

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: P778087

Luminaire Tested: LERS4D10D010-EC4DR500210IC9024-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P778087  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LERS4D10D010-EC4DR500210IC9024-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 50° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 904.4 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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



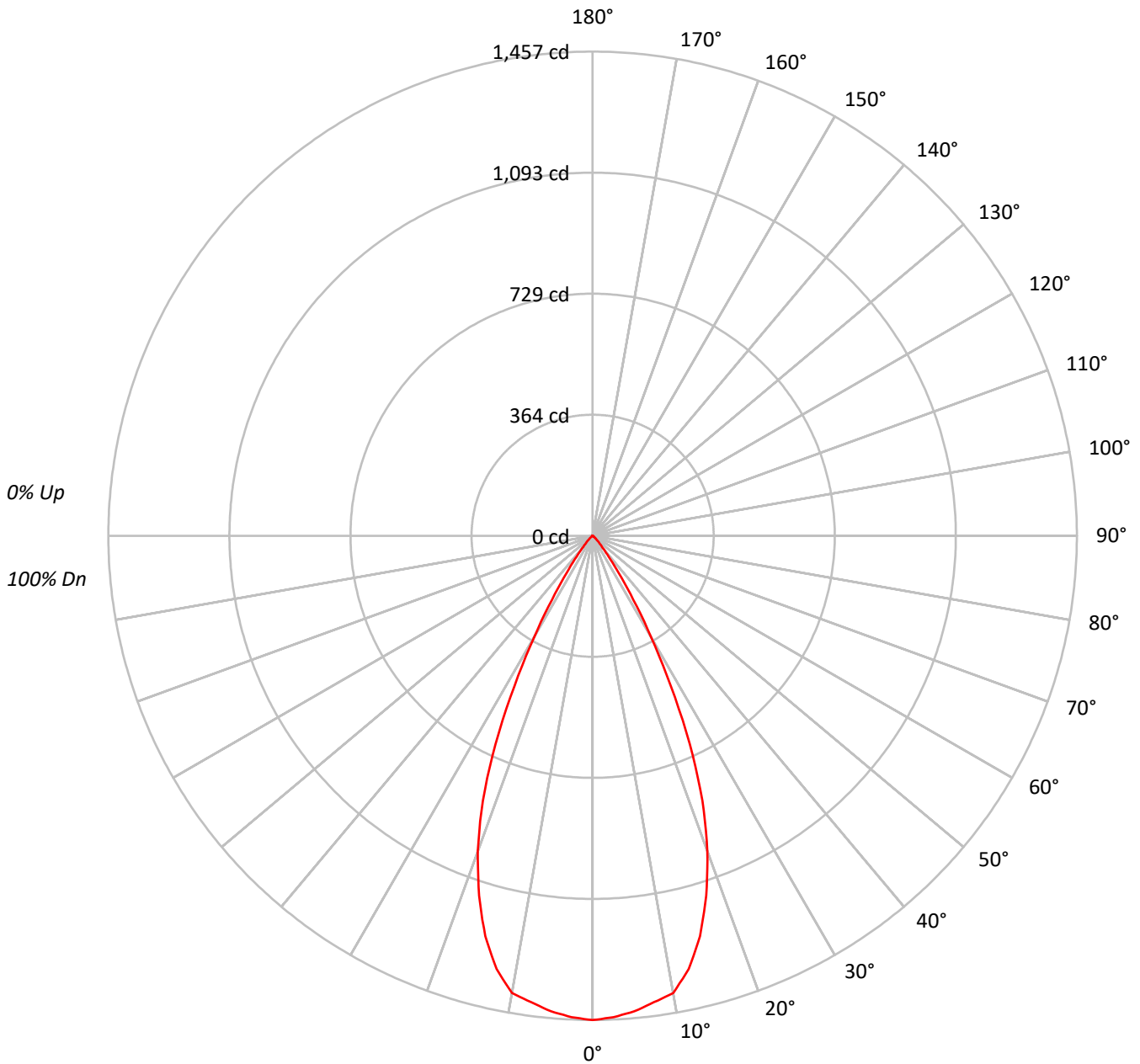
Downlight



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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									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	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	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95	95	93	91	88	86	85	85	83	82	82	80																	
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	88	86	85	85	83	82	80	77	76	74	72	72																	
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85	85	83	82	80	77	76	74	72	72	70	69																	
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80	77	76	74	72	70	69	66	65	65	63	62																	
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76	74	72	70	69	66	65	65	63	62	60	59																	
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72	70	69	66	65	65	63	62	60	59	57	56																	
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69	66	65	65	63	62	60	59	57	56	54	53																	
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65	65	63	62	60	59	57	56	54	53	51	50																	
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62	60	59	57	56	54	53	51	50	48	47	45																	
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59	57	56	54	53	51	50	48	47	45	43	42																	

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

	0°
0°	159215
5°	157542
10°	154959
15°	141100
20°	117412
25°	83340
30°	44119
35°	17980
40°	6675
45°	3059
50°	1258
55°	648
60°	328
65°	78
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3059 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.8	15.0
10°-20°	343.1	37.9
20°-30°	308.2	34.1
30°-40°	96.5	10.7
40°-50°	16.9	1.9
50°-60°	3.3	0.4
60°-70°	0.5	0.1
70°-80°	0.0	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°	787.1	87.0
0°-40°	883.6	97.7
0°-60°	903.9	99.9
0°-90°	904.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	904.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1457	
5°	1436	136
15°	1247	343
25°	691	308
35°	135	97
45°	20	17
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1457.2
2.5°	1450.0
5°	1436.4
7.5°	1415.8
10°	1396.7
12.5°	1335.3
15°	1247.4
17.5°	1135.8
20°	1009.8
22.5°	864.0
25°	691.3
27.5°	508.3
30°	349.7
32.5°	227.6
35°	134.8
37.5°	77.4
40°	46.8
42.5°	30.5
45°	19.8
47.5°	12.0
50°	7.4
52.5°	5.0
55°	3.4
57.5°	2.3
60°	1.5
62.5°	0.9
65°	0.3
67.5°	0.1
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)