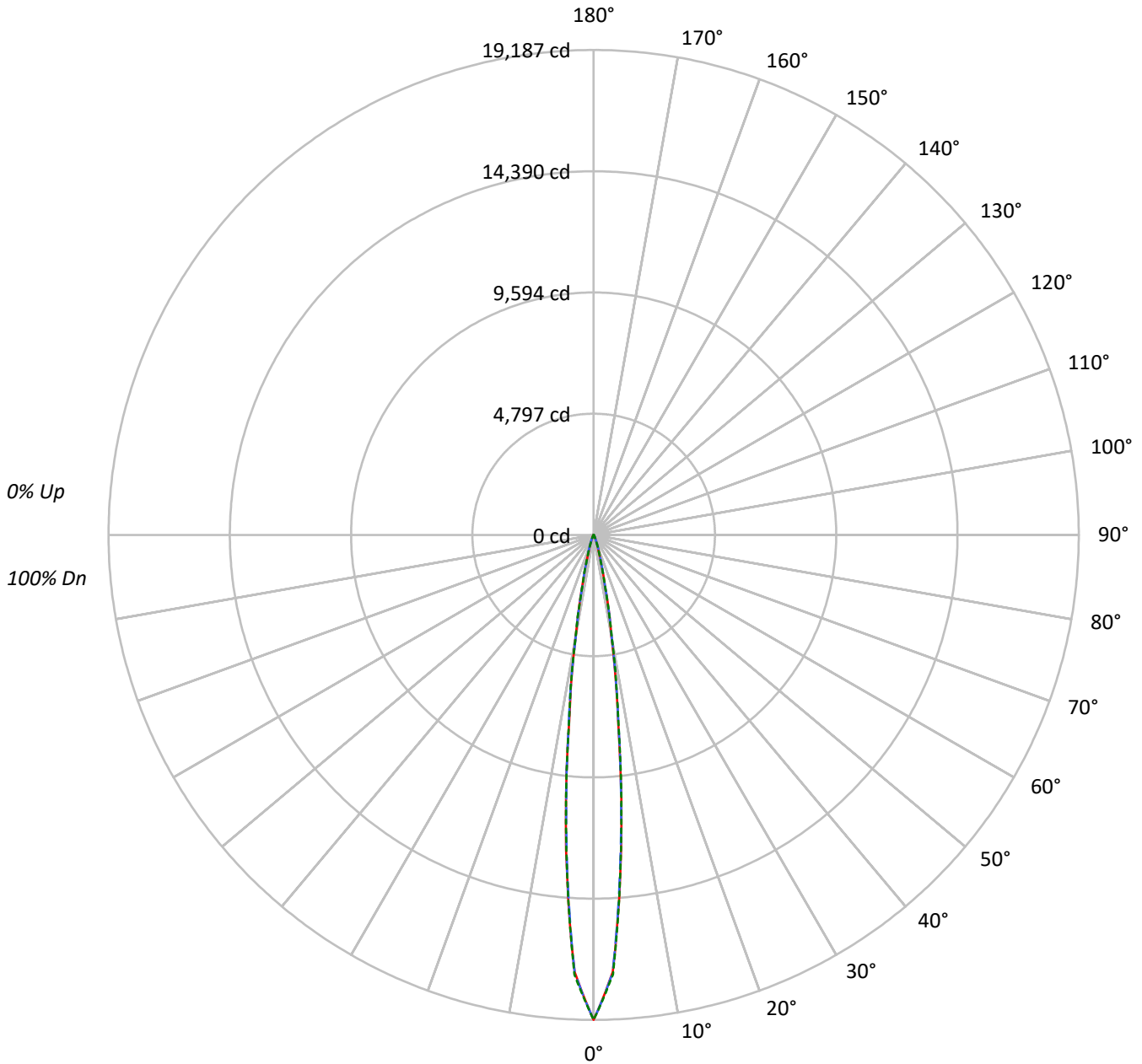
Downlight



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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°	2158954	2158954	2158954
5°	1268705	1252282	1262180
10°	378652	381301	387133
15°	94188	96020	93058
20°	28180	32631	28777
25°	9932	12659	10065
30°	3647	4807	3707
35°	1830	2062	1772
40°	1150	1271	1150
45°	854	910	854
50°	675	675	675
55°	564	564	564
60°	456	456	456
65°	350	350	350
70°	300	300	300
75°	181	181	242
80°	126	126	126
85°	66	66	66

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 910 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	913.4	64.9
10°-20°	375.7	26.7
20°-30°	74.6	5.3
30°-40°	18.6	1.3
40°-50°	9.8	0.7
50°-60°	7.2	0.5
60°-70°	5.1	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°	1363.7	96.8
0°-40°	1382.3	98.2
0°-60°	1399.3	99.4
0°-90°	1408.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1408.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19187	19187	19187	19187	19187	
5°	12484	12355	12322	12407	12420	912
15°	1084	1105	1106	1086	1071	372
25°	128	145	162	144	129	67
35°	25	27	28	27	24	17
45°	12	12	13	12	12	10
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°	19187.3	19187.3	19187.3	19187.3	19187.3
2.5°	17307.7	17322.4	17328.0	17345.1	17408.5
5°	12483.7	12355.4	12322.1	12407.3	12419.5
7.5°	7394.9	7420.9	7515.9	7537.0	7460.7
10°	4058.1	4091.4	4086.5	4115.7	4149.0
12.5°	2075.3	2049.3	2041.2	2074.5	2028.2
15°	1084.4	1104.7	1105.5	1086.0	1071.4
17.5°	583.2	606.8	645.8	614.1	565.3
20°	344.4	365.5	398.8	372.8	351.7
22.5°	212.8	229.9	253.4	233.1	216.1
25°	127.5	144.6	162.5	143.8	129.2
27.5°	75.5	90.2	101.5	89.3	74.7
30°	48.7	56.9	64.2	56.0	49.5
32.5°	34.1	37.4	40.6	37.4	34.1
35°	25.2	26.8	28.4	26.8	24.4
37.5°	19.5	21.1	21.9	20.3	18.7
40°	16.2	17.1	17.9	17.1	16.2
42.5°	13.8	14.6	14.6	14.6	13.8
45°	12.2	12.2	13.0	12.2	12.2
47.5°	10.6	10.6	11.4	10.6	10.6
50°	9.7	9.7	9.7	9.7	9.7
52.5°	8.9	8.9	8.9	8.9	8.9
55°	8.1	8.1	8.1	8.1	8.1
57.5°	7.3	7.3	7.3	7.3	7.3
60°	6.5	6.5	6.5	6.5	6.5
62.5°	5.7	5.7	5.7	5.7	5.7
65°	4.9	4.9	4.9	4.9	4.9
67.5°	4.9	4.9	4.9	4.9	4.9
70°	4.1	4.1	4.1	4.1	4.1
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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