

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: P777922

Luminaire Tested: LERS4D10D010-EC4DR150210IC9027-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777922  
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-EC4DR150210IC9027-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1080.4 lumens  
Efficiency: N/A  
Efficacy: 92.3 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 (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



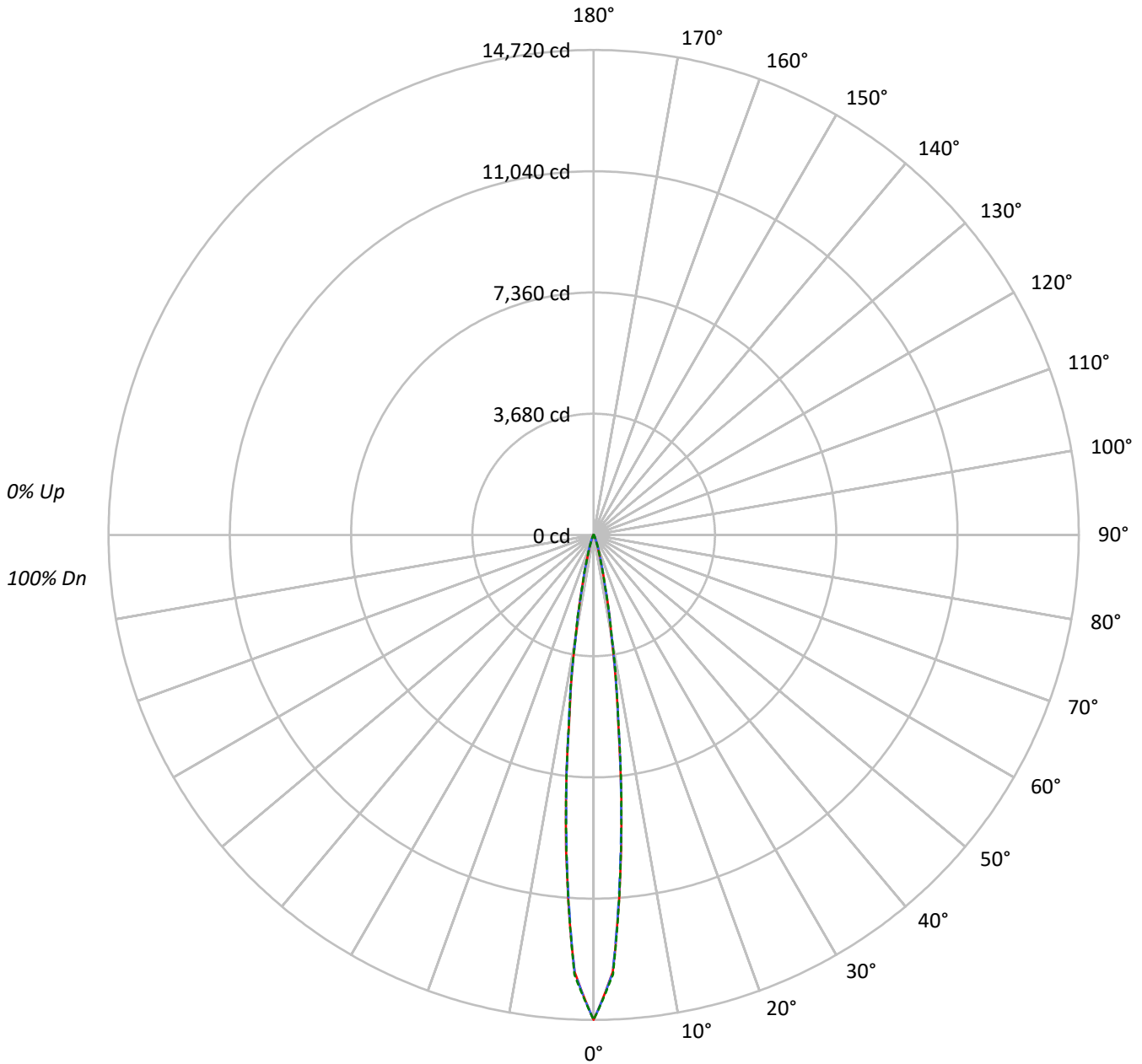
Downlight



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

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

	0°	45°	90°
0°	1656282	1656282	1656282
5°	973310	960708	968300
10°	290485	292519	296998
15°	72256	73663	71388
20°	21618	25038	22076
25°	7619	9706	7720
30°	2801	3684	2845
35°	1402	1583	1358
40°	888	973	888
45°	651	700	651
50°	522	522	522
55°	432	432	432
60°	351	351	351
65°	264	264	264
70°	227	227	227
75°	144	144	189
80°	95	95	95
85°	50	50	50

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 700 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	700.7	64.9
10°-20°	288.2	26.7
20°-30°	57.2	5.3
30°-40°	14.3	1.3
40°-50°	7.5	0.7
50°-60°	5.6	0.5
60°-70°	3.9	0.4
70°-80°	2.2	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°	1046.2	96.8
0°-40°	1060.4	98.2
0°-60°	1073.5	99.4
0°-90°	1080.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1080.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14720	14720	14720	14720	14720	
5°	9577	9479	9453	9518	9528	699
15°	832	848	848	833	822	285
25°	98	111	125	110	99	51
35°	19	21	22	21	19	13
45°	9	9	10	9	9	7
55°	6	6	6	6	6	6
65°	4	4	4	4	4	4
75°	2	2	2	2	2	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°	14719.9	14719.9	14719.9	14719.9	14719.9
2.5°	13277.9	13289.1	13293.5	13306.6	13355.2
5°	9577.1	9478.6	9453.1	9518.5	9527.8
7.5°	5673.1	5693.0	5765.9	5782.1	5723.6
10°	3113.2	3138.8	3135.0	3157.5	3183.0
12.5°	1592.1	1572.2	1566.0	1591.5	1556.0
15°	831.9	847.5	848.1	833.1	821.9
17.5°	447.4	465.5	495.4	471.1	433.7
20°	264.2	280.4	306.0	286.0	269.8
22.5°	163.3	176.3	194.4	178.8	165.8
25°	97.8	110.9	124.6	110.3	99.1
27.5°	58.0	69.2	77.9	68.5	57.3
30°	37.4	43.6	49.2	43.0	38.0
32.5°	26.2	28.7	31.2	28.7	26.2
35°	19.3	20.6	21.8	20.6	18.7
37.5°	15.0	16.2	16.8	15.6	14.3
40°	12.5	13.1	13.7	13.1	12.5
42.5°	10.6	11.2	11.2	11.2	10.6
45°	9.3	9.3	10.0	9.3	9.3
47.5°	8.1	8.1	8.7	8.1	8.1
50°	7.5	7.5	7.5	7.5	7.5
52.5°	6.9	6.9	6.9	6.9	6.9
55°	6.2	6.2	6.2	6.2	6.2
57.5°	5.6	5.6	5.6	5.6	5.6
60°	5.0	5.0	5.0	5.0	5.0
62.5°	4.4	4.4	4.4	4.4	4.4
65°	3.7	3.7	3.7	3.7	3.7
67.5°	3.7	3.7	3.7	3.7	3.7
70°	3.1	3.1	3.1	3.1	3.1
72.5°	2.5	2.5	2.5	2.5	2.5
75°	1.9	1.9	1.9	1.9	2.5
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6
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



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Scaled Data Report







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

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(END OF REPORT)