

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: P741881

Luminaire Tested: LD4D10D010-EU4DR150210IC9027-4LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741881  
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-EU4DR150210IC9027-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 1026.4 lumens  
Efficiency: N/A  
Efficacy: 87.7 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



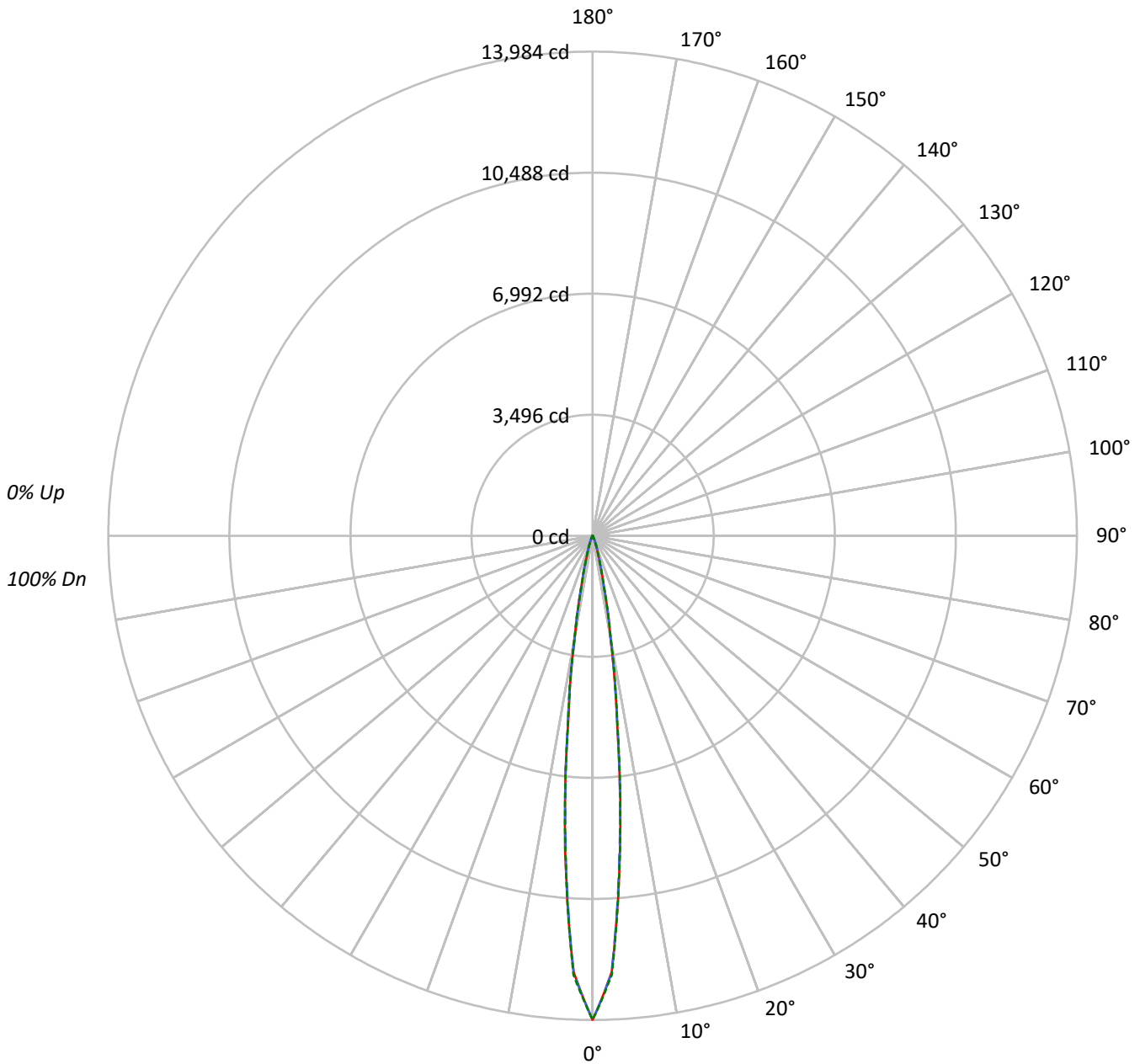
Downlight



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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					70					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°	1573468	1573468	1573468
5°	924640	912668	919884
10°	275967	277898	282153
15°	68643	69981	67818
20°	20538	23786	20971
25°	7237	9223	7330
30°	2658	3504	2703
35°	1336	1503	1293
40°	838	923	838
45°	623	665	623
50°	494	494	494
55°	411	411	411
60°	330	330	330
65°	257	257	257
70°	219	219	219
75°	136	136	181
80°	95	95	95
85°	50	50	50

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 665 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	665.7	64.9
10°-20°	273.8	26.7
20°-30°	54.4	5.3
30°-40°	13.6	1.3
40°-50°	7.1	0.7
50°-60°	5.3	0.5
60°-70°	3.8	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°	993.8	96.8
0°-40°	1007.4	98.2
0°-60°	1019.8	99.4
0°-90°	1026.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1026.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13984	13984	13984	13984	13984	
5°	9098	9005	8980	9043	9051	664
15°	790	805	806	792	781	271
25°	93	105	118	105	94	49
35°	18	20	21	20	18	12
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°	13983.9	13983.9	13983.9	13983.9	13983.9
2.5°	12614.0	12624.7	12628.8	12641.2	12687.4
5°	9098.2	9004.7	8980.4	9042.6	9051.4
7.5°	5389.4	5408.4	5477.6	5493.0	5437.4
10°	2957.6	2981.8	2978.3	2999.6	3023.9
12.5°	1512.5	1493.6	1487.7	1511.9	1478.2
15°	790.3	805.1	805.7	791.5	780.8
17.5°	425.0	442.2	470.6	447.5	412.0
20°	251.0	266.4	290.7	271.7	256.3
22.5°	155.1	167.5	184.7	169.9	157.5
25°	92.9	105.4	118.4	104.8	94.1
27.5°	55.1	65.7	74.0	65.1	54.5
30°	35.5	41.4	46.8	40.8	36.1
32.5°	24.9	27.2	29.6	27.2	24.9
35°	18.4	19.5	20.7	19.5	17.8
37.5°	14.2	15.4	16.0	14.8	13.6
40°	11.8	12.4	13.0	12.4	11.8
42.5°	10.1	10.7	10.7	10.7	10.1
45°	8.9	8.9	9.5	8.9	8.9
47.5°	7.7	7.7	8.3	7.7	7.7
50°	7.1	7.1	7.1	7.1	7.1
52.5°	6.5	6.5	6.5	6.5	6.5
55°	5.9	5.9	5.9	5.9	5.9
57.5°	5.3	5.3	5.3	5.3	5.3
60°	4.7	4.7	4.7	4.7	4.7
62.5°	4.1	4.1	4.1	4.1	4.1
65°	3.6	3.6	3.6	3.6	3.6
67.5°	3.6	3.6	3.6	3.6	3.6
70°	3.0	3.0	3.0	3.0	3.0
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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