

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: P777994

Luminaire Tested: LERS4D10D010-EC4DR300210IC9027-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777994  
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-EC4DR300210IC9027-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1044.7 lumens  
Efficiency: N/A  
Efficacy: 89.3 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 (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



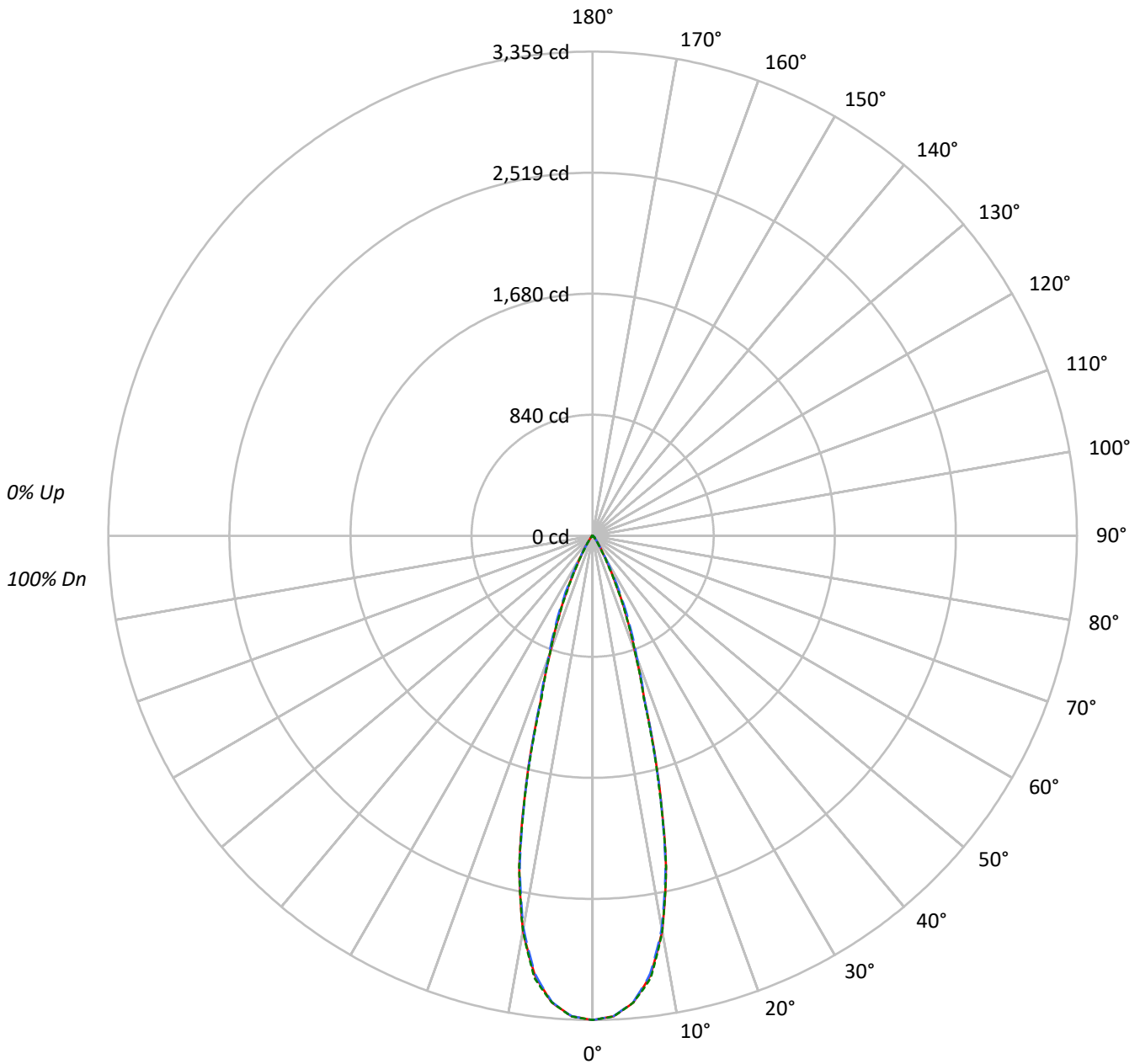
Downlight



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### Luminous Intensity Polar Plot





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**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°	257109	257109	257109
5°	249724	249432	249739
10°	216299	214775	216244
15°	141125	140364	139667
20°	70174	72813	70076
25°	35345	39863	34627
30°	14150	15423	12330
35°	6560	6289	5270
40°	2838	3147	2668
45°	1992	2479	2013
50°	691	1810	726
55°	400	747	427
60°	276	321	276
65°	181	181	181
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: 2479 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.4	28.3
10°-20°	475.7	45.5
20°-30°	205.6	19.7
30°-40°	46.9	4.5
40°-50°	16.1	1.5
50°-60°	3.9	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°	976.6	93.5
0°-40°	1023.5	98.0
0°-60°	1043.5	99.9
0°-90°	1044.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1044.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3359	3359	3359	3359	3359	
5°	3250	3247	3246	3253	3250	296
15°	1781	1760	1771	1766	1762	477
25°	418	434	472	423	410	200
35°	70	72	67	67	56	48
45°	18	23	23	23	19	13
55°	3	3	6	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3359.0	3359.0	3359.0	3359.0	3359.0
2.5°	3336.7	3334.4	3335.7	3337.4	3338.0
5°	3250.1	3247.0	3246.3	3253.1	3250.3
7.5°	3075.5	3071.0	3064.3	3079.6	3093.9
10°	2782.9	2778.0	2763.3	2770.6	2782.2
12.5°	2351.0	2335.0	2334.7	2357.7	2354.7
15°	1780.9	1759.5	1771.3	1765.5	1762.5
17.5°	1197.6	1189.4	1205.2	1200.4	1179.8
20°	861.5	863.7	893.9	878.7	860.3
22.5°	628.6	636.4	672.2	633.1	618.7
25°	418.5	434.4	472.0	423.4	410.0
27.5°	257.4	264.7	302.8	254.2	246.9
30°	160.1	156.5	174.5	149.8	139.5
32.5°	105.0	100.4	106.2	95.3	87.1
35°	70.2	71.7	67.3	66.8	56.4
37.5°	43.9	50.5	44.5	47.5	36.3
40°	28.4	36.6	31.5	34.8	26.7
42.5°	23.3	28.2	25.9	27.6	23.7
45°	18.4	22.9	22.9	22.9	18.6
47.5°	10.2	15.4	19.7	15.6	10.9
50°	5.8	7.7	15.2	8.1	6.1
52.5°	4.0	4.5	10.4	4.6	4.1
55°	3.0	3.2	5.6	3.3	3.2
57.5°	2.3	2.5	3.0	2.5	2.3
60°	1.8	1.8	2.1	2.0	1.8
62.5°	1.3	1.3	1.5	1.3	1.3
65°	1.0	1.0	1.0	1.0	1.0
67.5°	0.5	0.7	0.7	0.7	0.7
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

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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