

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: P742950

Luminaire Tested: LD4D15D010-EU4DR1515309050-4LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742950  
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-EU4DR1515309050-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1320.7 lumens  
Efficiency: N/A  
Efficacy: 83.6 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): 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



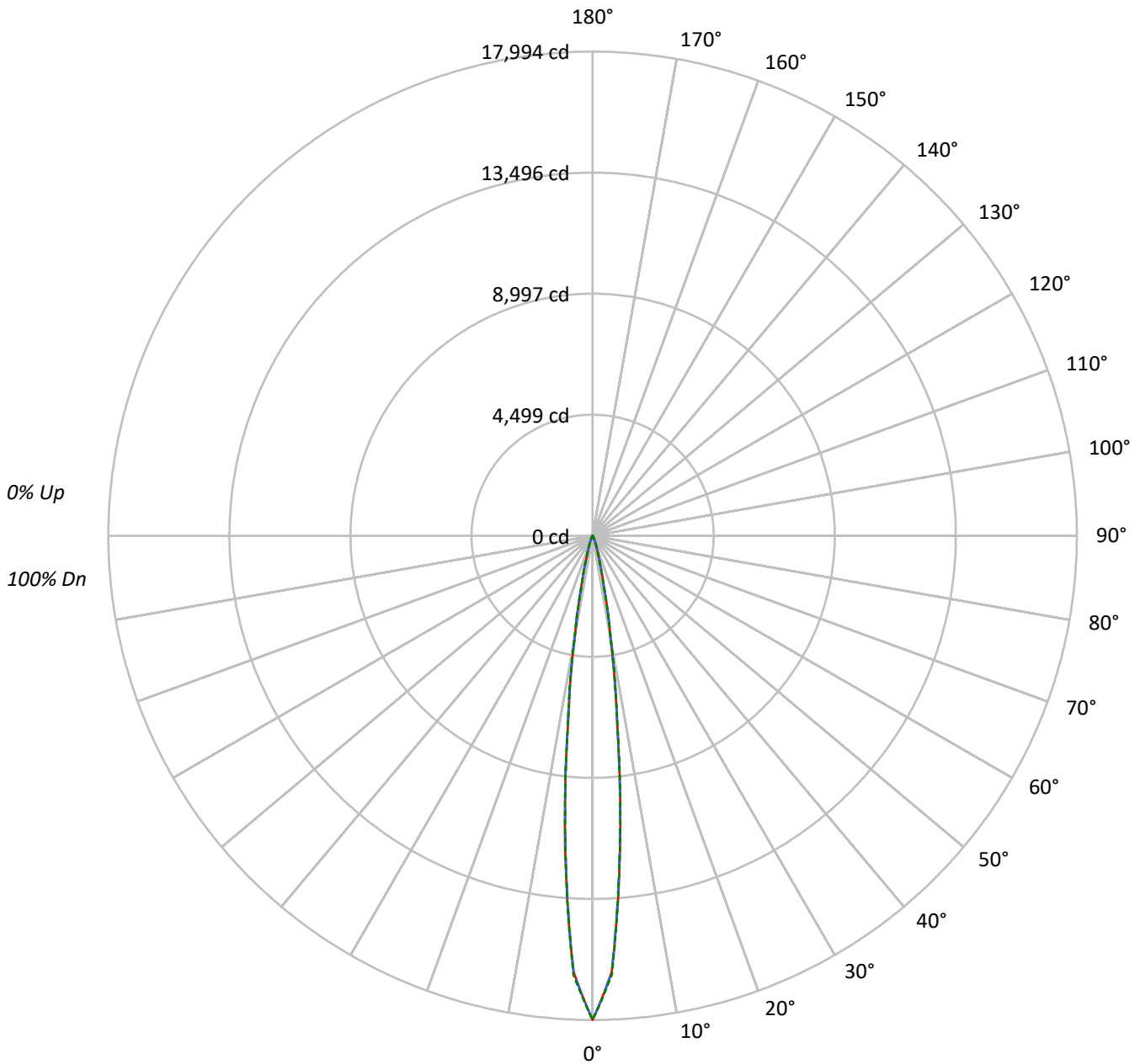
Downlight



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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°	2024684	2024684	2024684
5°	1189800	1174393	1183682
10°	355101	357583	363060
15°	88325	90044	87265
20°	26429	30602	26985
25°	9317	11864	9434
30°	3422	4508	3482
35°	1714	1939	1663
40°	1079	1193	1079
45°	798	854	798
50°	633	633	633
55°	529	529	529
60°	428	428	428
65°	328	328	328
70°	278	278	278
75°	174	174	227
80°	118	118	118
85°	66	66	66

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 854 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	856.5	64.9
10°-20°	352.3	26.7
20°-30°	70.0	5.3
30°-40°	17.5	1.3
40°-50°	9.2	0.7
50°-60°	6.8	0.5
60°-70°	4.8	0.4
70°-80°	2.7	0.2
80°-90°	0.8	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°	1278.9	96.8
0°-40°	1296.3	98.2
0°-60°	1312.3	99.4
0°-90°	1320.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1320.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17994	17994	17994	17994	17994	
5°	11707	11587	11556	11636	11647	855
15°	1017	1036	1037	1018	1005	349
25°	120	136	152	135	121	63
35°	24	25	27	25	23	16
45°	11	11	12	11	11	9
55°	8	8	8	8	8	7
65°	5	5	5	5	5	5
75°	2	2	2	2	3	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°	17994.0	17994.0	17994.0	17994.0	17994.0
2.5°	16231.3	16245.0	16250.3	16266.3	16325.7
5°	11707.3	11586.9	11555.7	11635.7	11647.1
7.5°	6934.9	6959.3	7048.4	7068.2	6996.6
10°	3805.7	3836.9	3832.3	3859.8	3891.0
12.5°	1946.3	1921.9	1914.3	1945.5	1902.1
15°	1016.9	1036.0	1036.7	1018.5	1004.7
17.5°	546.9	569.0	605.6	575.9	530.2
20°	323.0	342.8	374.0	349.6	329.8
22.5°	199.6	215.6	237.7	218.6	202.6
25°	119.6	135.6	152.3	134.8	121.1
27.5°	70.8	84.6	95.2	83.8	70.1
30°	45.7	53.3	60.2	52.6	46.5
32.5°	32.0	35.0	38.1	35.0	32.0
35°	23.6	25.1	26.7	25.1	22.9
37.5°	18.3	19.8	20.6	19.0	17.5
40°	15.2	16.0	16.8	16.0	15.2
42.5°	12.9	13.7	13.7	13.7	12.9
45°	11.4	11.4	12.2	11.4	11.4
47.5°	9.9	9.9	10.7	9.9	9.9
50°	9.1	9.1	9.1	9.1	9.1
52.5°	8.4	8.4	8.4	8.4	8.4
55°	7.6	7.6	7.6	7.6	7.6
57.5°	6.9	6.9	6.9	6.9	6.9
60°	6.1	6.1	6.1	6.1	6.1
62.5°	5.3	5.3	5.3	5.3	5.3
65°	4.6	4.6	4.6	4.6	4.6
67.5°	4.6	4.6	4.6	4.6	4.6
70°	3.8	3.8	3.8	3.8	3.8
72.5°	3.0	3.0	3.0	3.0	3.0
75°	2.3	2.3	2.3	2.3	3.0
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	0.8	0.8	0.8	0.8	0.8
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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(END OF REPORT)