

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: P778159

Luminaire Tested: LERS4D10D010-EC4DR650210IC9024-4LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P778159  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LERS4D10D010-EC4DR650210IC9024-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 764.1 lumens  
Efficiency: N/A  
Efficacy: 65.3 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96  
Luminous Opening: Circular (Dia: 0.48' 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



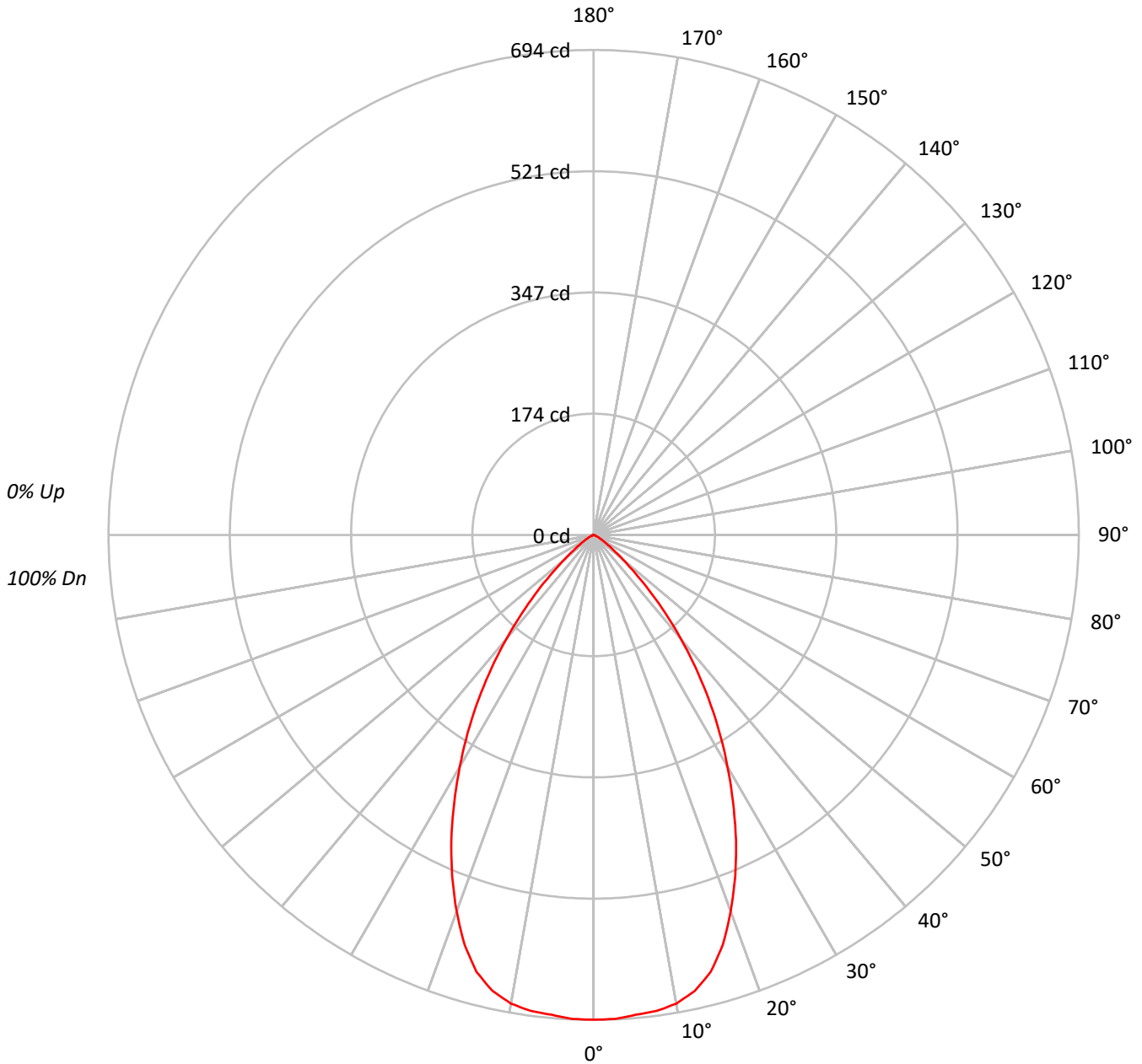
Downlight



TEST NUMBER: P778159

CATALOG NUMBER: LERS4D10D010-EC4DR650210IC9024-4LBS1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P778159

CATALOG NUMBER: LERS4D10D010-EC4DR650210IC9024-4LBS1MW

**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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93																			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85																			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																			
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61																			
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56																			
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

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

	0°
0°	40521
5°	40417
10°	40387
15°	39138
20°	35632
25°	31054
30°	25829
35°	20463
40°	14768
45°	9333
50°	4861
55°	2586
60°	1355
65°	746
70°	307
75°	338
80°	235
85°	201

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9333 cd/sqm



TEST NUMBER: P778159

CATALOG NUMBER: LERS4D10D010-EC4DR650210IC9024-4LBS1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.6	8.6
10°-20°	179.7	23.5
20°-30°	219.6	28.7
30°-40°	178.2	23.3
40°-50°	88.8	11.6
50°-60°	24.8	3.2
60°-70°	5.6	0.7
70°-80°	1.4	0.2
80°-90°	0.4	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°	464.9	60.8
0°-40°	643.1	84.2
0°-60°	756.7	99.0
0°-90°	764.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	764.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	694	
5°	689	66
15°	647	180
25°	482	220
35°	287	178
45°	113	89
55°	25	25
65°	5	6
75°	2	1
85°	0	0
90°	0	



TEST NUMBER: P778159

CATALOG NUMBER: LERS4D10D010-EC4DR650210IC9024-4LBS1MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	693.8
2.5°	693.3
5°	689.4
7.5°	687.2
10°	681.0
12.5°	668.3
15°	647.3
17.5°	614.5
20°	573.3
22.5°	528.9
25°	481.9
27.5°	431.6
30°	383.0
32.5°	334.9
35°	287.0
37.5°	239.2
40°	193.7
42.5°	151.1
45°	113.0
47.5°	78.7
50°	53.5
52.5°	36.9
55°	25.4
57.5°	17.1
60°	11.6
62.5°	8.1
65°	5.4
67.5°	2.8
70°	1.8
72.5°	1.7
75°	1.5
77.5°	1.0
80°	0.7
82.5°	0.5
85°	0.3
87.5°	0.2
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

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

Scaled Data Report





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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)