

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: P777933

Luminaire Tested: LERS4D10D010-EC4DR150210IC9040-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LERS4D10D010-EC4DR150210IC9040-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1152.6 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
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



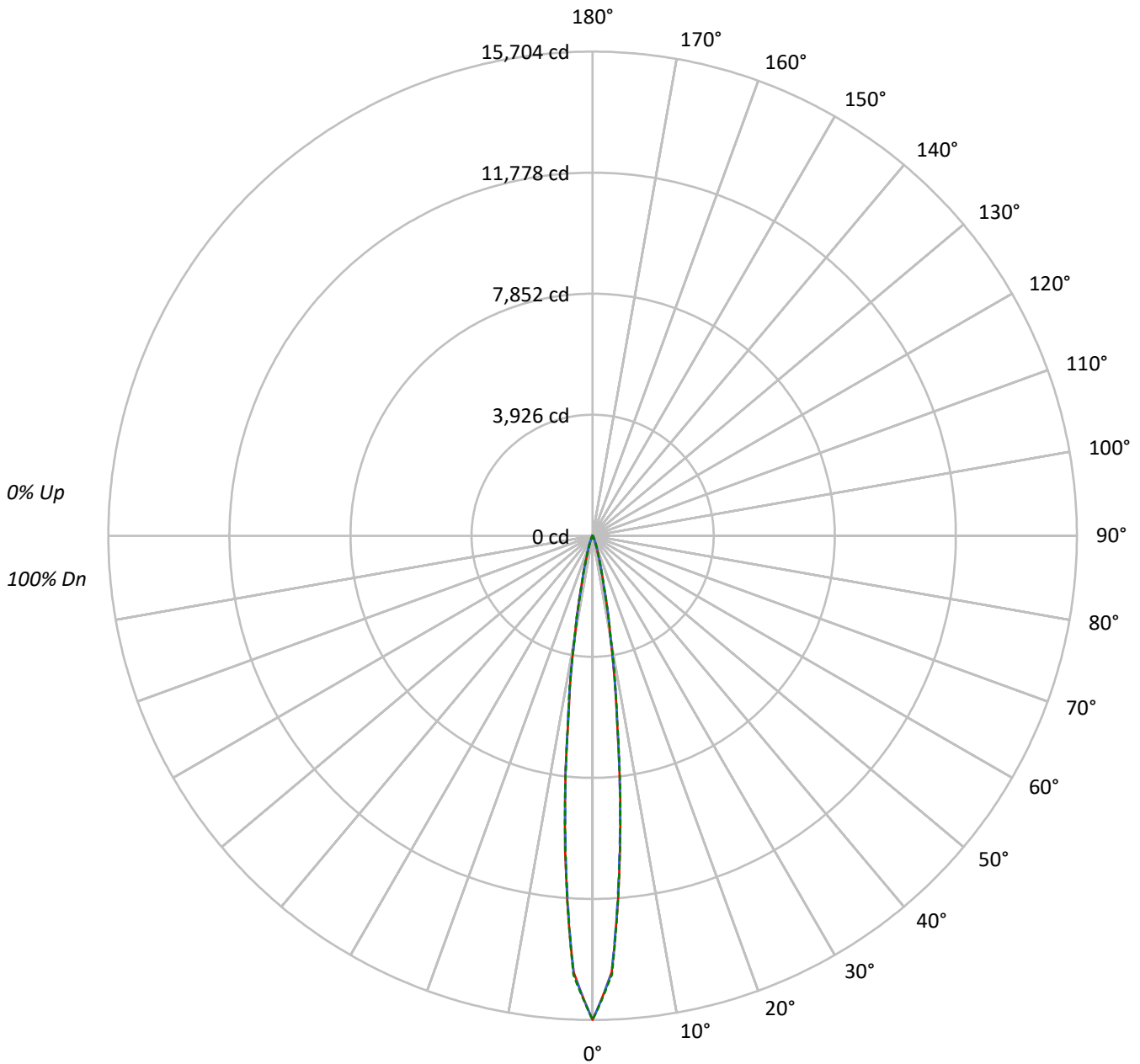
Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

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

	0°	45°	90°
0°	1766991	1766991	1766991
5°	1038363	1024917	1033027
10°	309903	312077	316854
15°	77085	78588	76165
20°	23066	26707	23557
25°	8133	10361	8234
30°	2988	3931	3040
35°	1496	1692	1445
40°	944	1037	944
45°	700	742	700
50°	556	556	556
55°	459	459	459
60°	372	372	372
65°	285	285	285
70°	241	241	241
75°	151	151	204
80°	102	102	102
85°	58	58	58

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 742 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	747.5	64.9
10°-20°	307.5	26.7
20°-30°	61.1	5.3
30°-40°	15.2	1.3
40°-50°	8.0	0.7
50°-60°	5.9	0.5
60°-70°	4.2	0.4
70°-80°	2.4	0.2
80°-90°	0.7	0.1
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°	1116.1	96.8
0°-40°	1131.3	98.2
0°-60°	1145.3	99.4
0°-90°	1152.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1152.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15704	15704	15704	15704	15704	
5°	10217	10112	10085	10155	10165	746
15°	888	904	905	889	877	304
25°	104	118	133	118	106	55
35°	21	22	23	22	20	14
45°	10	10	11	10	10	8
55°	7	7	7	7	7	6
65°	4	4	4	4	4	4
75°	2	2	2	2	3	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15703.8	15703.8	15703.8	15703.8	15703.8
2.5°	14165.5	14177.4	14182.1	14196.0	14247.9
5°	10217.2	10112.2	10084.9	10154.7	10164.7
7.5°	6052.3	6073.6	6151.3	6168.6	6106.1
10°	3321.3	3348.6	3344.6	3368.5	3395.8
12.5°	1698.6	1677.3	1670.6	1697.9	1660.0
15°	887.5	904.1	904.8	888.8	876.9
17.5°	477.3	496.6	528.5	502.6	462.7
20°	281.9	299.2	326.4	305.1	287.9
22.5°	174.2	188.1	207.4	190.8	176.8
25°	104.4	118.3	133.0	117.7	105.7
27.5°	61.8	73.8	83.1	73.1	61.2
30°	39.9	46.5	52.5	45.9	40.6
32.5°	27.9	30.6	33.2	30.6	27.9
35°	20.6	21.9	23.3	21.9	19.9
37.5°	16.0	17.3	17.9	16.6	15.3
40°	13.3	14.0	14.6	14.0	13.3
42.5°	11.3	12.0	12.0	12.0	11.3
45°	10.0	10.0	10.6	10.0	10.0
47.5°	8.6	8.6	9.3	8.6	8.6
50°	8.0	8.0	8.0	8.0	8.0
52.5°	7.3	7.3	7.3	7.3	7.3
55°	6.6	6.6	6.6	6.6	6.6
57.5°	6.0	6.0	6.0	6.0	6.0
60°	5.3	5.3	5.3	5.3	5.3
62.5°	4.7	4.7	4.7	4.7	4.7
65°	4.0	4.0	4.0	4.0	4.0
67.5°	4.0	4.0	4.0	4.0	4.0
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.7	2.7	2.7	2.7	2.7
75°	2.0	2.0	2.0	2.0	2.7
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
85°	0.7	0.7	0.7	0.7	0.7
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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(END OF REPORT)