

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: P742881

Luminaire Tested: LD4D15D010-EU4DR1515309024-4LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742881  
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-EU4DR1515309024-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1146.0 lumens  
Efficiency: N/A  
Efficacy: 72.5 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 (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



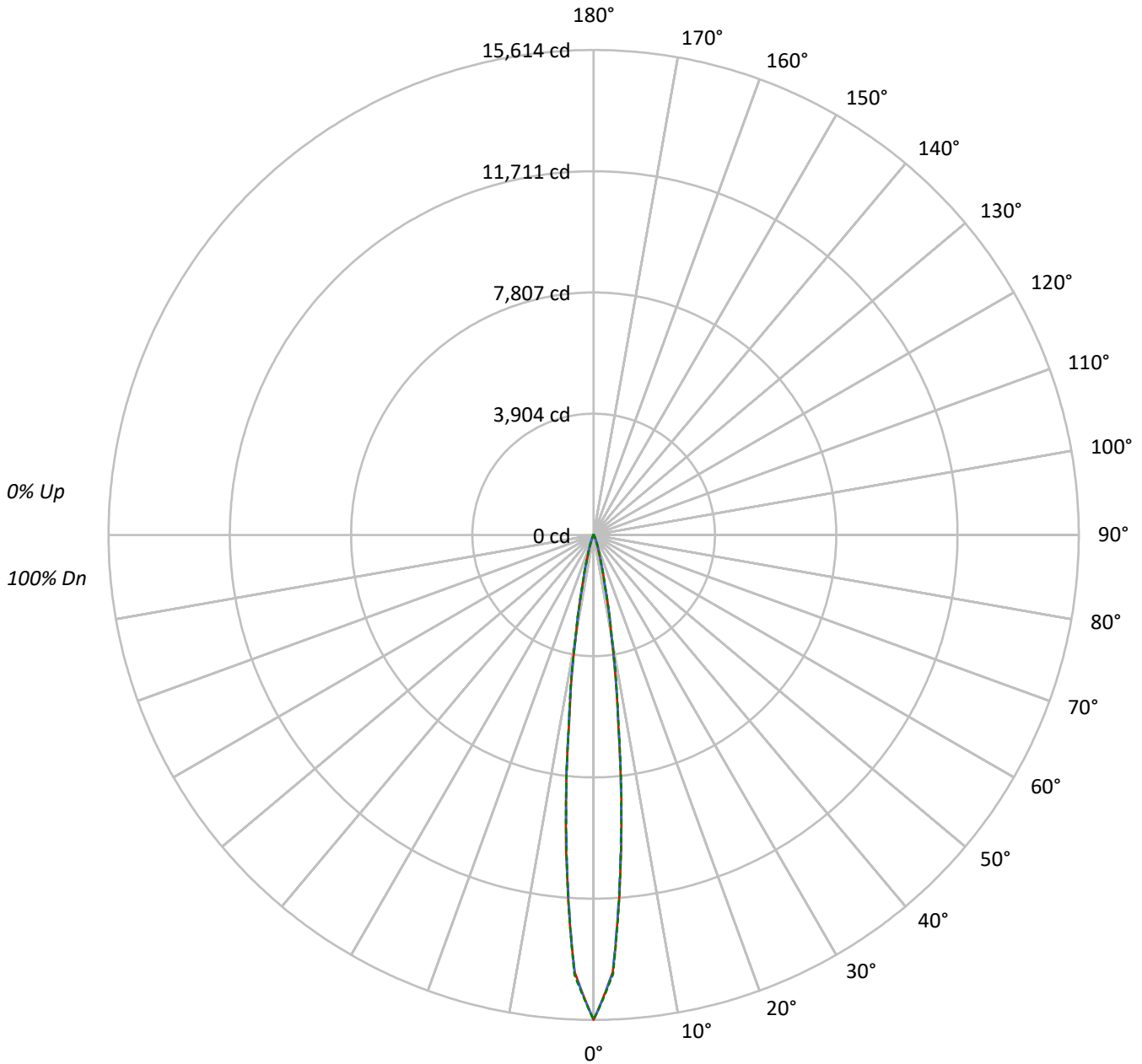
Downlight



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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	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	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°	1756920	1756920	1756920
5°	1032448	1019084	1027143
10°	308139	310294	315044
15°	76642	78136	75730
20°	22935	26560	23418
25°	8086	10298	8187
30°	2973	3909	3018
35°	1489	1678	1438
40°	937	1030	937
45°	693	742	693
50°	549	549	549
55°	459	459	459
60°	372	372	372
65°	285	285	285
70°	241	241	241
75°	151	151	197
80°	102	102	102
85°	58	58	58

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 742 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	743.3	64.9
10°-20°	305.7	26.7
20°-30°	60.7	5.3
30°-40°	15.2	1.3
40°-50°	8.0	0.7
50°-60°	5.9	0.5
60°-70°	4.2	0.4
70°-80°	2.4	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°	1109.7	96.8
0°-40°	1124.9	98.2
0°-60°	1138.7	99.4
0°-90°	1146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1146.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15614	15614	15614	15614	15614	
5°	10159	10055	10028	10097	10107	742
15°	882	899	900	884	872	303
25°	104	118	132	117	105	55
35°	20	22	23	22	20	14
45°	10	10	11	10	10	8
55°	7	7	7	7	7	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°	15614.3	15614.3	15614.3	15614.3	15614.3
2.5°	14084.7	14096.6	14101.2	14115.1	14166.7
5°	10159.0	10054.6	10027.5	10096.9	10106.8
7.5°	6017.8	6039.0	6116.3	6133.5	6071.3
10°	3302.4	3329.5	3325.5	3349.3	3376.4
12.5°	1688.9	1667.7	1661.1	1688.2	1650.5
15°	882.4	899.0	899.6	883.8	871.9
17.5°	474.6	493.8	525.5	499.7	460.1
20°	280.3	297.5	324.6	303.4	286.2
22.5°	173.2	187.1	206.2	189.7	175.8
25°	103.8	117.7	132.2	117.0	105.1
27.5°	61.5	73.4	82.6	72.7	60.8
30°	39.7	46.3	52.2	45.6	40.3
32.5°	27.8	30.4	33.1	30.4	27.8
35°	20.5	21.8	23.1	21.8	19.8
37.5°	15.9	17.2	17.8	16.5	15.2
40°	13.2	13.9	14.5	13.9	13.2
42.5°	11.2	11.9	11.9	11.9	11.2
45°	9.9	9.9	10.6	9.9	9.9
47.5°	8.6	8.6	9.3	8.6	8.6
50°	7.9	7.9	7.9	7.9	7.9
52.5°	7.3	7.3	7.3	7.3	7.3
55°	6.6	6.6	6.6	6.6	6.6
57.5°	5.9	5.9	5.9	5.9	5.9
60°	5.3	5.3	5.3	5.3	5.3
62.5°	4.6	4.6	4.6	4.6	4.6
65°	4.0	4.0	4.0	4.0	4.0
67.5°	4.0	4.0	4.0	4.0	4.0
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.6	2.6	2.6	2.6	2.6
75°	2.0	2.0	2.0	2.0	2.6
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
85°	0.7	0.7	0.7	0.7	0.7
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)