

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: P776983

Luminaire Tested: LERS4D02D010-EC4DR150210IC9024-4LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776983  
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: LERS4D02D010-EC4DR150210IC9024-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 307.1 lumens  
Efficiency: N/A  
Efficacy: 60.2 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



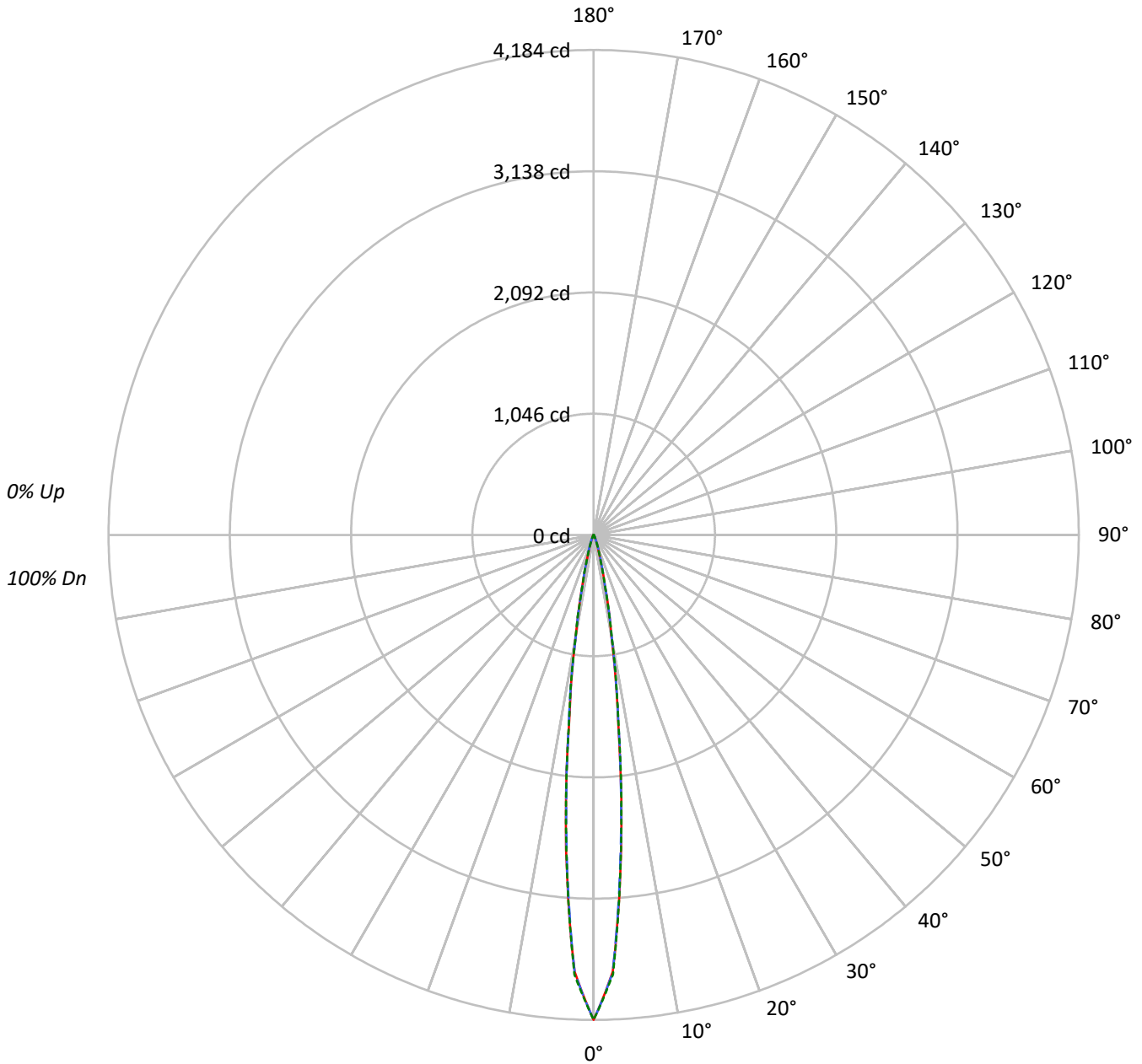
Downlight



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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									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°	470772	470772	470772
5°	276644	273067	275221
10°	82568	83146	84415
15°	20542	20941	20290
20°	6145	7119	6276
25°	2166	2758	2197
30°	794	1048	809
35°	399	450	385
40°	249	277	249
45°	189	196	189
50°	146	146	146
55°	125	125	125
60°	98	98	98
65°	79	79	79
70°	66	66	66
75°	38	38	53
80°	32	32	32
85°	17	17	17

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 196 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.2	64.9
10°-20°	81.9	26.7
20°-30°	16.3	5.3
30°-40°	4.1	1.3
40°-50°	2.1	0.7
50°-60°	1.6	0.5
60°-70°	1.1	0.4
70°-80°	0.6	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°	297.4	96.8
0°-40°	301.4	98.1
0°-60°	305.1	99.4
0°-90°	307.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	307.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4184	4184	4184	4184	4184	
5°	2722	2694	2687	2706	2708	199
15°	236	241	241	237	234	81
25°	28	32	35	31	28	15
35°	6	6	6	6	5	4
45°	3	3	3	3	3	2
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	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°	4183.9	4183.9	4183.9	4183.9	4183.9
2.5°	3774.0	3777.2	3778.4	3782.2	3796.0
5°	2722.1	2694.1	2686.9	2705.5	2708.1
7.5°	1612.5	1618.1	1638.9	1643.5	1626.8
10°	884.9	892.1	891.1	897.5	904.7
12.5°	452.5	446.9	445.1	452.4	442.3
15°	236.5	240.9	241.1	236.8	233.6
17.5°	127.2	132.3	140.8	133.9	123.3
20°	75.1	79.7	87.0	81.3	76.7
22.5°	46.4	50.1	55.3	50.8	47.1
25°	27.8	31.5	35.4	31.3	28.2
27.5°	16.5	19.7	22.1	19.5	16.3
30°	10.6	12.4	14.0	12.2	10.8
32.5°	7.4	8.1	8.9	8.1	7.4
35°	5.5	5.8	6.2	5.8	5.3
37.5°	4.3	4.6	4.8	4.4	4.1
40°	3.5	3.7	3.9	3.7	3.5
42.5°	3.0	3.2	3.2	3.2	3.0
45°	2.7	2.7	2.8	2.7	2.7
47.5°	2.3	2.3	2.5	2.3	2.3
50°	2.1	2.1	2.1	2.1	2.1
52.5°	1.9	1.9	1.9	1.9	1.9
55°	1.8	1.8	1.8	1.8	1.8
57.5°	1.6	1.6	1.6	1.6	1.6
60°	1.4	1.4	1.4	1.4	1.4
62.5°	1.2	1.2	1.2	1.2	1.2
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	0.9	0.9	0.9	0.9	0.9
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.5	0.5	0.5	0.5	0.7
77.5°	0.5	0.5	0.5	0.5	0.5
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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