

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: P742910

Luminaire Tested: LD4D15D010-EU4DR1515309030-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742910  
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: LD4D15D010-EU4DR1515309030-4LBS1LI  
Description: 4 INCH ROUND SHALLOW 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: 1499.0 lumens  
Efficiency: N/A  
Efficacy: 94.9 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): 15.8  
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

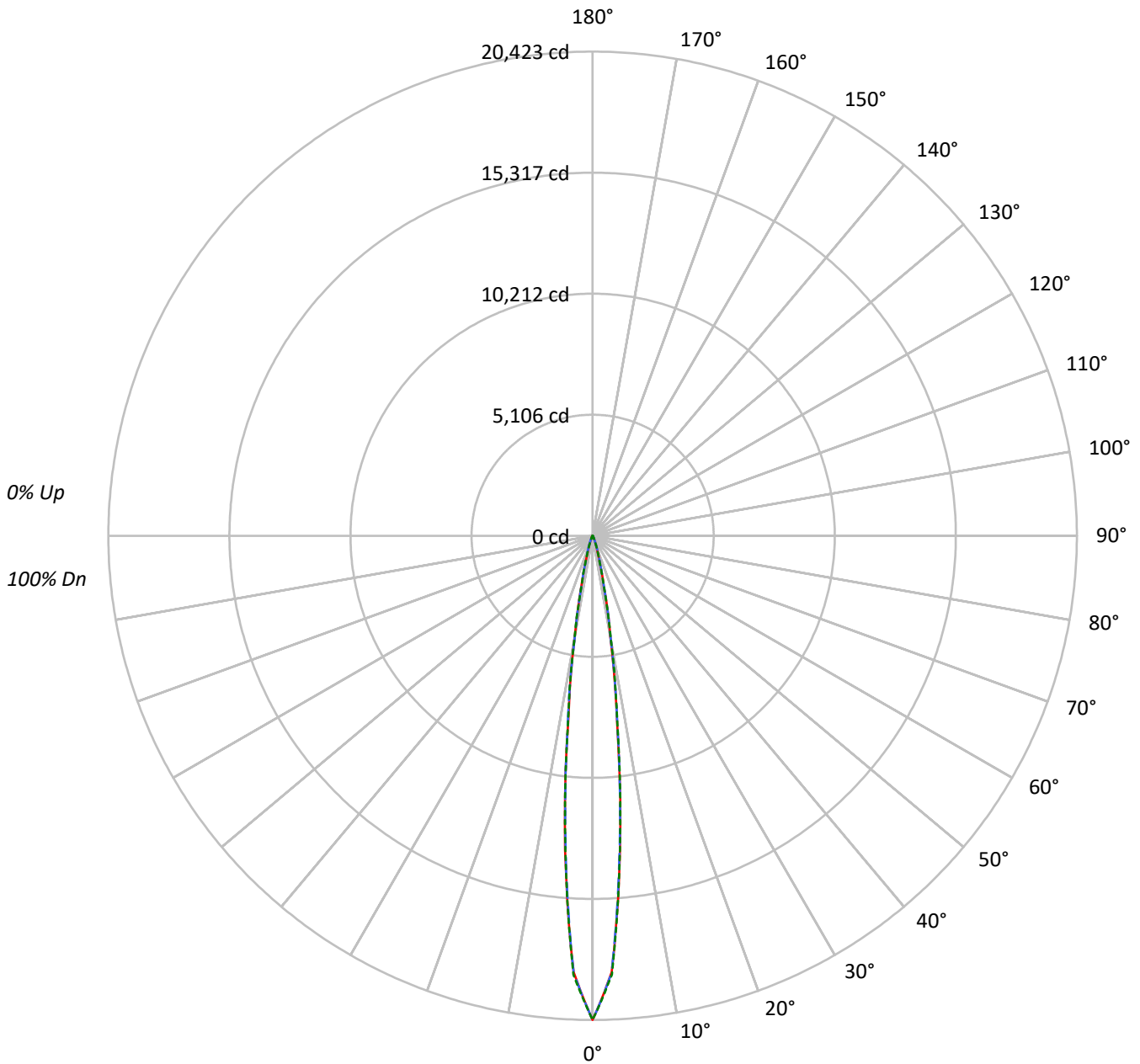


Downlight



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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°	2298040	2298040	2298040
5°	1350435	1332944	1343493
10°	403042	405869	412074
15°	100250	102204	99052
20°	29996	34734	30634
25°	10571	13469	10711
30°	3886	5114	3946
35°	1946	2200	1881
40°	1229	1349	1229
45°	910	966	910
50°	723	723	723
55°	599	599	599
60°	484	484	484
65°	371	371	371
70°	314	314	314
75°	197	197	265
80°	134	134	134
85°	75	75	75

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 966 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	972.2	64.9
10°-20°	399.9	26.7
20°-30°	79.4	5.3
30°-40°	19.8	1.3
40°-50°	10.4	0.7
50°-60°	7.7	0.5
60°-70°	5.5	0.4
70°-80°	3.1	0.2
80°-90°	0.9	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°	1451.5	96.8
0°-40°	1471.3	98.2
0°-60°	1489.5	99.4
0°-90°	1499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1499.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20423	20423	20423	20423	20423	
5°	13288	13151	13116	13207	13220	970
15°	1154	1176	1177	1156	1140	396
25°	136	154	173	153	138	71
35°	27	28	30	28	26	18
45°	13	13	14	13	13	10
55°	9	9	9	9	9	8
65°	5	5	5	5	5	5
75°	3	3	3	3	4	3
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°	20423.4	20423.4	20423.4	20423.4	20423.4
2.5°	18422.7	18438.3	18444.3	18462.5	18529.9
5°	13287.9	13151.3	13115.8	13206.6	13219.6
7.5°	7871.2	7898.9	8000.1	8022.5	7941.3
10°	4319.5	4354.9	4349.8	4380.9	4416.3
12.5°	2209.0	2181.4	2172.7	2208.2	2158.9
15°	1154.2	1175.8	1176.7	1156.0	1140.4
17.5°	620.8	645.8	687.3	653.6	601.8
20°	366.6	389.1	424.5	396.8	374.4
22.5°	226.5	244.7	269.8	248.1	230.0
25°	135.7	153.9	172.9	153.0	137.5
27.5°	80.4	96.0	108.1	95.1	79.5
30°	51.9	60.5	68.3	59.7	52.7
32.5°	36.3	39.8	43.2	39.8	36.3
35°	26.8	28.5	30.3	28.5	25.9
37.5°	20.8	22.5	23.3	21.6	19.9
40°	17.3	18.2	19.0	18.2	17.3
42.5°	14.7	15.6	15.6	15.6	14.7
45°	13.0	13.0	13.8	13.0	13.0
47.5°	11.2	11.2	12.1	11.2	11.2
50°	10.4	10.4	10.4	10.4	10.4
52.5°	9.5	9.5	9.5	9.5	9.5
55°	8.6	8.6	8.6	8.6	8.6
57.5°	7.8	7.8	7.8	7.8	7.8
60°	6.9	6.9	6.9	6.9	6.9
62.5°	6.1	6.1	6.1	6.1	6.1
65°	5.2	5.2	5.2	5.2	5.2
67.5°	5.2	5.2	5.2	5.2	5.2
70°	4.3	4.3	4.3	4.3	4.3
72.5°	3.5	3.5	3.5	3.5	3.5
75°	2.6	2.6	2.6	2.6	3.5
77.5°	2.6	2.6	2.6	2.6	2.6
80°	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7
85°	0.9	0.9	0.9	0.9	0.9
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)