

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: P741871

Luminaire Tested: LD4D10D010-EU4DR150210IC9024-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741871  
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-EU4DR150210IC9024-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 926.9 lumens  
Efficiency: N/A  
Efficacy: 79.2 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): 11.7  
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

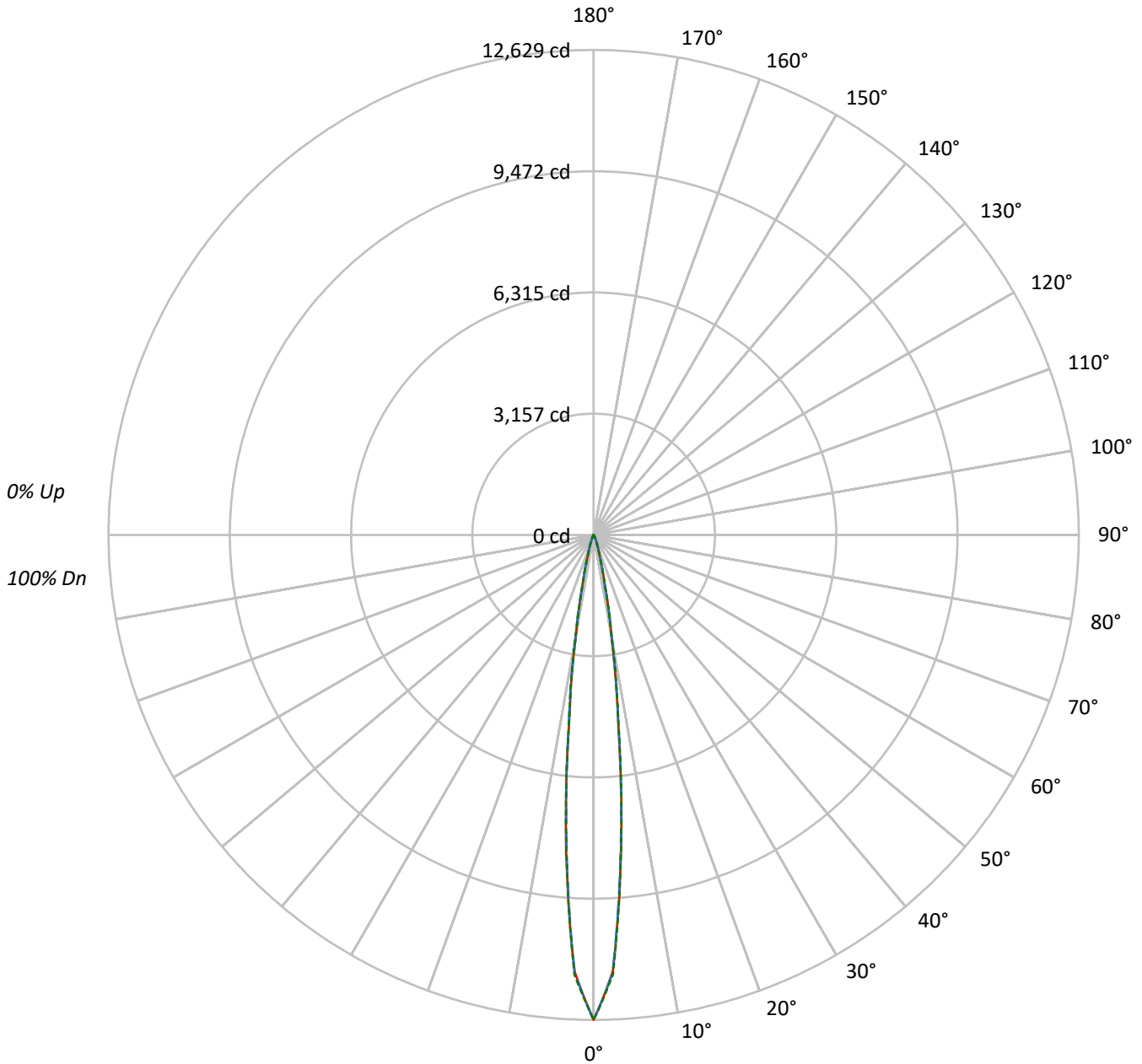


Downlight



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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	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°	142092	142092	142092
5°	835044	824231	830745
10°	249225	250969	254804
15°	61990	63197	61251
20°	18549	21478	18942
25°	6536	8328	6622
30°	2404	3160	2441
35°	1205	1358	1162
40°	760	838	760
45°	560	602	560
50°	445	445	445
55°	369	369	369
60°	302	302	302
65°	228	228	228
70°	197	197	197
75°	121	121	159
80°	87	87	87
85°	42	42	42

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 602 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	601.2	64.9
10°-20°	247.3	26.7
20°-30°	49.1	5.3
30°-40°	12.3	1.3
40°-50°	6.4	0.7
50°-60°	4.8	0.5
60°-70°	3.4	0.4
70°-80°	1.9	0.2
80°-90°	0.6	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°	897.5	96.8
0°-40°	909.8	98.2
0°-60°	921.0	99.4
0°-90°	926.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	926.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12629	12629	12629	12629	12629	
5°	8217	8132	8110	8166	8174	600
15°	714	727	728	715	705	245
25°	84	95	107	95	85	44
35°	17	18	19	18	16	11
45°	8	8	9	8	8	6
55°	5	5	5	5	5	5
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12628.8	12628.8	12628.8	12628.8	12628.8
2.5°	11391.7	11401.3	11405.0	11416.2	11457.9
5°	8216.6	8132.1	8110.2	8166.3	8174.3
7.5°	4867.2	4884.3	4946.8	4960.7	4910.5
10°	2671.0	2692.9	2689.7	2708.9	2730.8
12.5°	1366.0	1348.8	1343.5	1365.4	1334.9
15°	713.7	727.1	727.6	714.8	705.2
17.5°	383.9	399.4	425.0	404.2	372.1
20°	226.7	240.6	262.5	245.4	231.5
22.5°	140.1	151.3	166.8	153.4	142.2
25°	83.9	95.2	106.9	94.6	85.0
27.5°	49.7	59.3	66.8	58.8	49.2
30°	32.1	37.4	42.2	36.9	32.6
32.5°	22.5	24.6	26.7	24.6	22.5
35°	16.6	17.6	18.7	17.6	16.0
37.5°	12.8	13.9	14.4	13.4	12.3
40°	10.7	11.2	11.8	11.2	10.7
42.5°	9.1	9.6	9.6	9.6	9.1
45°	8.0	8.0	8.6	8.0	8.0
47.5°	7.0	7.0	7.5	7.0	7.0
50°	6.4	6.4	6.4	6.4	6.4
52.5°	5.9	5.9	5.9	5.9	5.9
55°	5.3	5.3	5.3	5.3	5.3
57.5°	4.8	4.8	4.8	4.8	4.8
60°	4.3	4.3	4.3	4.3	4.3
62.5°	3.7	3.7	3.7	3.7	3.7
65°	3.2	3.2	3.2	3.2	3.2
67.5°	3.2	3.2	3.2	3.2	3.2
70°	2.7	2.7	2.7	2.7	2.7
72.5°	2.1	2.1	2.1	2.1	2.1
75°	1.6	1.6	1.6	1.6	2.1
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5
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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