

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: P739889

Luminaire Tested: LD4D05D010-EU4DR150210IC9040-4LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739889  
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: LD4D05D010-EU4DR150210IC9040-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 655.7 lumens  
Efficiency: N/A  
Efficacy: 87.4 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): 7.5  
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



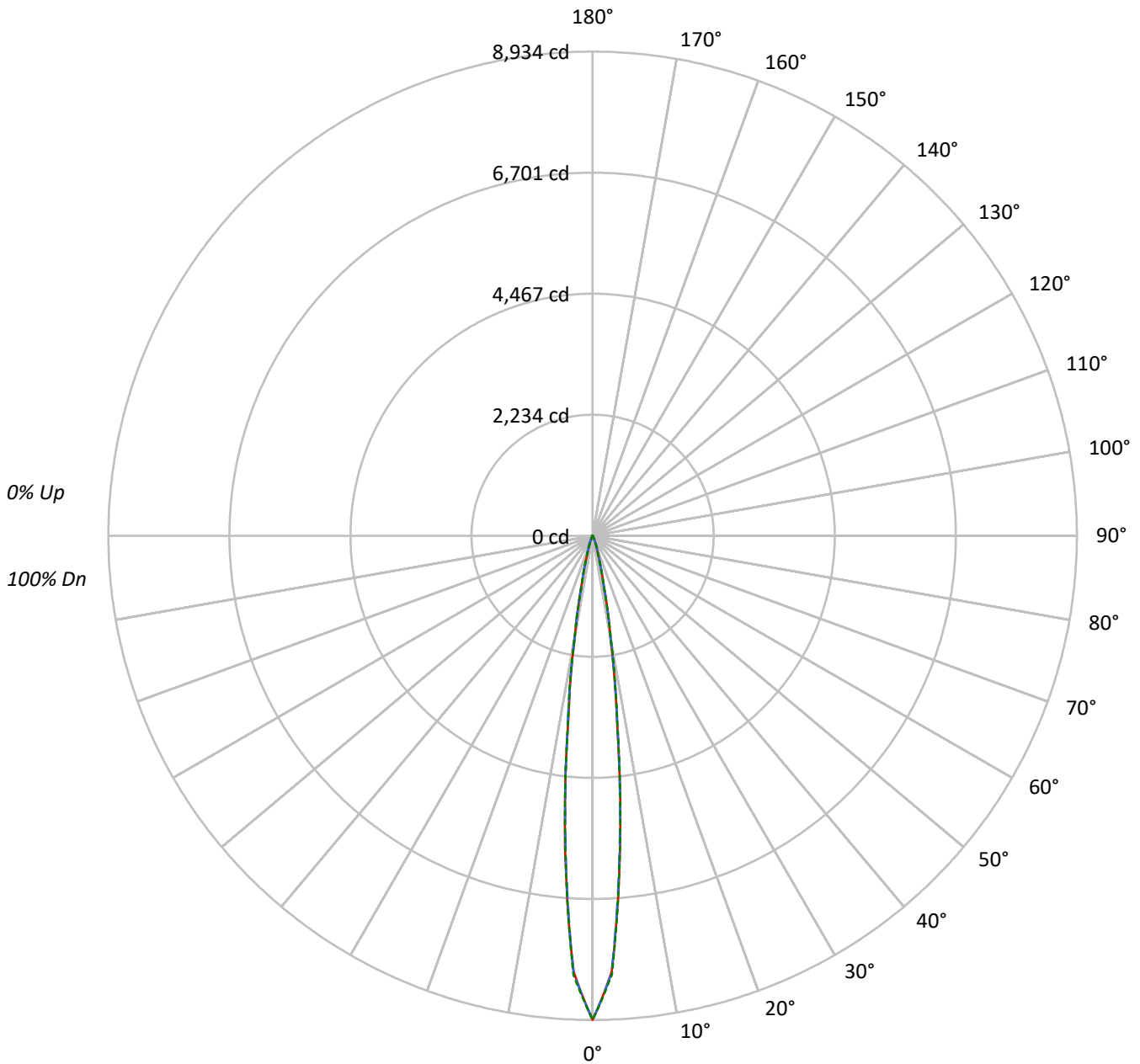
Downlight



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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	87	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°	1005231	1005231	1005231
5°	590718	583076	587689
10°	176305	177536	180252
15°	43854	44705	43324
20°	13124	15194	13403
25°	4627	5889	4682
30°	1700	2239	1730
35°	850	959	821
40°	540	589	540
45°	399	427	399
50°	313	313	313
55°	264	264	264
60°	211	211	211
65°	164	164	164
70°	139	139	139
75°	83	83	113
80°	63	63	63
85°	33	33	33

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 427 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.3	64.9
10°-20°	174.9	26.7
20°-30°	34.7	5.3
30°-40°	8.7	1.3
40°-50°	4.6	0.7
50°-60°	3.4	0.5
60°-70°	2.4	0.4
70°-80°	1.3	0.2
80°-90°	0.4	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°	634.9	96.8
0°-40°	643.6	98.2
0°-60°	651.5	99.4
0°-90°	655.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	655.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8934	8934	8934	8934	8934	
5°	5812	5753	5737	5777	5783	424
15°	505	514	515	506	499	173
25°	59	67	76	67	60	31
35°	12	12	13	12	11	8
45°	6	6	6	6	6	4
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	1	1	1	1	2	1
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°	8933.8	8933.8	8933.8	8933.8	8933.8
2.5°	8058.7	8065.5	8068.1	8076.1	8105.6
5°	5812.5	5752.8	5737.3	5777.0	5782.7
7.5°	3443.1	3455.2	3499.5	3509.3	3473.8
10°	1889.5	1905.0	1902.7	1916.3	1931.8
12.5°	966.3	954.2	950.4	965.9	944.4
15°	504.9	514.3	514.7	505.7	498.8
17.5°	271.5	282.5	300.7	285.9	263.2
20°	160.4	170.2	185.7	173.6	163.8
22.5°	99.1	107.0	118.0	108.5	100.6
25°	59.4	67.3	75.6	66.9	60.1
27.5°	35.2	42.0	47.3	41.6	34.8
30°	22.7	26.5	29.9	26.1	23.1
32.5°	15.9	17.4	18.9	17.4	15.9
35°	11.7	12.5	13.2	12.5	11.3
37.5°	9.1	9.8	10.2	9.5	8.7
40°	7.6	7.9	8.3	7.9	7.6
42.5°	6.4	6.8	6.8	6.8	6.4
45°	5.7	5.7	6.1	5.7	5.7
47.5°	4.9	4.9	5.3	4.9	4.9
50°	4.5	4.5	4.5	4.5	4.5
52.5°	4.2	4.2	4.2	4.2	4.2
55°	3.8	3.8	3.8	3.8	3.8
57.5°	3.4	3.4	3.4	3.4	3.4
60°	3.0	3.0	3.0	3.0	3.0
62.5°	2.6	2.6	2.6	2.6	2.6
65°	2.3	2.3	2.3	2.3	2.3
67.5°	2.3	2.3	2.3	2.3	2.3
70°	1.9	1.9	1.9	1.9	1.9
72.5°	1.5	1.5	1.5	1.5	1.5
75°	1.1	1.1	1.1	1.1	1.5
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4
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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