

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: P741924

Luminaire Tested: LD4D10D010-EU4DR150210IC9040-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741924  
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: LD4D10D010-EU4DR150210IC9040-4LBS1LI  
Description: 4 INCH ROUND SHALLOW 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: 1210.3 lumens  
Efficiency: N/A  
Efficacy: 103.4 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

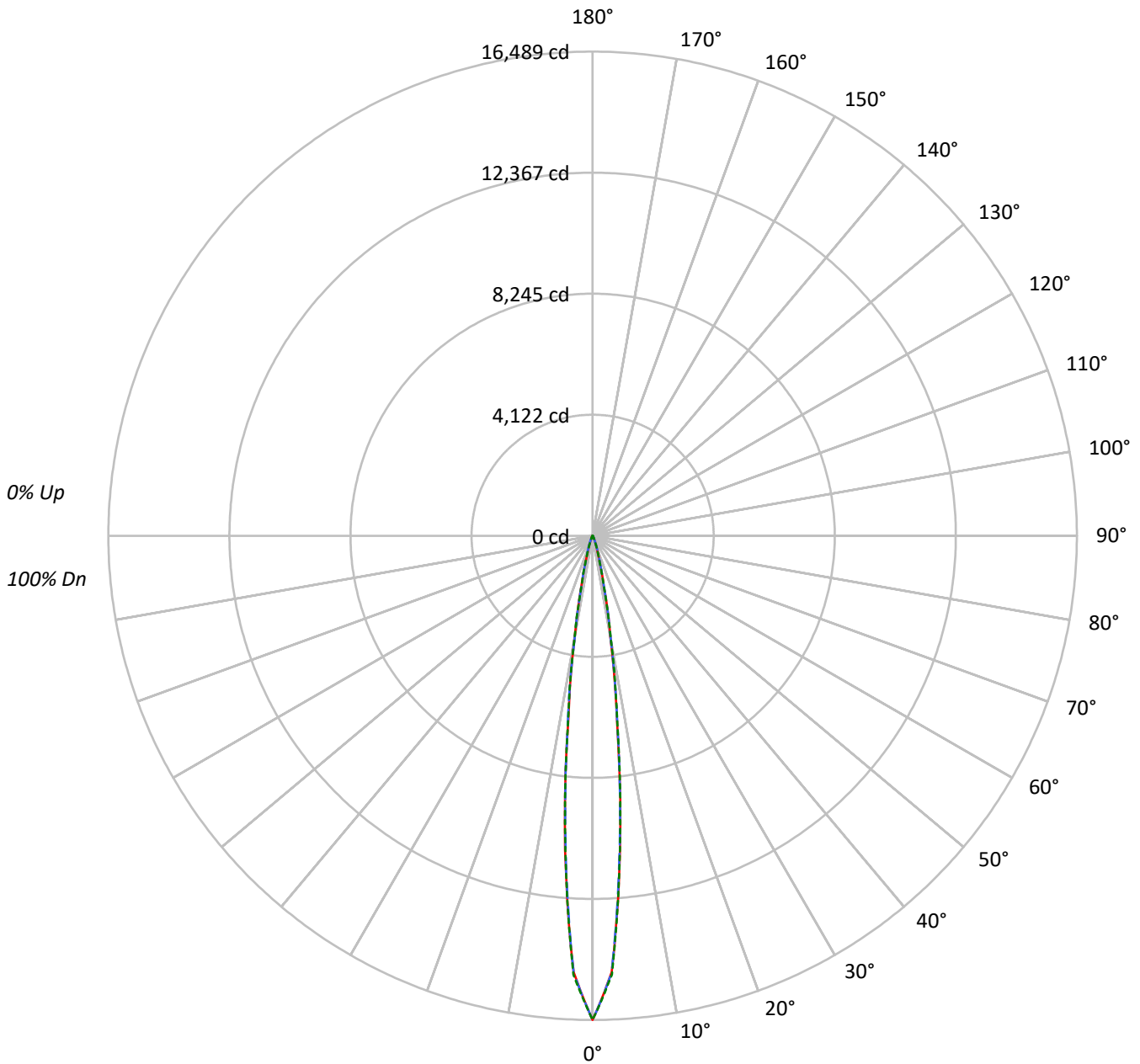


Downlight



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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	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	87	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°	1855341	1855341	1855341
5°	1090285	1076169	1084685
10°	325401	327678	332698
15°	80942	82514	79969
20°	24220	28041	24727
25°	8538	10875	8647
30°	3138	4126	3190
35°	1569	1772	1518
40°	994	1094	994
45°	735	784	735
50°	584	584	584
55°	487	487	487
60°	393	393	393
65°	300	300	300
70°	256	256	256
75°	159	159	212
80°	110	110	110
85°	58	58	58

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 784 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	784.9	64.9
10°-20°	322.9	26.7
20°-30°	64.1	5.3
30°-40°	16.0	1.3
40°-50°	8.4	0.7
50°-60°	6.3	0.5
60°-70°	4.4	0.4
70°-80°	2.5	0.2
80°-90°	0.8	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°	1171.9	96.8
0°-40°	1187.9	98.2
0°-60°	1202.6	99.4
0°-90°	1210.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1210.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16489	16489	16489	16489	16489	
5°	10728	10618	10589	10662	10673	783
15°	932	949	950	933	921	320
25°	110	124	140	124	111	58
35°	22	23	24	23	21	15
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°	16489.0	16489.0	16489.0	16489.0	16489.0
2.5°	14873.7	14886.3	14891.2	14905.8	14960.3
5°	10728.1	10617.8	10589.2	10662.5	10673.0
7.5°	6354.9	6377.2	6458.9	6477.1	6411.5
10°	3487.4	3516.0	3511.8	3536.9	3565.6
12.5°	1783.5	1761.1	1754.2	1782.8	1743.0
15°	931.9	949.3	950.0	933.3	920.7
17.5°	501.2	521.4	554.9	527.7	485.8
20°	296.0	314.1	342.7	320.4	302.2
22.5°	182.9	197.5	217.8	200.3	185.7
25°	109.6	124.3	139.6	123.6	111.0
27.5°	64.9	77.5	87.3	76.8	64.2
30°	41.9	48.9	55.1	48.2	42.6
32.5°	29.3	32.1	34.9	32.1	29.3
35°	21.6	23.0	24.4	23.0	20.9
37.5°	16.8	18.1	18.8	17.5	16.1
40°	14.0	14.7	15.4	14.7	14.0
42.5°	11.9	12.6	12.6	12.6	11.9
45°	10.5	10.5	11.2	10.5	10.5
47.5°	9.1	9.1	9.8	9.1	9.1
50°	8.4	8.4	8.4	8.4	8.4
52.5°	7.7	7.7	7.7	7.7	7.7
55°	7.0	7.0	7.0	7.0	7.0
57.5°	6.3	6.3	6.3	6.3	6.3
60°	5.6	5.6	5.6	5.6	5.6
62.5°	4.9	4.9	4.9	4.9	4.9
65°	4.2	4.2	4.2	4.2	4.2
67.5°	4.2	4.2	4.2	4.2	4.2
70°	3.5	3.5	3.5	3.5	3.5
72.5°	2.8	2.8	2.8	2.8	2.8
75°	2.1	2.1	2.1	2.1	2.8
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4
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

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)