

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: P741894

Luminaire Tested: LD4D10D010-EU4DR150210IC9030-4LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741894  
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-EU4DR150210IC9030-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1059.7 lumens  
Efficiency: N/A  
Efficacy: 90.6 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



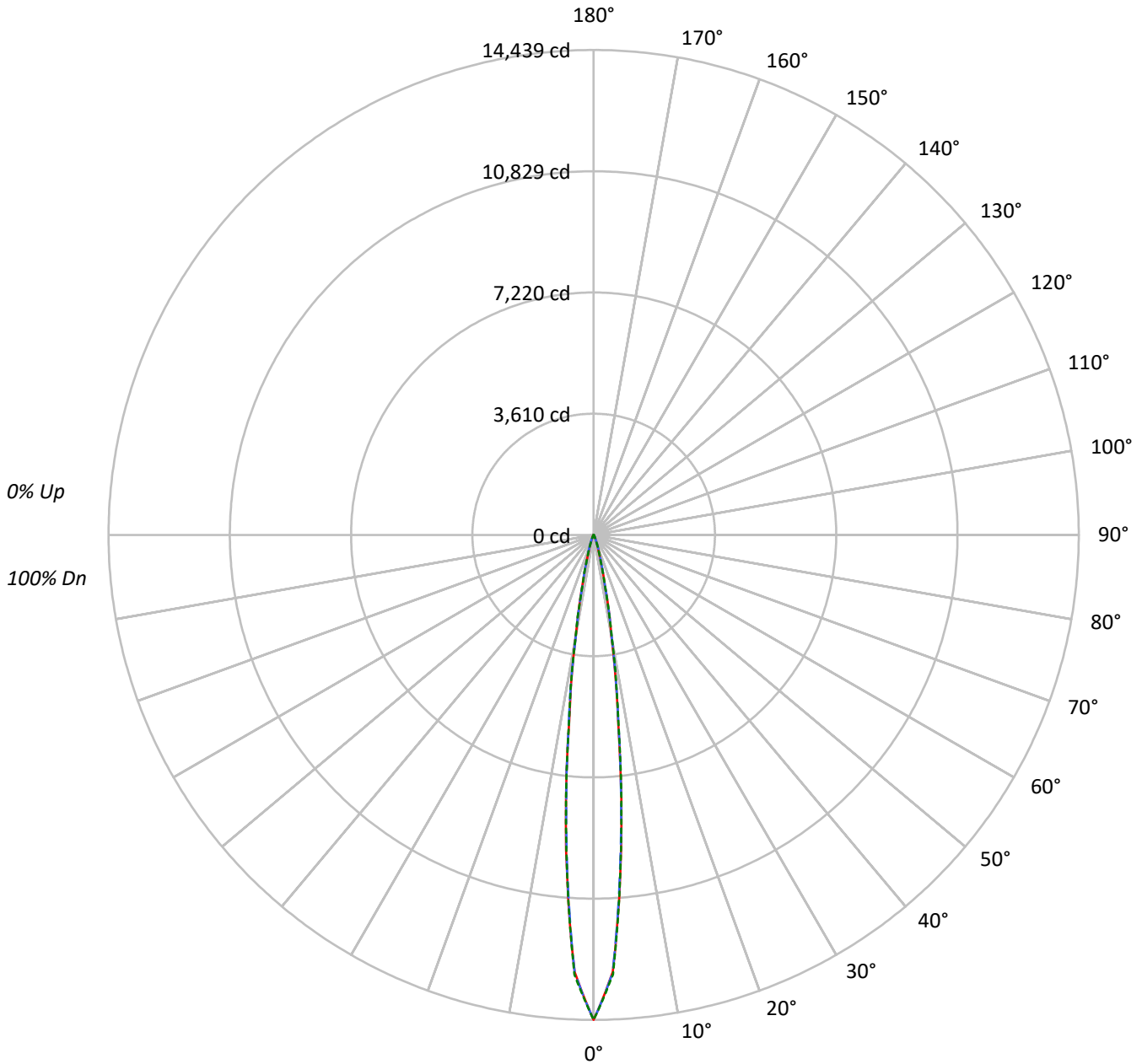
Downlight



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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°	1624698	1624698	1624698
5°	954743	942385	949834
10°	284943	286940	291334
15°	70875	72256	70033
20°	21208	24555	21658
25°	7478	9527	7572
30°	2748	3617	2793
35°	1373	1554	1329
40°	866	952	866
45°	644	686	644
50°	508	508	508
55°	425	425	425
60°	344	344	344
65°	264	264	264
70°	227	227	227
75°	136	136	181
80°	95	95	95
85°	50	50	50

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 686 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	687.3	64.9
10°-20°	282.7	26.7
20°-30°	56.2	5.3
30°-40°	14.0	1.3
40°-50°	7.4	0.7
50°-60°	5.5	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°	1026.2	96.8
0°-40°	1040.2	98.2
0°-60°	1053.0	99.4
0°-90°	1059.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1059.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14439	14439	14439	14439	14439	
5°	9394	9298	9273	9337	9346	686
15°	816	831	832	817	806	280
25°	96	109	122	108	97	50
35°	19	20	21	20	18	13
45°	9	9	10	9	9	7
55°	6	6	6	6	6	5
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°	14439.2	14439.2	14439.2	14439.2	14439.2
2.5°	13024.7	13035.7	13040.0	13052.8	13100.5
5°	9394.4	9297.9	9272.8	9337.0	9346.1
7.5°	5564.9	5584.5	5656.0	5671.9	5614.4
10°	3053.8	3078.9	3075.2	3097.2	3122.3
12.5°	1561.8	1542.2	1536.1	1561.2	1526.3
15°	816.0	831.3	831.9	817.3	806.3
17.5°	438.9	456.6	486.0	462.1	425.4
20°	259.2	275.1	300.1	280.6	264.7
22.5°	160.1	173.0	190.7	175.4	162.6
25°	96.0	108.8	122.3	108.2	97.2
27.5°	56.8	67.8	76.4	67.2	56.2
30°	36.7	42.8	48.3	42.2	37.3
32.5°	25.7	28.1	30.6	28.1	25.7
35°	18.9	20.2	21.4	20.2	18.3
37.5°	14.7	15.9	16.5	15.3	14.1
40°	12.2	12.8	13.4	12.8	12.2
42.5°	10.4	11.0	11.0	11.0	10.4
45°	9.2	9.2	9.8	9.2	9.2
47.5°	7.9	7.9	8.6	7.9	7.9
50°	7.3	7.3	7.3	7.3	7.3
52.5°	6.7	6.7	6.7	6.7	6.7
55°	6.1	6.1	6.1	6.1	6.1
57.5°	5.5	5.5	5.5	5.5	5.5
60°	4.9	4.9	4.9	4.9	4.9
62.5°	4.3	4.3	4.3	4.3	4.3
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°	2.4	2.4	2.4	2.4	2.4
75°	1.8	1.8	1.8	1.8	2.4
77.5°	1.8	1.8	1.8	1.8	1.8
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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