

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: P743133

Luminaire Tested: LD4D15D010-EU4DR300215IC9030-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D15D010-EU4DR300215IC9030-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1311.4 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
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



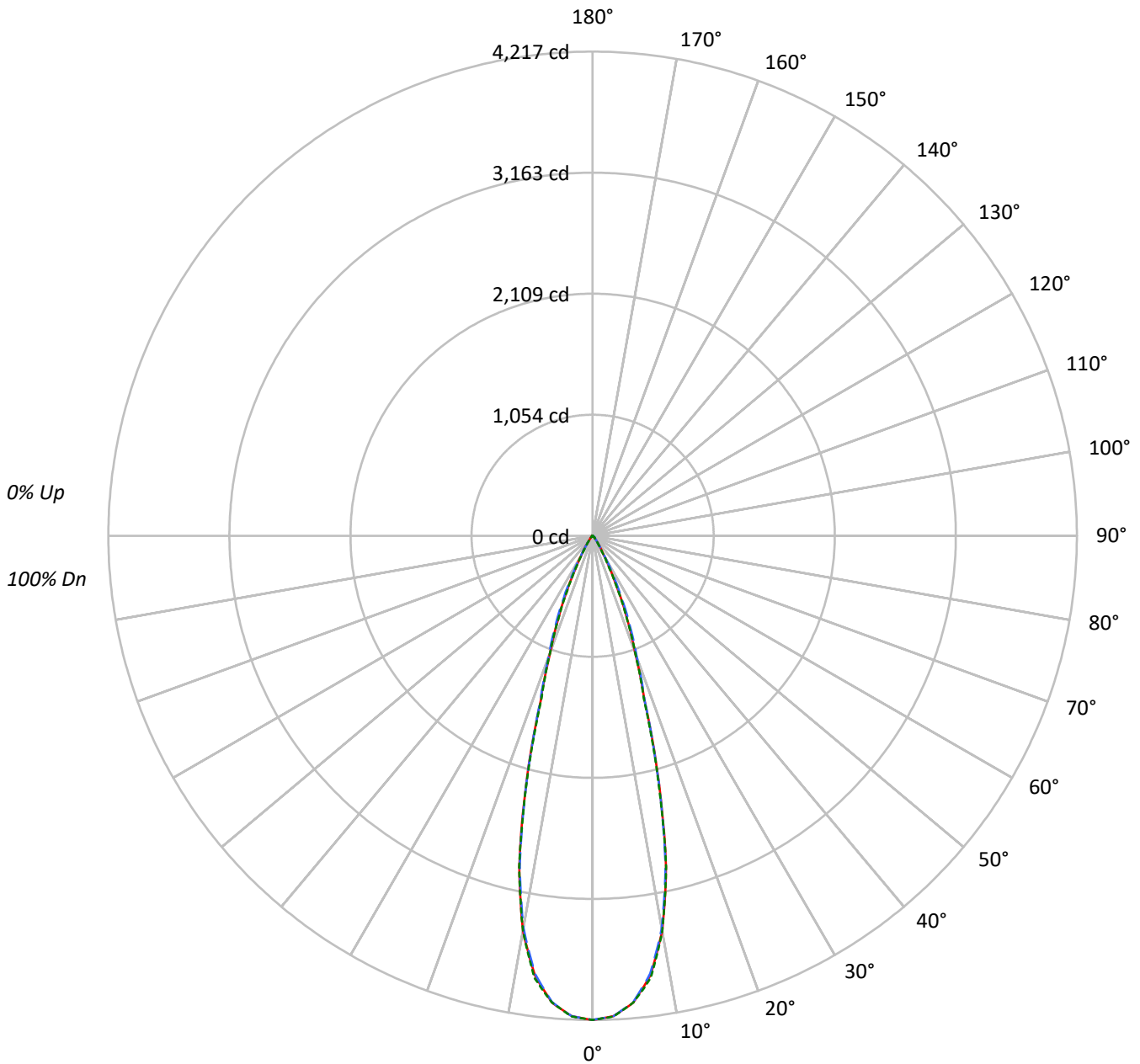
Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	322753	322753	322753
5°	313490	313121	313505
10°	271529	269617	271467
15°	177165	176206	175318
20°	88094	91402	87972
25°	44373	50040	43470
30°	17765	19356	15485
35°	8242	7896	6616
40°	3557	3947	3347
45°	2511	3118	2533
50°	857	2263	917
55°	494	934	534
60°	352	413	352
65°	235	235	235
70°	134	90	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3118 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.8	28.3
10°-20°	597.2	45.5
20°-30°	258.0	19.7
30°-40°	58.8	4.5
40°-50°	20.2	1.5
50°-60°	4.9	0.4
60°-70°	1.3	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	1226.0	93.5
0°-40°	1284.8	98.0
0°-60°	1309.9	99.9
0°-90°	1311.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1311.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4217	4217	4217	4217	4217	
5°	4080	4076	4075	4084	4080	371
15°	2236	2209	2224	2216	2212	599
25°	525	545	592	531	515	251
35°	88	90	84	84	71	60
45°	23	29	29	29	23	16
55°	4	4	7	4	4	4
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4216.6	4216.6	4216.6	4216.6	4216.6
2.5°	4188.7	4185.7	4187.4	4189.5	4190.3
5°	4080.0	4076.0	4075.2	4083.7	4080.2
7.5°	3860.8	3855.2	3846.7	3865.9	3883.9
10°	3493.5	3487.3	3468.9	3478.0	3492.7
12.5°	2951.3	2931.2	2930.8	2959.8	2955.9
15°	2235.7	2208.7	2223.6	2216.3	2212.4
17.5°	1503.4	1493.1	1512.9	1506.9	1481.0
20°	1081.5	1084.2	1122.1	1103.0	1080.0
22.5°	789.2	798.9	843.8	794.7	776.7
25°	525.4	545.3	592.5	531.4	514.7
27.5°	323.1	332.3	380.1	319.0	309.9
30°	201.0	196.5	219.0	188.0	175.2
32.5°	131.9	126.0	133.3	119.6	109.3
35°	88.2	90.1	84.5	83.8	70.8
37.5°	55.1	63.4	55.9	59.6	45.5
40°	35.6	46.0	39.5	43.7	33.5
42.5°	29.2	35.4	32.5	34.5	29.8
45°	23.2	28.8	28.8	28.8	23.4
47.5°	12.8	19.3	24.6	19.7	13.6
50°	7.2	9.7	19.0	10.1	7.7
52.5°	5.0	5.6	13.1	5.8	5.2
55°	3.7	4.0	7.0	4.1	4.0
57.5°	2.9	3.1	3.7	3.1	2.9
60°	2.3	2.3	2.7	2.5	2.3
62.5°	1.7	1.7	1.9	1.7	1.7
65°	1.3	1.3	1.3	1.3	1.3
67.5°	0.6	0.8	0.8	0.8	0.8
70°	0.6	0.4	0.4	0.4	0.6
72.5°	0.4	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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