

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: P741900

Luminaire Tested: LD4D10D010-EU4DR150210IC9030-4LBSQW1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741900  
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-EU4DR150210IC9030-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 872.3 lumens  
Efficiency: N/A  
Efficacy: 74.6 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

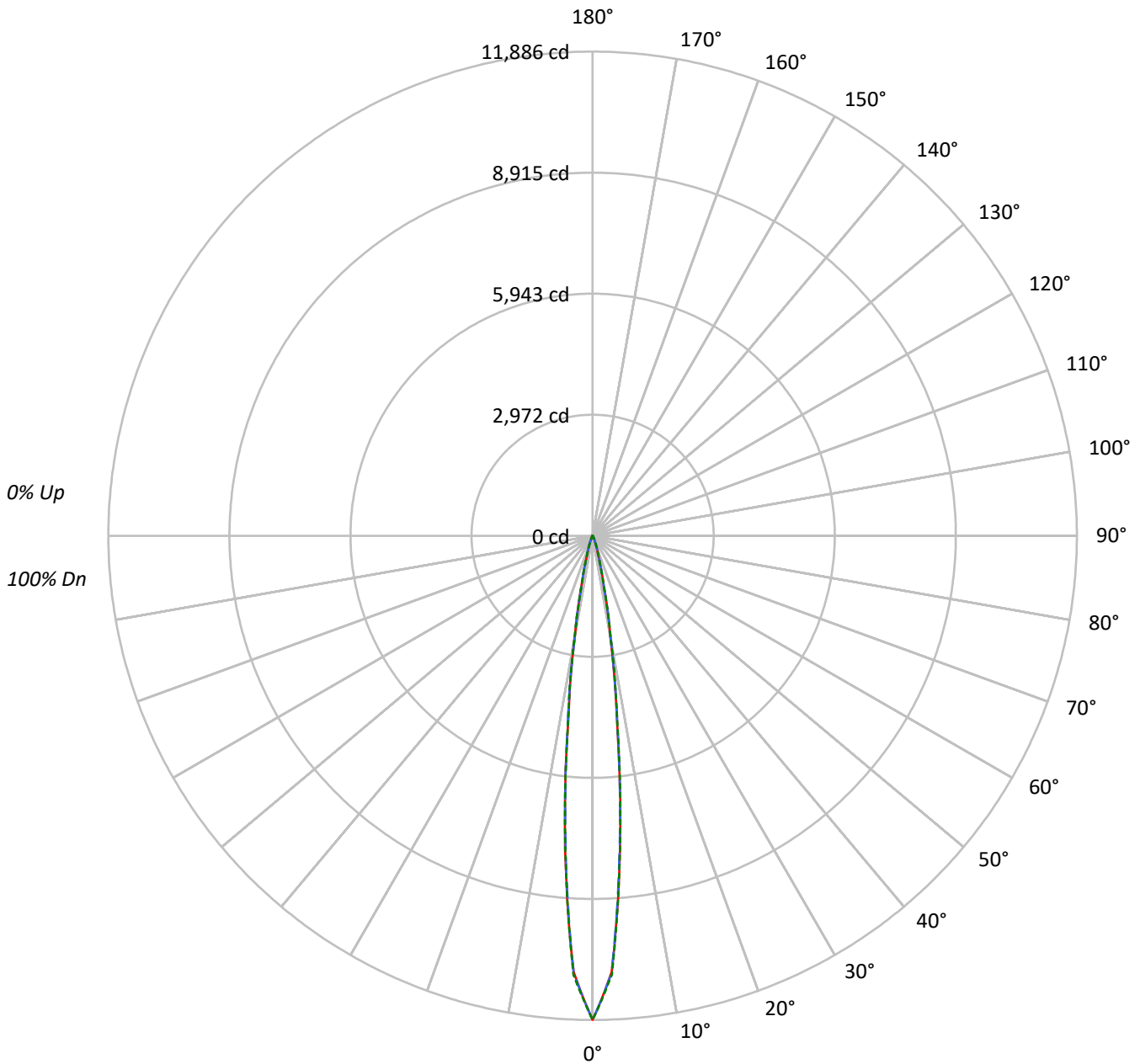


Downlight



TEST NUMBER: P741900  
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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	99	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°	1337390	1337390	1337390
5°	785917	775733	781872
10°	234557	236199	239819
15°	58342	59480	57647
20°	17453	20218	17829
25°	6154	7837	6232
30°	2261	2980	2299
35°	1133	1278	1097
40°	717	788	717
45°	525	567	525
50°	417	417	417
55°	348	348	348
60°	281	281	281
65°	214	214	214
70°	183	183	183
75°	113	113	151
80°	79	79	79
85°	42	42	42

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 567 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	565.8	64.9
10°-20°	232.7	26.7
20°-30°	46.2	5.3
30°-40°	11.5	1.3
40°-50°	6.1	0.7
50°-60°	4.5	0.5
60°-70°	3.2	0.4
70°-80°	1.8	0.2
80°-90°	0.5	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°	844.7	96.8
0°-40°	856.3	98.2
0°-60°	866.8	99.4
0°-90°	872.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11886	11886	11886	11886	11886	
5°	7733	7654	7633	7686	7693	565
15°	672	684	685	673	664	230
25°	79	90	101	89	80	41
35°	16	17	18	17	15	11
45°	8	8	8	8	8	6
55°	5	5	5	5	5	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11885.8	11885.8	11885.8	11885.8	11885.8
2.5°	10721.5	10730.5	10734.1	10744.6	10783.9
5°	7733.2	7653.7	7633.0	7685.9	7693.4
7.5°	4580.8	4596.9	4655.8	4668.9	4621.6
10°	2513.8	2534.5	2531.4	2549.5	2570.2
12.5°	1285.6	1269.5	1264.5	1285.1	1256.4
15°	671.7	684.3	684.8	672.7	663.7
17.5°	361.3	375.9	400.0	380.4	350.2
20°	213.3	226.4	247.1	231.0	217.9
22.5°	131.8	142.4	157.0	144.4	133.8
25°	79.0	89.6	100.6	89.1	80.0
27.5°	46.8	55.9	62.9	55.3	46.3
30°	30.2	35.2	39.8	34.7	30.7
32.5°	21.1	23.1	25.2	23.1	21.1
35°	15.6	16.6	17.6	16.6	15.1
37.5°	12.1	13.1	13.6	12.6	11.6
40°	10.1	10.6	11.1	10.6	10.1
42.5°	8.6	9.1	9.1	9.1	8.6
45°	7.5	7.5	8.1	7.5	7.5
47.5°	6.5	6.5	7.0	6.5	6.5
50°	6.0	6.0	6.0	6.0	6.0
52.5°	5.5	5.5	5.5	5.5	5.5
55°	5.0	5.0	5.0	5.0	5.0
57.5°	4.5	4.5	4.5	4.5	4.5
60°	4.0	4.0	4.0	4.0	4.0
62.5°	3.5	3.5	3.5	3.5	3.5
65°	3.0	3.0	3.0	3.0	3.0
67.5°	3.0	3.0	3.0	3.0	3.0
70°	2.5	2.5	2.5	2.5	2.5
72.5°	2.0	2.0	2.0	2.0	2.0
75°	1.5	1.5	1.5	1.5	2.0
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	0.5	0.5	0.5	0.5	0.5
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)