

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P741907

Luminaire Tested: LD4D10D010-EU4DR150210IC9035-4LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741907  
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-EU4DR150210IC9035-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1118.8 lumens  
Efficiency: N/A  
Efficacy: 95.6 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 (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



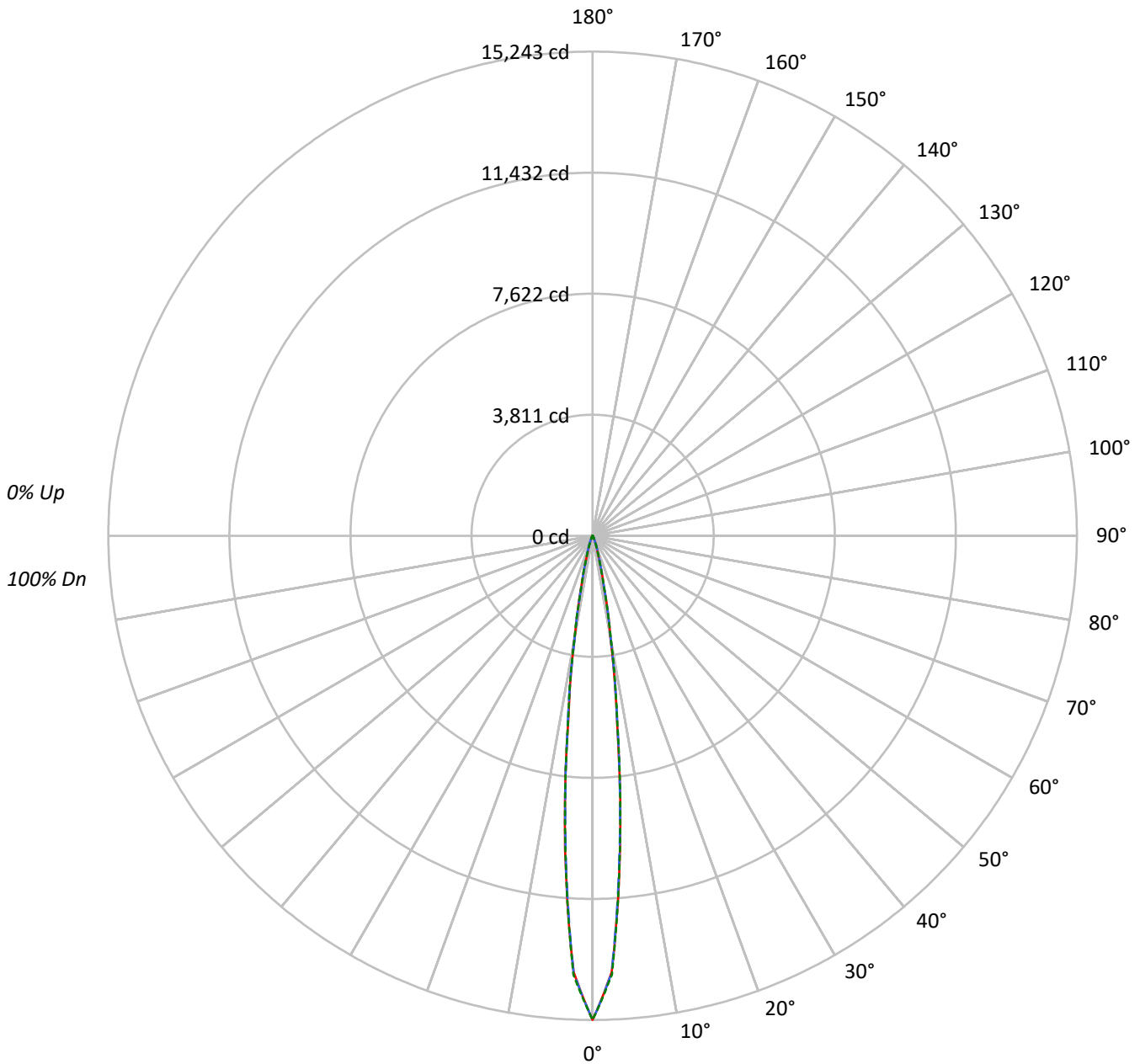
Downlight



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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	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°	1715153	1715153	1715153
5°	1007905	994856	1002722
10°	300814	302923	307551
15°	74827	76278	73924
20°	22387	25921	22861
25°	7891	10057	7993
30°	2898	3819	2950
35°	1452	1641	1409
40°	916	1008	916
45°	679	721	679
50°	535	535	535
55°	452	452	452
60°	365	365	365
65°	278	278	278
70°	234	234	234
75°	144	144	197
80°	102	102	102
85°	50	50	50

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 721 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	725.6	64.9
10°-20°	298.5	26.7
20°-30°	59.3	5.3
30°-40°	14.8	1.3
40°-50°	7.8	0.7
50°-60°	5.8	0.5
60°-70°	4.1	0.4
70°-80°	2.3	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°	1083.3	96.8
0°-40°	1098.1	98.2
0°-60°	1111.7	99.4
0°-90°	1118.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1118.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15243	15243	15243	15243	15243	
5°	9918	9816	9789	9857	9866	724
15°	862	878	878	863	851	295
25°	101	115	129	114	103	53
35°	20	21	23	21	19	14
45°	10	10	10	10	10	8
55°	6	6	6	6	6	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°	15243.1	15243.1	15243.1	15243.1	15243.1
2.5°	13749.9	13761.5	13766.0	13779.5	13829.9
5°	9917.5	9815.5	9789.1	9856.8	9866.5
7.5°	5874.7	5895.4	5970.9	5987.7	5927.0
10°	3223.9	3250.3	3246.5	3269.7	3296.1
12.5°	1648.7	1628.1	1621.6	1648.1	1611.3
15°	861.5	877.6	878.2	862.8	851.1
17.5°	463.3	482.0	513.0	487.8	449.1
20°	273.6	290.4	316.8	296.2	279.4
22.5°	169.1	182.6	201.3	185.2	171.6
25°	101.3	114.9	129.1	114.2	102.6
27.5°	60.0	71.6	80.7	71.0	59.4
30°	38.7	45.2	51.0	44.5	39.4
32.5°	27.1	29.7	32.3	29.7	27.1
35°	20.0	21.3	22.6	21.3	19.4
37.5°	15.5	16.8	17.4	16.1	14.8
40°	12.9	13.6	14.2	13.6	12.9
42.5°	11.0	11.6	11.6	11.6	11.0
45°	9.7	9.7	10.3	9.7	9.7
47.5°	8.4	8.4	9.0	8.4	8.4
50°	7.7	7.7	7.7	7.7	7.7
52.5°	7.1	7.1	7.1	7.1	7.1
55°	6.5	6.5	6.5	6.5	6.5
57.5°	5.8	5.8	5.8	5.8	5.8
60°	5.2	5.2	5.2	5.2	5.2
62.5°	4.5	4.5	4.5	4.5	4.5
65°	3.9	3.9	3.9	3.9	3.9
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.2	3.2	3.2	3.2	3.2
72.5°	2.6	2.6	2.6	2.6	2.6
75°	1.9	1.9	1.9	1.9	2.6
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
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

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Scaled Data Report



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Scaled Data Report







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

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(END OF REPORT)