

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: P743155

Luminaire Tested: LD4D15D010-EU4DR300215IC9040-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743155  
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-EU4DR300215IC9040-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1299.3 lumens  
Efficiency: N/A  
Efficacy: 82.2 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



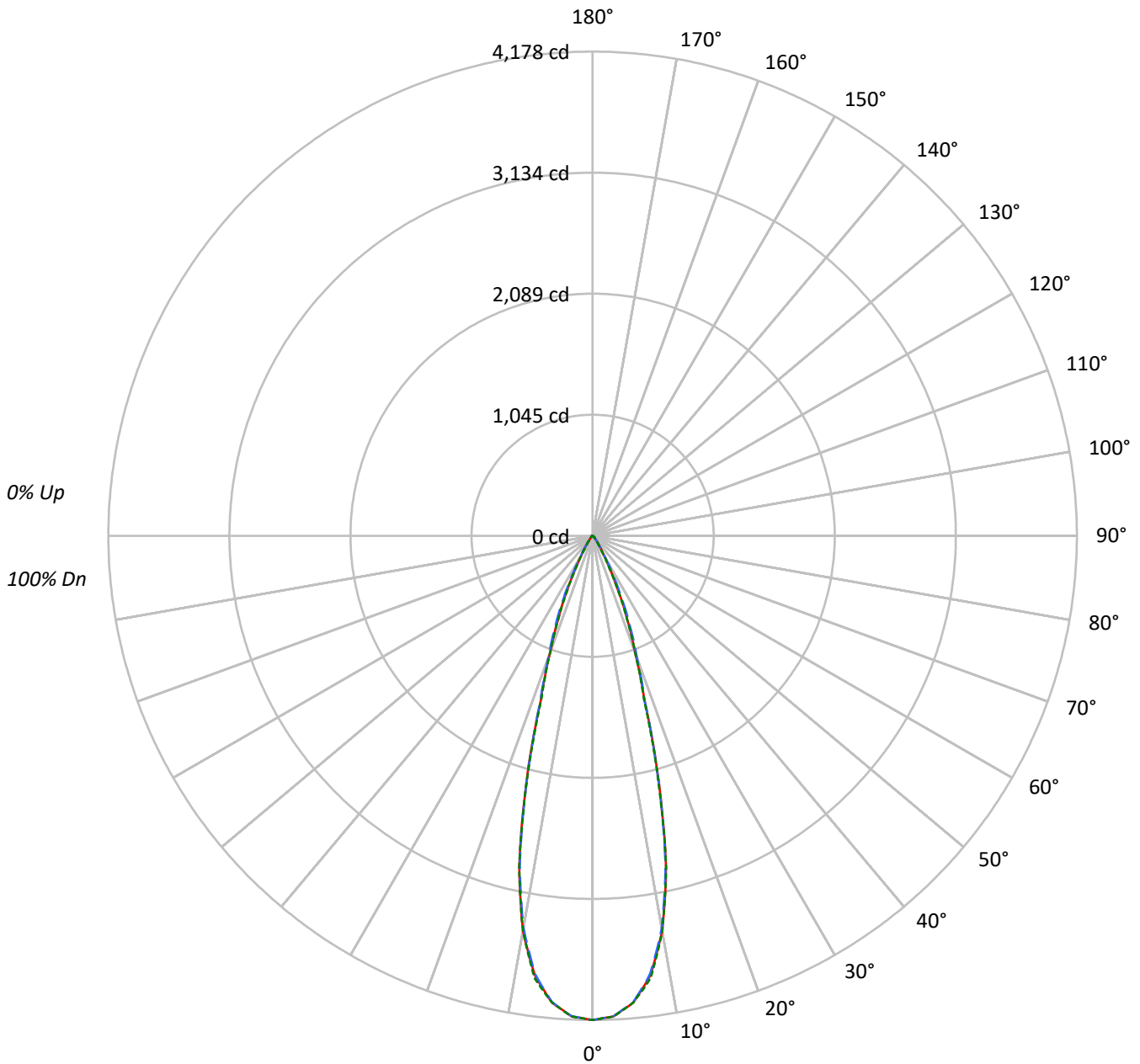
Downlight



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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°	319798	319798	319798
5°	310616	310255	310632
10°	269042	267146	268980
15°	175532	174589	173718
20°	87288	90563	87174
25°	43968	49576	43064
30°	17606	19179	15335
35°	8167	7821	6550
40°	3527	3917	3317
45°	2490	3085	2511
50°	857	2251	905
55°	494	934	520
60°	337	413	337
65°	217	217	217
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: 3085 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.4	28.3
10°-20°	591.7	45.5
20°-30°	255.7	19.7
30°-40°	58.3	4.5
40°-50°	20.0	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°	1214.8	93.5
0°-40°	1273.0	98.0
0°-60°	1297.9	99.9
0°-90°	1299.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1299.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4178	4178	4178	4178	4178	
5°	4043	4039	4038	4046	4043	368
15°	2215	2188	2203	2196	2192	593
25°	521	540	587	526	510	249
35°	87	89	84	83	70	59
45°	23	28	28	28	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°	4178.0	4178.0	4178.0	4178.0	4178.0
2.5°	4150.3	4147.4	4149.1	4151.1	4151.9
5°	4042.6	4038.7	4037.9	4046.3	4042.8
7.5°	3825.4	3819.9	3811.4	3830.5	3848.3
10°	3461.5	3455.4	3437.1	3446.1	3460.7
12.5°	2924.3	2904.3	2903.9	2932.6	2928.8
15°	2215.1	2188.5	2203.2	2196.1	2192.2
17.5°	1489.6	1479.4	1499.1	1493.1	1467.4
20°	1071.6	1074.2	1111.8	1092.9	1070.2
22.5°	782.0	791.6	836.1	787.5	769.6
25°	520.6	540.3	587.0	526.5	509.9
27.5°	320.2	329.2	376.6	316.1	307.0
30°	199.2	194.7	217.0	186.3	173.5
32.5°	130.7	124.9	132.1	118.5	108.3
35°	87.4	89.2	83.7	83.1	70.1
37.5°	54.5	62.8	55.4	59.1	45.1
40°	35.3	45.5	39.2	43.3	33.2
42.5°	28.9	35.1	32.2	34.3	29.6
45°	23.0	28.5	28.5	28.5	23.2
47.5°	12.7	19.1	24.4	19.5	13.5
50°	7.2	9.6	18.9	10.0	7.6
52.5°	4.9	5.6	12.9	5.7	5.2
55°	3.7	3.9	7.0	4.1	3.9
57.5°	2.9	3.1	3.7	3.1	2.9
60°	2.2	2.2	2.7	2.5	2.2
62.5°	1.7	1.7	1.8	1.7	1.7
65°	1.2	1.2	1.2	1.2	1.2
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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