

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: P777141

Luminaire Tested: LERS4D02D010-EC4DR450210IC9040-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LERS4D02D010-EC4DR450210IC9040-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 45° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 407.7 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.1  
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



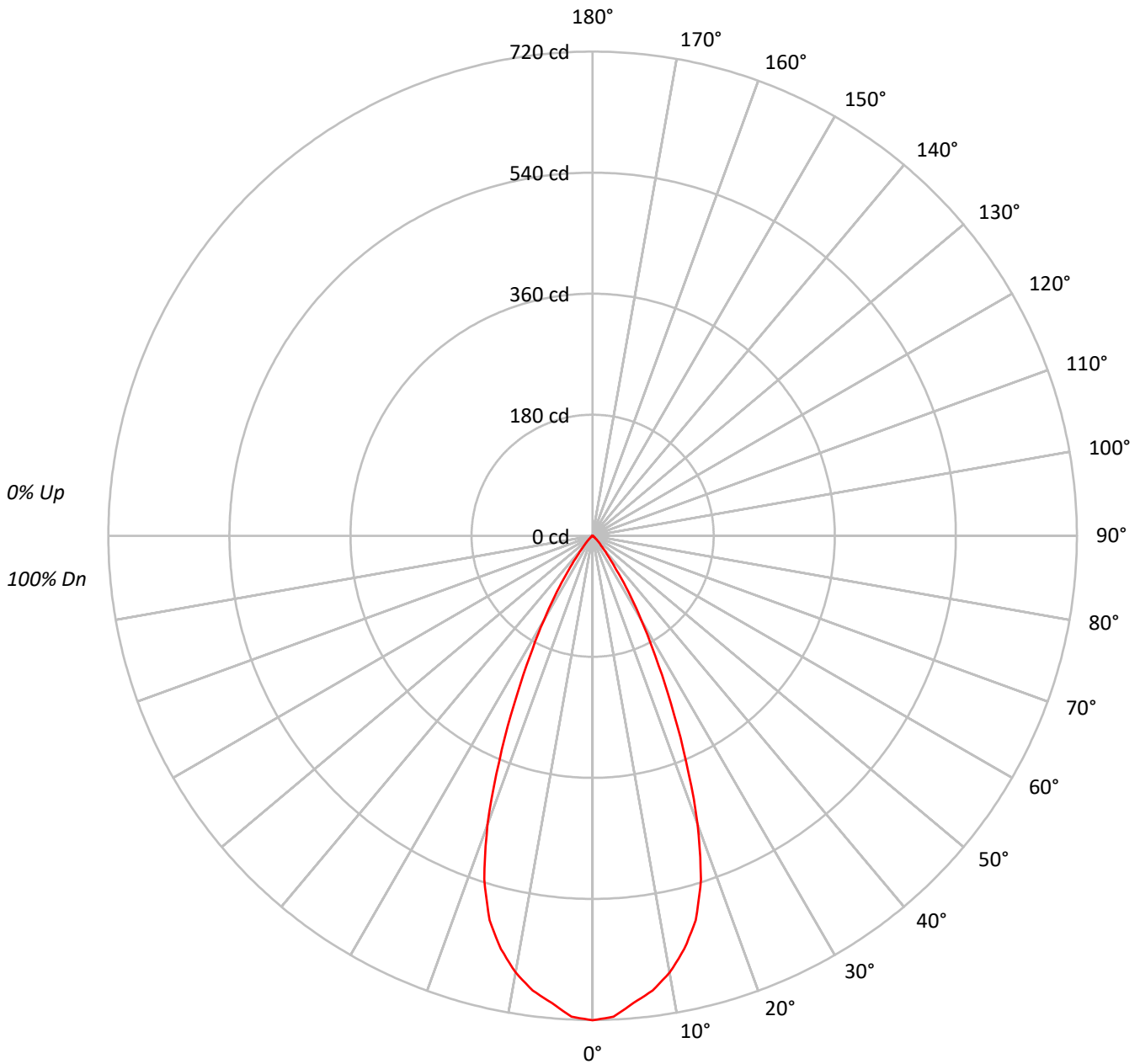
Downlight



TEST NUMBER: P777141

CATALOG NUMBER: LERS4D02D010-EC4DR450210IC9040-4LBS1H

### Luminous Intensity Polar Plot





TEST NUMBER: P777141

CATALOG NUMBER: LERS4D02D010-EC4DR450210IC9040-4LBS1H

**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						100													
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95						95													
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90						90													
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85						85													
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81						81													
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77						77													
6	92	85	79	76	91	84	79	76	82	78	75	81	77	75	80	77	74	73						73													
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69						69													
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66						66													
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63						63													
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60						60													

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

	0°
0°	78722
5°	76479
10°	73169
15°	66964
20°	53125
25°	33165
30°	18281
35°	8203
40°	3238
45°	1530
50°	714
55°	381
60°	197
65°	52
70°	32
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1530 cd/sqm



TEST NUMBER: P777141

CATALOG NUMBER: LERS4D02D010-EC4DR450210IC9040-4LBS1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.5	16.1
10°-20°	161.2	39.6
20°-30°	127.7	31.3
30°-40°	42.5	10.4
40°-50°	8.5	2.1
50°-60°	1.9	0.5
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°	354.4	86.9
0°-40°	397.0	97.4
0°-60°	407.3	99.9
0°-90°	407.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	407.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	720	
5°	697	66
15°	592	161
25°	275	128
35°	62	43
45°	10	8
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P777141

CATALOG NUMBER: LERS4D02D010-EC4DR450210IC9040-4LBS1H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	720.5
2.5°	715.8
5°	697.3
7.5°	682.0
10°	659.5
12.5°	629.4
15°	592.0
17.5°	535.7
20°	456.9
22.5°	363.1
25°	275.1
27.5°	201.4
30°	144.9
32.5°	98.5
35°	61.5
37.5°	36.5
40°	22.7
42.5°	14.9
45°	9.9
47.5°	6.4
50°	4.2
52.5°	2.8
55°	2.0
57.5°	1.3
60°	0.9
62.5°	0.5
65°	0.2
67.5°	0.1
70°	0.1
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)