

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: P777946

Luminaire Tested: LERS4D10D010-EC4DR200210IC9027-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777946  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LERS4D10D010-EC4DR200210IC9027-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1133.6 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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



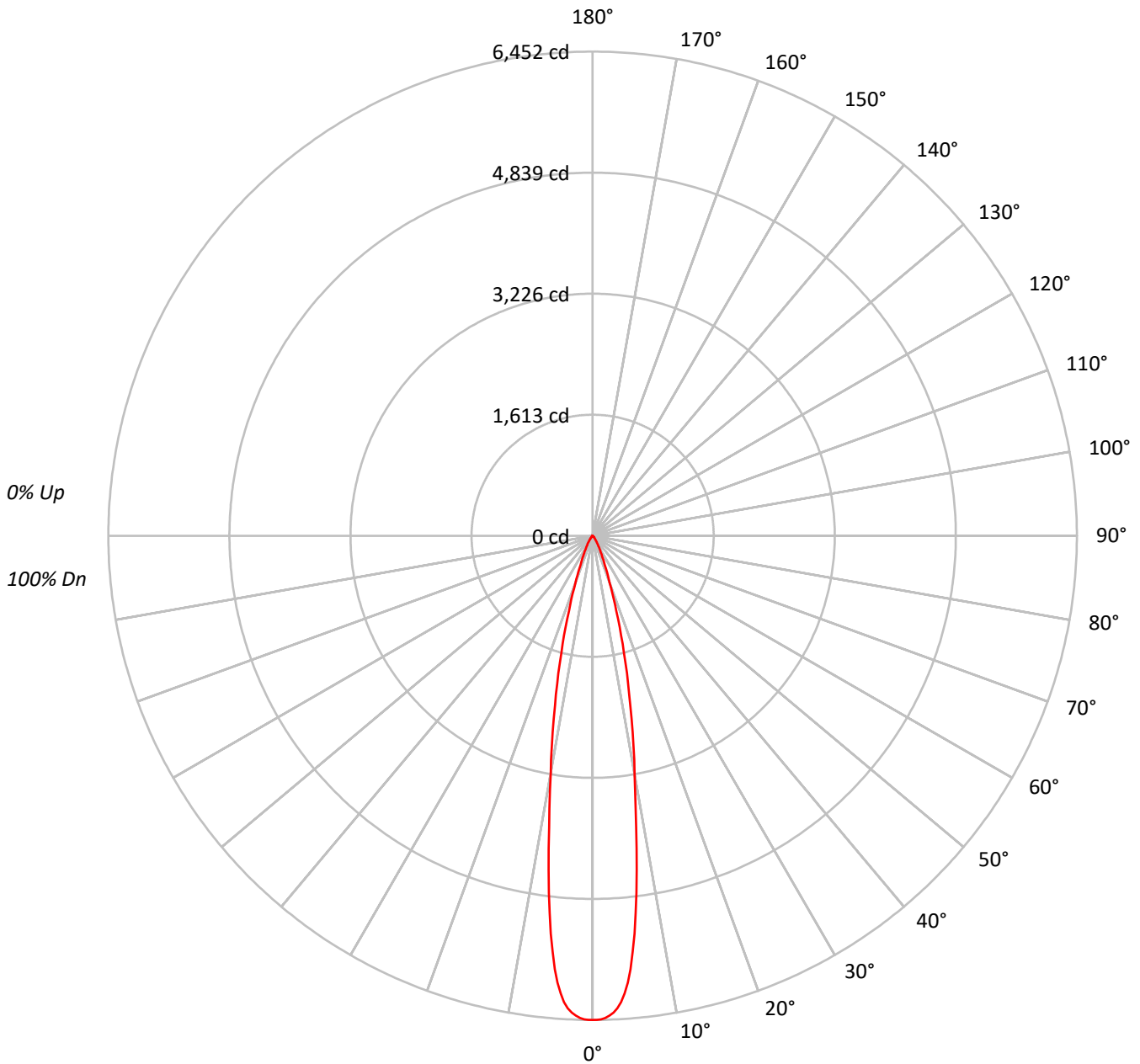
Downlight



TEST NUMBER: P777946

CATALOG NUMBER: LERS4D10D010-EC4DR200210IC9027-4LBS1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P777946

CATALOG NUMBER: LERS4D10D010-EC4DR200210IC9027-4LBS1LI

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	97	97
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	94	94
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	91	91
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	88	88
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	85	85
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	83	83
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	81	81
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	79	79
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	77	77
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	75	75

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

	0°
0°	704950
5°	635990
10°	356959
15°	181448
20°	76821
25°	35468
30°	18773
35°	10110
40°	5406
45°	3199
50°	1853
55°	991
60°	634
65°	440
70°	192
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3199 cd/sqm



TEST NUMBER: P777946

CATALOG NUMBER: LERS4D10D010-EC4DR200210IC9027-4LBS1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	459.4	40.5
10°-20°	452.3	39.9
20°-30°	147.8	13.0
30°-40°	50.3	4.4
40°-50°	16.9	1.5
50°-60°	5.1	0.4
60°-70°	1.7	0.1
70°-80°	0.1	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°	1059.5	93.5
0°-40°	1109.8	97.9
0°-60°	1131.8	99.8
0°-90°	1133.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1133.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6452	
5°	5799	459
15°	1604	452
25°	294	148
35°	76	50
45°	21	17
55°	5	5
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P777946

CATALOG NUMBER: LERS4D10D010-EC4DR200210IC9027-4LBS1LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6452.0
0.5°	6452.0
1°	6443.9
1.5°	6427.9
2°	6398.6
2.5°	6359.5
3°	6304.3
3.5°	6227.3
4°	6113.0
4.5°	5974.0
5°	5798.7
5.5°	5568.4
6°	5332.2
6.5°	5061.6
7°	4796.8
7.5°	4486.5
8°	4209.6
8.5°	3930.9
9°	3673.6
9.5°	3437.4
10°	3217.4
12.5°	2310.2
15°	1604.1
17.5°	1047.9
20°	660.7
22.5°	428.0
25°	294.2
27.5°	206.8
30°	148.8
32.5°	106.9
35°	75.8
37.5°	52.9
40°	37.9
42.5°	27.6
45°	20.7
47.5°	16.1
50°	10.9
52.5°	6.9
55°	5.2
57.5°	4.0
60°	2.9
62.5°	2.3
65°	1.7



TEST NUMBER: P777946

CATALOG NUMBER: LERS4D10D010-EC4DR200210IC9027-4LBS1LI

**CANDELA DISTRIBUTION (continued):**

	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





67.5°		1.1
70°		0.6

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

Scaled Data Report



(END OF REPORT)