

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: P777628

Luminaire Tested: LERS4D08D010-EC4DR200210IC9024-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777628  
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: LERS4D08D010-EC4DR200210IC9024-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 680.7 lumens  
Efficiency: N/A  
Efficacy: 76.5 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): 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



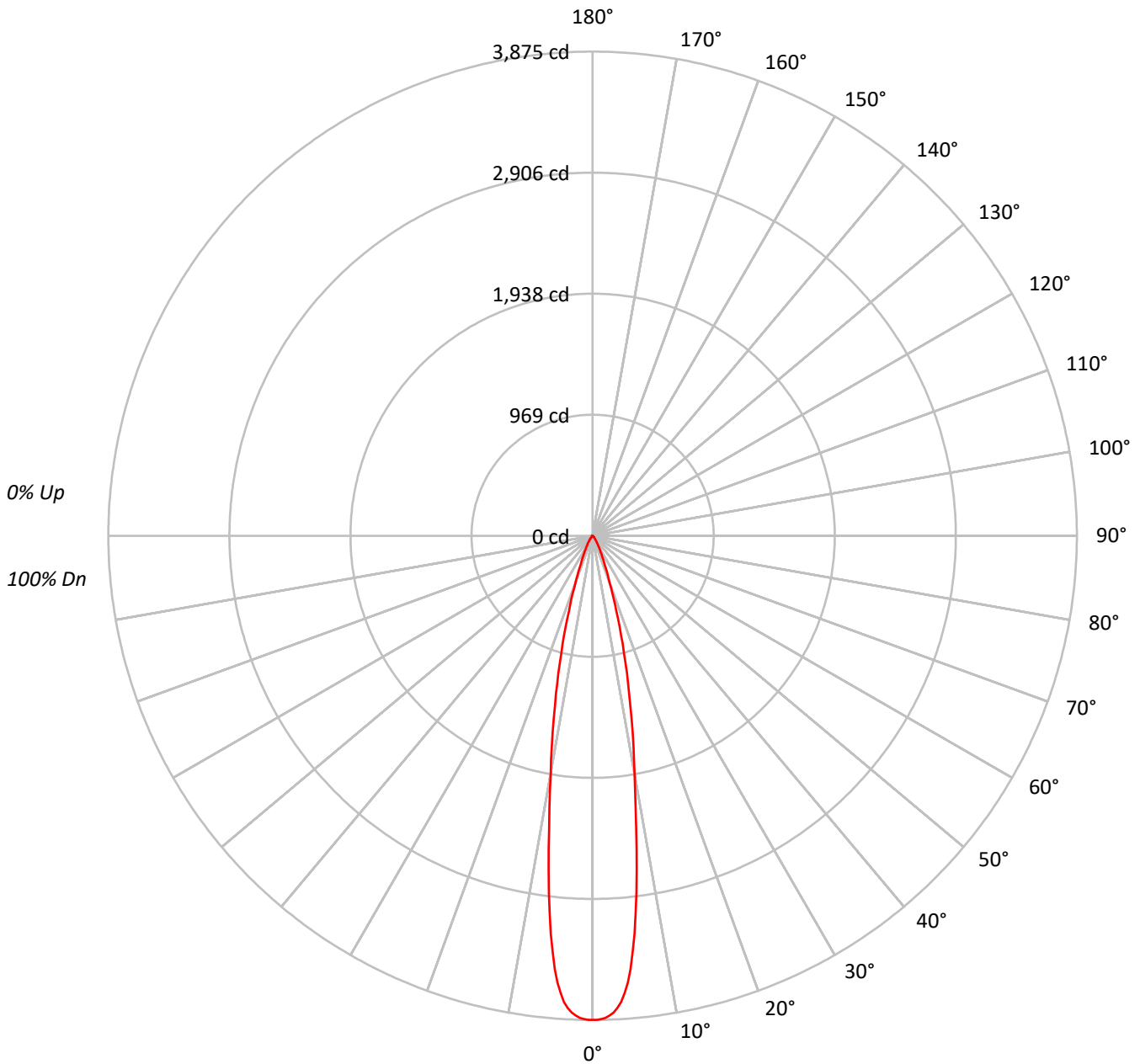
Downlight



TEST NUMBER: P777628

CATALOG NUMBER: LERS4D08D010-EC4DR200210IC9024-4LBS1B

### Luminous Intensity Polar Plot





TEST NUMBER: P777628

CATALOG NUMBER: LERS4D08D010-EC4DR200210IC9024-4LBS1B

**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						100													
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	100	99	98	97	98	96	95	94												
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	98	96	95	94	93	92	91	94												
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	98	96	95	94	93	92	91	94												
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	93	91	89	88	86	85	84	88												
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	91	88	86	85	84	83	82	85												
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	88	86	84	83	82	81	80	83												
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	86	84	82	81	80	79	78	81												
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	84	82	80	79	78	77	76	79												
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	82	80	78	77	76	75	74	77												
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	81	78	76	75	74	73	72	75												

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

	0°
0°	423342
5°	381932
10°	214359
15°	108964
20°	46137
25°	21302
30°	11279
35°	6069
40°	3252
45°	1916
50°	1122
55°	591
60°	371
65°	259
70°	96
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1916 cd/sqm



TEST NUMBER: P777628

CATALOG NUMBER: LERS4D08D010-EC4DR200210IC9024-4LBS1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.9	40.5
10°-20°	271.6	39.9
20°-30°	88.7	13.0
30°-40°	30.2	4.4
40°-50°	10.2	1.5
50°-60°	3.0	0.4
60°-70°	1.0	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°	636.2	93.5
0°-40°	666.5	97.9
0°-60°	679.7	99.8
0°-90°	680.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3875	
5°	3482	276
15°	963	272
25°	177	89
35°	46	30
45°	12	10
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P777628

CATALOG NUMBER: LERS4D08D010-EC4DR200210IC9024-4LBS1B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3874.6
0.5°	3874.6
1°	3869.8
1.5°	3860.1
2°	3842.5
2.5°	3819.1
3°	3785.9
3.5°	3739.7
4°	3671.0
4.5°	3587.5
5°	3482.3
5.5°	3344.0
6°	3202.2
6.5°	3039.7
7°	2880.6
7.5°	2694.3
8°	2528.0
8.5°	2360.6
9°	2206.1
9.5°	2064.3
10°	1932.1
12.5°	1387.3
15°	963.3
17.5°	629.3
20°	396.8
22.5°	257.0
25°	176.7
27.5°	124.2
30°	89.4
32.5°	64.2
35°	45.5
37.5°	31.7
40°	22.8
42.5°	16.6
45°	12.4
47.5°	9.7
50°	6.6
52.5°	4.1
55°	3.1
57.5°	2.4
60°	1.7
62.5°	1.4
65°	1.0



TEST NUMBER: P777628

CATALOG NUMBER: LERS4D08D010-EC4DR200210IC9024-4LBS1B

**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





— 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



67.5°		0.7
70°		0.3

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

Scaled Data Report



(END OF REPORT)