

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: P777817

Luminaire Tested: LERS4D08D010-EC4DR550210IC9050-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777817  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LERS4D08D010-EC4DR550210IC9050-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 55° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 862.6 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 8.9  
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



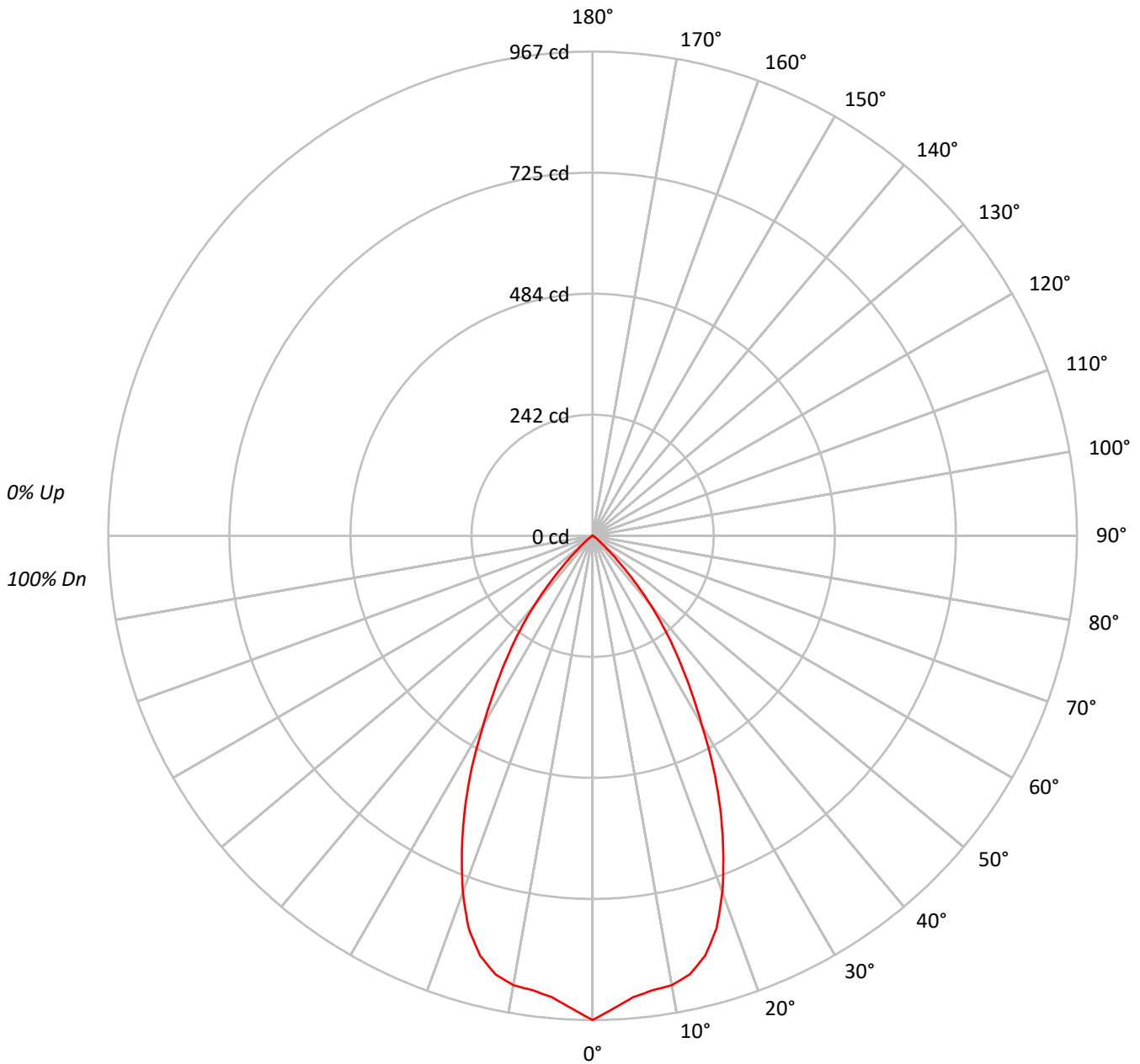
Downlight



TEST NUMBER: P777817

CATALOG NUMBER: LERS4D08D010-EC4DR550210IC9050-4LBS1H

### Luminous Intensity Polar Plot





TEST NUMBER: P777817

CATALOG NUMBER: LERS4D08D010-EC4DR550210IC9050-4LBS1H

**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																			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87																			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81																			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	88	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65																			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61																			
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57																			
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54																			
10	72	62	56	52	71	61	56	52	61	56	52	60	55	52	59	55	52	50																			

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

	0°
0°	105688
5°	101485
10°	101105
15°	98206
20°	88053
25°	72768
30°	54969
35°	39855
40°	25502
45°	11651
50°	3808
55°	1657
60°	699
65°	78
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11651 cd/sqm



TEST NUMBER: P777817

CATALOG NUMBER: LERS4D08D010-EC4DR550210IC9050-4LBS1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	10.2
10°-20°	240.3	27.9
20°-30°	273.8	31.7
30°-40°	186.4	21.6
40°-50°	64.2	7.4
50°-60°	8.9	1.0
60°-70°	0.8	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°	602.2	69.8
0°-40°	788.6	91.4
0°-60°	861.8	99.9
0°-90°	862.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	862.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	967	
5°	925	88
15°	868	240
25°	604	274
35°	299	186
45°	75	64
55°	9	9
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P777817

CATALOG NUMBER: LERS4D08D010-EC4DR550210IC9050-4LBS1H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	967.3
2.5°	945.1
5°	925.3
7.5°	915.6
10°	911.3
12.5°	897.0
15°	868.2
17.5°	822.5
20°	757.3
22.5°	682.0
25°	603.6
27.5°	522.0
30°	435.7
32.5°	362.6
35°	298.8
37.5°	238.2
40°	178.8
42.5°	123.9
45°	75.4
47.5°	40.6
50°	22.4
52.5°	13.3
55°	8.7
57.5°	5.5
60°	3.2
62.5°	1.4
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

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)