

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: P738898

Luminaire Tested: LD4D02D010-EU4DR150210IC9050-4LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P738898  
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: LD4D02D010-EU4DR150210IC9050-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 342.8 lumens  
Efficiency: N/A  
Efficacy: 67.2 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): 5.1  
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



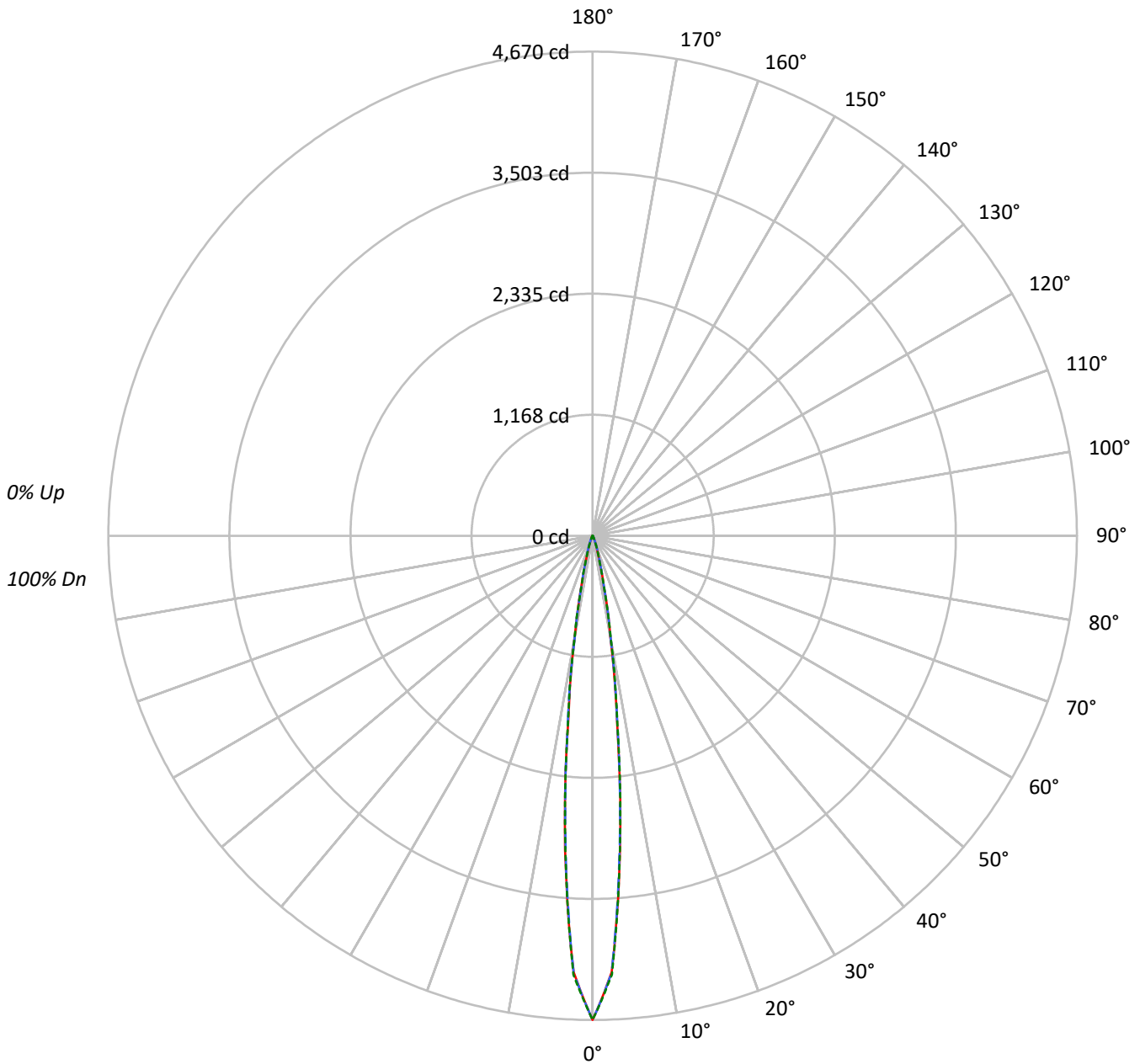
Downlight



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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					70					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	105	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	93	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°	525468	525468	525468
5°	308789	304785	307204
10°	92160	92804	94222
15°	22922	23373	22652
20°	6857	7945	7004
25°	2415	3077	2446
30°	891	1168	906
35°	443	501	428
40°	284	305	284
45°	210	224	210
50°	167	167	167
55°	139	139	139
60°	112	112	112
65°	86	86	86
70°	73	73	73
75°	45	45	60
80°	32	32	32
85°	17	17	17

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 224 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.3	64.8
10°-20°	91.4	26.7
20°-30°	18.2	5.3
30°-40°	4.5	1.3
40°-50°	2.4	0.7
50°-60°	1.8	0.5
60°-70°	1.3	0.4
70°-80°	0.7	0.2
80°-90°	0.2	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°	331.9	96.8
0°-40°	336.4	98.1
0°-60°	340.6	99.4
0°-90°	342.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	342.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4670	4670	4670	4670	4670	
5°	3038	3007	2999	3020	3023	222
15°	264	269	269	264	261	90
25°	31	35	40	35	31	16
35°	6	6	7	6	6	4
45°	3	3	3	3	3	2
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	1	1	1	1	1	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°	4670.0	4670.0	4670.0	4670.0	4670.0
2.5°	4212.5	4216.0	4217.4	4221.6	4237.0
5°	3038.4	3007.1	2999.0	3019.8	3022.8
7.5°	1799.8	1806.1	1829.3	1834.4	1815.8
10°	987.7	995.8	994.6	1001.7	1009.8
12.5°	505.1	498.8	496.8	504.9	493.6
15°	263.9	268.9	269.1	264.3	260.8
17.5°	141.9	147.7	157.2	149.5	137.6
20°	83.8	89.0	97.1	90.7	85.6
22.5°	51.8	55.9	61.7	56.7	52.6
25°	31.0	35.2	39.5	35.0	31.4
27.5°	18.4	21.9	24.7	21.7	18.2
30°	11.9	13.8	15.6	13.6	12.1
32.5°	8.3	9.1	9.9	9.1	8.3
35°	6.1	6.5	6.9	6.5	5.9
37.5°	4.7	5.1	5.3	4.9	4.5
40°	4.0	4.2	4.3	4.2	4.0
42.5°	3.4	3.6	3.6	3.6	3.4
45°	3.0	3.0	3.2	3.0	3.0
47.5°	2.6	2.6	2.8	2.6	2.6
50°	2.4	2.4	2.4	2.4	2.4
52.5°	2.2	2.2	2.2	2.2	2.2
55°	2.0	2.0	2.0	2.0	2.0
57.5°	1.8	1.8	1.8	1.8	1.8
60°	1.6	1.6	1.6	1.6	1.6
62.5°	1.4	1.4	1.4	1.4	1.4
65°	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2
70°	1.0	1.0	1.0	1.0	1.0
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.6	0.6	0.6	0.6	0.8
77.5°	0.6	0.6	0.6	0.6	0.6
80°	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2
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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