

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: P776958

Luminaire Tested: LERS4D02D010-EC4DR100210IC9024-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776958  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LERS4D02D010-EC4DR100210IC9024-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 10° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 332.7 lumens  
Efficiency: N/A  
Efficacy: 65.2 lumens/watt  
Spacing Criteria (0/90/45): 0.17 / 0.17 / 0.18  
Luminous Opening: Circular (Dia: 0.35' 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



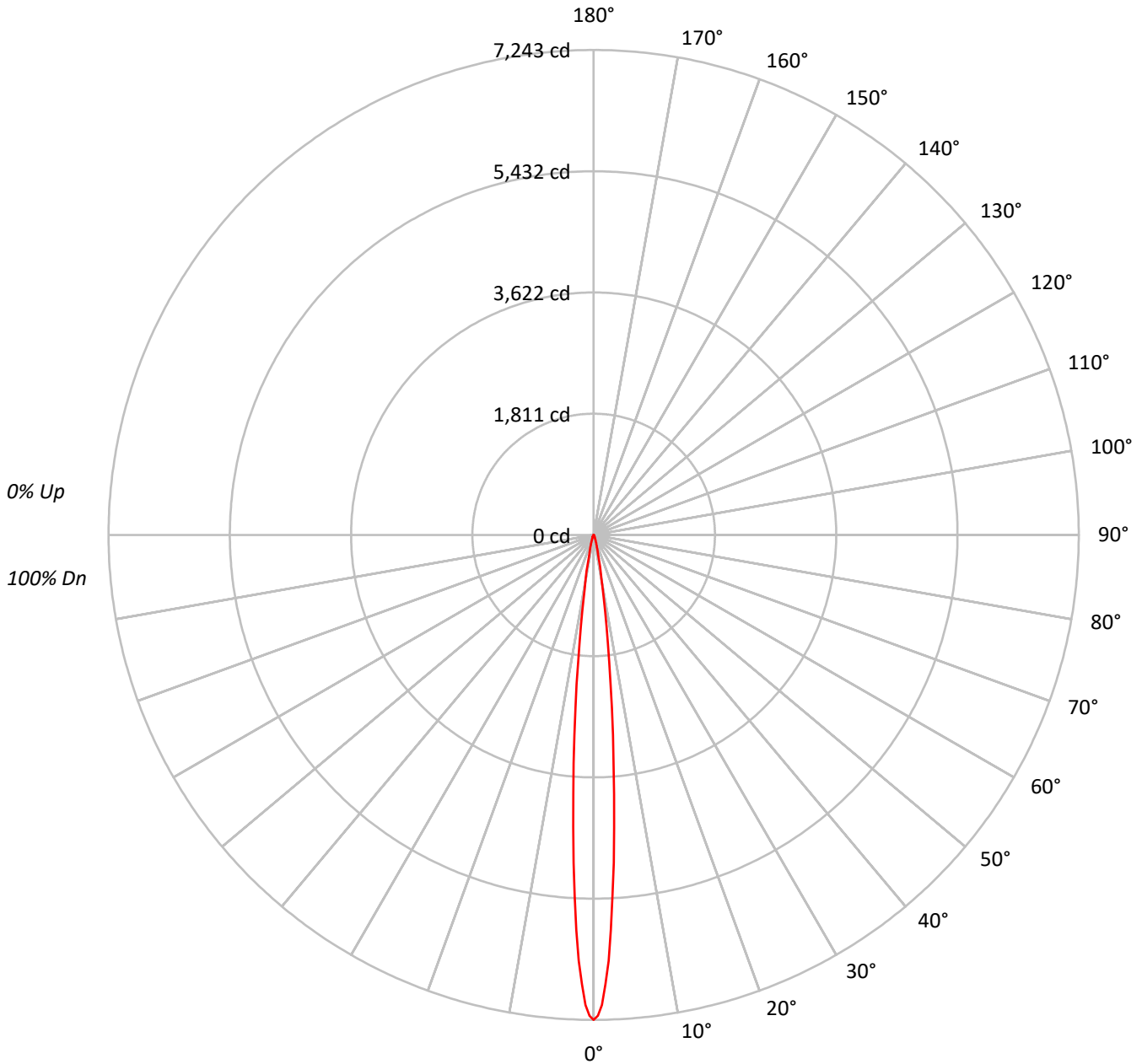
Downlight



TEST NUMBER: P776958

CATALOG NUMBER: LERS4D02D010-EC4DR100210IC9024-4LBS1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P776958

CATALOG NUMBER: LERS4D02D010-EC4DR100210IC9024-4LBS1LI

**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	116	114	113	111	114	112	111	109	108	107	106	104	104	103	101	101	100	98			98																
2	113	110	108	106	111	108	106	104	105	104	102	103	101	100	100	99	98	97			97																
3	111	107	104	102	109	106	103	101	103	101	99	101	99	98	99	98	96	95			95																
4	108	104	101	99	107	103	100	98	101	99	97	99	97	96	98	96	95	94			94																
5	106	102	99	96	105	101	98	96	99	97	95	98	96	94	97	95	94	93			93																
6	104	100	96	94	103	99	96	94	98	95	93	97	94	93	96	94	92	91			91																
7	103	98	95	93	102	97	94	92	96	94	92	95	93	92	95	93	91	90			90																
8	101	96	93	91	100	96	93	91	95	92	91	94	92	90	93	92	90	89			89																
9	100	95	92	90	99	94	92	90	94	91	90	93	91	89	93	91	89	88			88																
10	98	94	91	89	98	93	91	89	93	90	89	92	90	88	92	90	88	87			87																

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

	0°
0°	791419
5°	375286
10°	76963
15°	21130
20°	8511
25°	4569
30°	2700
35°	1761
40°	1170
45°	757
50°	425
55°	305
60°	175
65°	0
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 757 cd/sqm



TEST NUMBER: P776958

CATALOG NUMBER: LERS4D02D010-EC4DR100210IC9024-4LBS1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.6	71.1
10°-20°	64.0	19.2
20°-30°	18.3	5.5
30°-40°	8.4	2.5
40°-50°	3.8	1.2
50°-60°	1.3	0.4
60°-70°	0.3	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°	318.9	95.9
0°-40°	327.3	98.4
0°-60°	332.4	99.9
0°-90°	332.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	332.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7243	
5°	3422	237
15°	187	64
25°	38	18
35°	13	8
45°	5	4
55°	2	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P776958

CATALOG NUMBER: LERS4D02D010-EC4DR100210IC9024-4LBS1LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7243.4
0.5°	7180.9
1°	7020.4
1.5°	6711.0
2°	6364.5
2.5°	5907.0
3°	5398.4
3.5°	4906.3
4°	4375.5
4.5°	3886.7
5°	3421.7
5.5°	3000.4
6°	2598.8
6.5°	2245.8
7°	1913.3
7.5°	1629.4
8°	1377.6
8.5°	1157.0
9°	966.1
9.5°	820.5
10°	693.7
12.5°	330.8
15°	186.8
17.5°	113.6
20°	73.2
22.5°	51.0
25°	37.9
27.5°	28.0
30°	21.4
32.5°	16.5
35°	13.2
37.5°	9.9
40°	8.2
42.5°	6.6
45°	4.9
47.5°	3.3
50°	2.5
52.5°	1.6
55°	1.6
57.5°	0.8
60°	0.8
62.5°	0.8
65°	0.0



TEST NUMBER: P776958

CATALOG NUMBER: LERS4D02D010-EC4DR100210IC9024-4LBS1LI

**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°		0.0
70°		0.0

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

Scaled Data Report



(END OF REPORT)