

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: P777227

Luminaire Tested: LERS4D02D010-EC4DR650210IC9027-4LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777227  
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: LERS4D02D010-EC4DR650210IC9027-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 295.9 lumens  
Efficiency: N/A  
Efficacy: 58.0 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): 5.1  
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



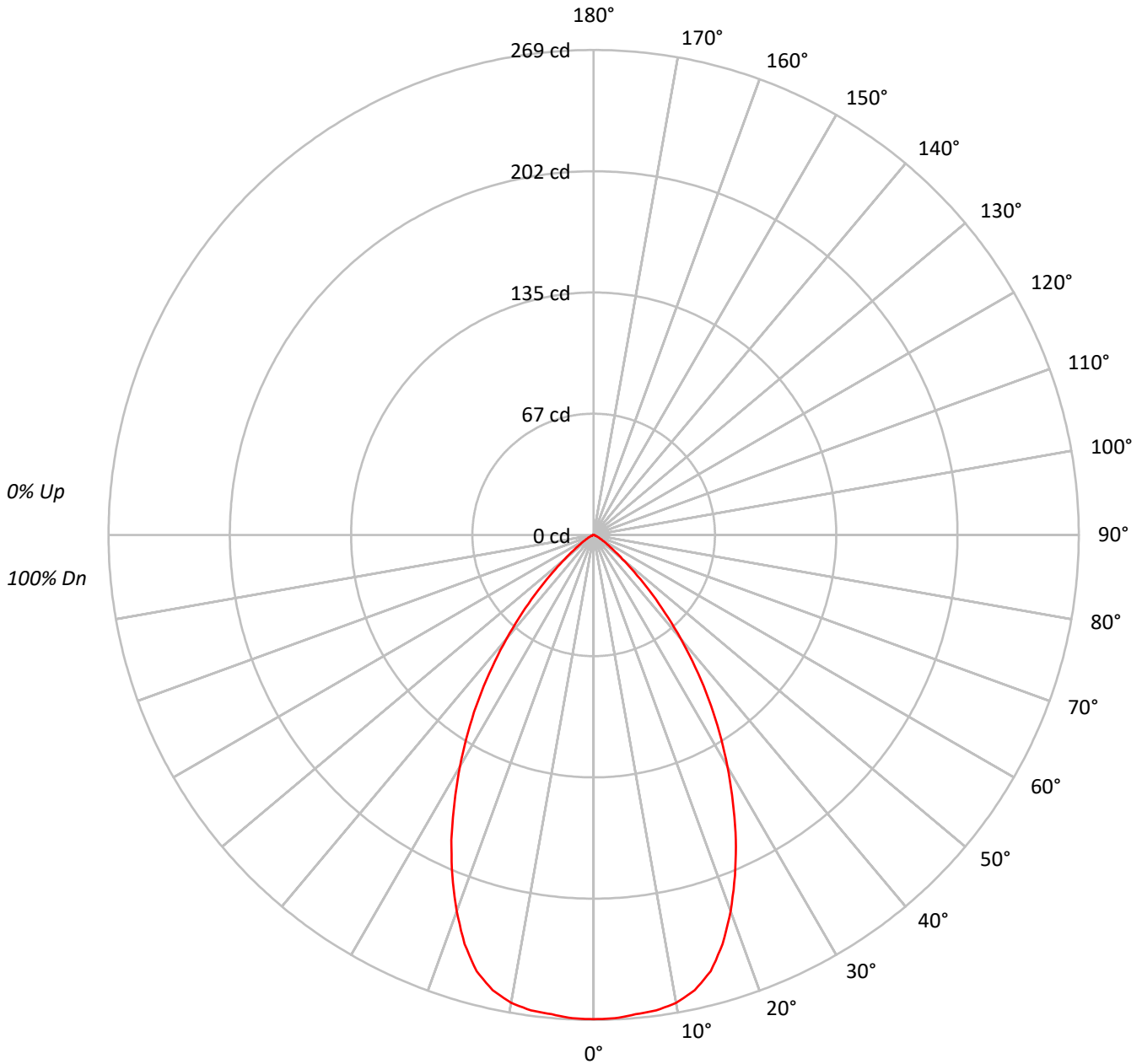
Downlight



TEST NUMBER: P777227

CATALOG NUMBER: LERS4D02D010-EC4DR650210IC9027-4LBS1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P777227

CATALOG NUMBER: LERS4D02D010-EC4DR650210IC9027-4LBS1MW

**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			100																
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93			93																
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85																
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			78																
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			72																
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	67	66			66																
6	85	75	69	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			61																
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56																
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52			52																
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			49																
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46			46																

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

	0°
0°	15687
5°	15648
10°	15633
15°	15152
20°	13798
25°	12025
30°	10001
35°	7921
40°	5718
45°	3609
50°	1881
55°	1008
60°	526
65°	290
70°	120
75°	135
80°	101
85°	67

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3609 cd/sqm



TEST NUMBER: P777227

CATALOG NUMBER: LERS4D02D010-EC4DR650210IC9027-4LBS1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.4	8.6
10°-20°	69.6	23.5
20°-30°	85.0	28.7
30°-40°	69.0	23.3
40°-50°	34.4	11.6
50°-60°	9.6	3.2
60°-70°	2.2	0.7
70°-80°	0.6	0.2
80°-90°	0.1	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°	180.0	60.8
0°-40°	249.0	84.2
0°-60°	293.0	99.0
0°-90°	295.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	295.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	269	
5°	267	25
15°	251	70
25°	187	85
35°	111	69
45°	44	34
55°	10	10
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P777227

CATALOG NUMBER: LERS4D02D010-EC4DR650210IC9027-4LBS1MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	268.6
2.5°	268.4
5°	266.9
7.5°	266.0
10°	263.6
12.5°	258.7
15°	250.6
17.5°	237.9
20°	222.0
22.5°	204.7
25°	186.6
27.5°	167.1
30°	148.3
32.5°	129.7
35°	111.1
37.5°	92.6
40°	75.0
42.5°	58.5
45°	43.7
47.5°	30.5
50°	20.7
52.5°	14.3
55°	9.9
57.5°	6.6
60°	4.5
62.5°	3.1
65°	2.1
67.5°	1.1
70°	0.7
72.5°	0.7
75°	0.6
77.5°	0.4
80°	0.3
82.5°	0.2
85°	0.1
87.5°	0.1
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)