

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



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: P777999

Luminaire Tested: LERS4D10D010-EC4DR300210IC9030-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777999  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LERS4D10D010-EC4DR300210IC9030-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 976.5 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' 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



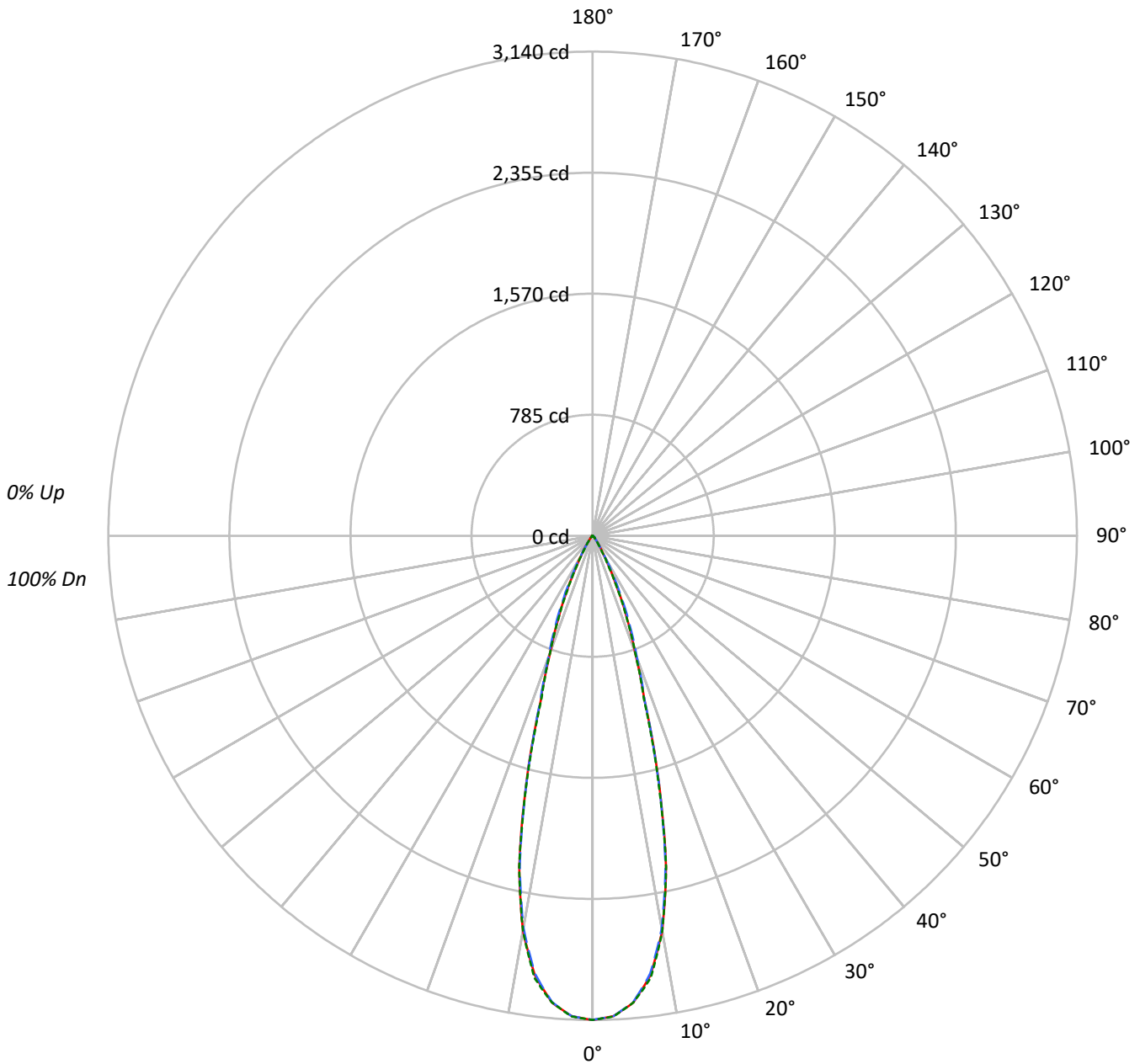
Downlight



TEST NUMBER: P777999

CATALOG NUMBER: LERS4D10D010-EC4DR300210IC9030-4LBS1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P777999

CATALOG NUMBER: LERS4D10D010-EC4DR300210IC9030-4LBS1MW

**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	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

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

	0°	45°	90°
0°	240331	240331	240331
5°	233435	233166	233442
10°	202192	200762	202137
15°	131917	131211	130554
20°	65596	68056	65515
25°	33048	37262	32364
30°	13231	14416	11525
35°	6139	5878	4924
40°	2648	2938	2498
45°	1862	2317	1884
50°	643	1691	679
55°	374	694	387
60°	260	306	260
65°	163	163	163
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 2317 cd/sqm



TEST NUMBER: P777999

CATALOG NUMBER: LERS4D10D010-EC4DR300210IC9030-4LBS1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.1	28.3
10°-20°	444.7	45.5
20°-30°	192.2	19.7
30°-40°	43.8	4.5
40°-50°	15.0	1.5
50°-60°	3.7	0.4
60°-70°	1.0	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°	912.9	93.5
0°-40°	956.7	98.0
0°-60°	975.4	99.9
0°-90°	976.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	976.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3140	3140	3140	3140	3140	
5°	3038	3035	3035	3041	3038	276
15°	1665	1645	1656	1650	1648	446
25°	391	406	441	396	383	187
35°	66	67	63	62	53	45
45°	17	21	21	21	17	12
55°	3	3	5	3	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P777999

CATALOG NUMBER: LERS4D10D010-EC4DR300210IC9030-4LBS1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3139.8	3139.8	3139.8	3139.8	3139.8
2.5°	3119.0	3116.9	3118.1	3119.7	3120.2
5°	3038.1	3035.1	3034.6	3040.9	3038.2
7.5°	2874.8	2870.7	2864.4	2878.7	2892.1
10°	2601.4	2596.7	2583.0	2589.8	2600.7
12.5°	2197.7	2182.7	2182.4	2204.0	2201.0
15°	1664.7	1644.7	1655.8	1650.4	1647.5
17.5°	1119.5	1111.8	1126.6	1122.1	1102.8
20°	805.3	807.3	835.5	821.3	804.3
22.5°	587.6	594.9	628.4	591.8	578.4
25°	391.3	406.1	441.2	395.7	383.2
27.5°	240.6	247.4	283.0	237.5	230.8
30°	149.7	146.3	163.1	140.0	130.4
32.5°	98.2	93.9	99.3	89.1	81.4
35°	65.7	67.0	62.9	62.5	52.7
37.5°	41.0	47.2	41.6	44.4	33.9
40°	26.5	34.2	29.4	32.5	25.0
42.5°	21.7	26.4	24.2	25.7	22.2
45°	17.2	21.4	21.4	21.4	17.4
47.5°	9.6	14.3	18.3	14.7	10.2
50°	5.4	7.2	14.2	7.6	5.7
52.5°	3.7	4.2	9.7	4.3	3.8
55°	2.8	2.9	5.2	3.1	2.9
57.5°	2.2	2.3	2.8	2.3	2.2
60°	1.7	1.7	2.0	1.8	1.7
62.5°	1.3	1.3	1.4	1.3	1.3
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	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°    - - 45°-225°    - - - - 90°-270°

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)