

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: P741936

Luminaire Tested: LD4D10D010-EU4DR150210IC9050-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741936  
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: LD4D10D010-EU4DR150210IC9050-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1139.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 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): 11.7  
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

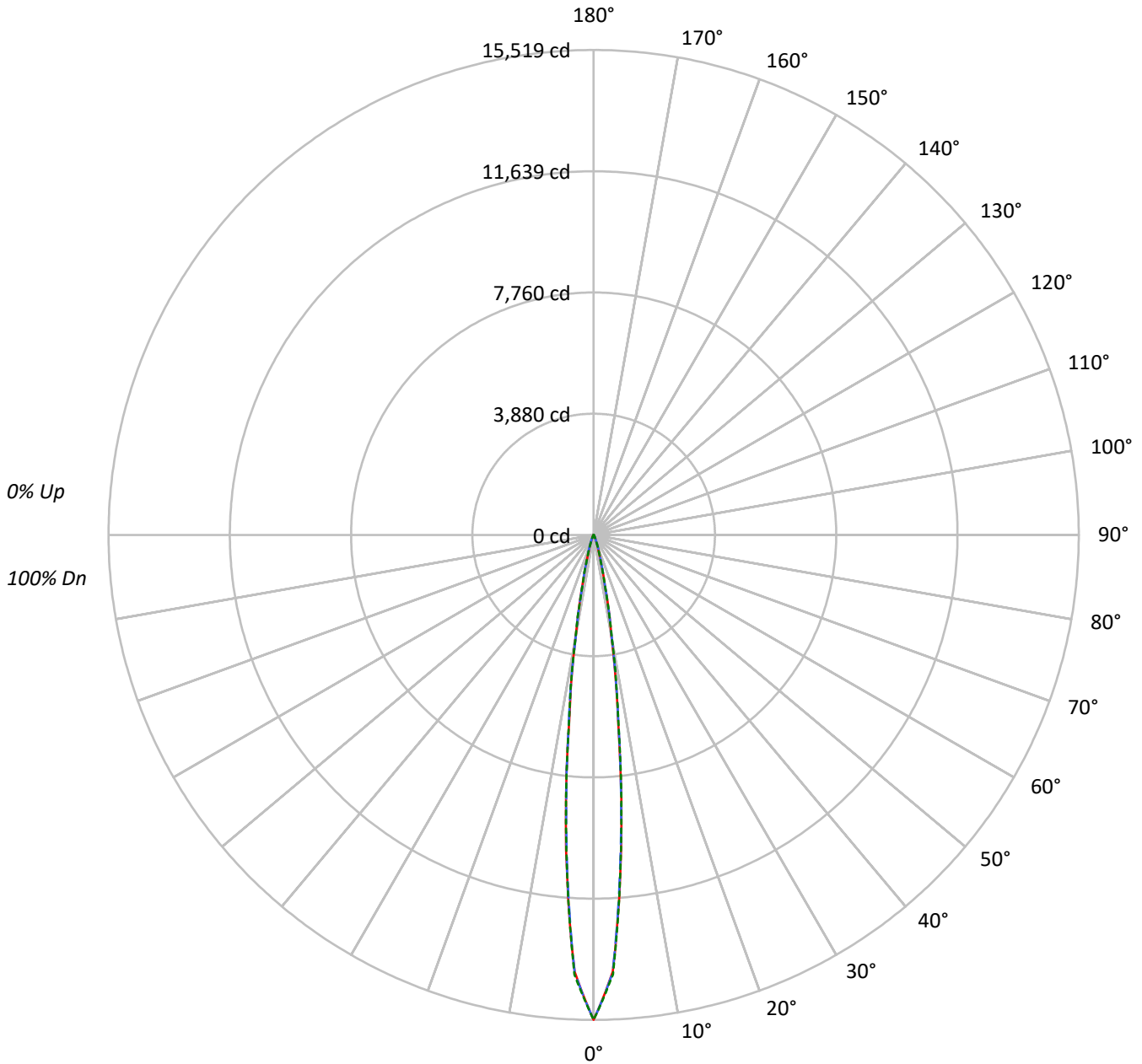


Downlight



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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°	1746152	1746152	1746152
5°	1026127	1012834	1020852
10°	306254	308391	313112
15°	76173	77659	75261
20°	22788	26396	23279
25°	8032	10236	8141
30°	2950	3886	3003
35°	1481	1670	1431
40°	930	1030	930
45°	693	735	693
50°	549	549	549
55°	459	459	459
60°	372	372	372
65°	278	278	278
70°	241	241	241
75°	151	151	197
80°	102	102	102
85°	58	58	58

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 735 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	738.7	64.9
10°-20°	303.9	26.7
20°-30°	60.4	5.3
30°-40°	15.1	1.3
40°-50°	7.9	0.7
50°-60°	5.9	0.5
60°-70°	4.1	0.4
70°-80°	2.4	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°	1102.9	96.8
0°-40°	1118.0	98.2
0°-60°	1131.8	99.4
0°-90°	1139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1139.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15519	15519	15519	15519	15519	
5°	10097	9993	9966	10035	10045	737
15°	877	894	894	878	866	301
25°	103	117	131	116	104	54
35°	20	22	23	22	20	14
45°	10	10	10	10	10	8
55°	7	7	7	7	7	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°	15518.6	15518.6	15518.6	15518.6	15518.6
2.5°	13998.4	14010.2	14014.8	14028.6	14079.9
5°	10096.8	9993.0	9966.0	10035.0	10044.9
7.5°	5980.9	6001.9	6078.8	6095.9	6034.1
10°	3282.2	3309.1	3305.1	3328.8	3355.7
12.5°	1678.5	1657.5	1650.9	1677.9	1640.4
15°	877.0	893.5	894.1	878.4	866.5
17.5°	471.7	490.7	522.3	496.7	457.2
20°	278.5	295.6	322.6	301.5	284.5
22.5°	172.1	185.9	205.0	188.5	174.8
25°	103.1	116.9	131.4	116.3	104.5
27.5°	61.1	72.9	82.1	72.3	60.4
30°	39.4	46.0	51.9	45.3	40.1
32.5°	27.6	30.2	32.8	30.2	27.6
35°	20.4	21.7	23.0	21.7	19.7
37.5°	15.8	17.1	17.7	16.4	15.1
40°	13.1	13.8	14.5	13.8	13.1
42.5°	11.2	11.8	11.8	11.8	11.2
45°	9.9	9.9	10.5	9.9	9.9
47.5°	8.5	8.5	9.2	8.5	8.5
50°	7.9	7.9	7.9	7.9	7.9
52.5°	7.2	7.2	7.2	7.2	7.2
55°	6.6	6.6	6.6	6.6	6.6
57.5°	5.9	5.9	5.9	5.9	5.9
60°	5.3	5.3	5.3	5.3	5.3
62.5°	4.6	4.6	4.6	4.6	4.6
65°	3.9	3.9	3.9	3.9	3.9
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.6	2.6	2.6	2.6	2.6
75°	2.0	2.0	2.0	2.0	2.6
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
85°	0.7	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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