

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: P742903

Luminaire Tested: LD4D15D010-EU4DR1515309030-4LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742903  
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-EU4DR1515309030-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1277.4 lumens  
Efficiency: N/A  
Efficacy: 80.8 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

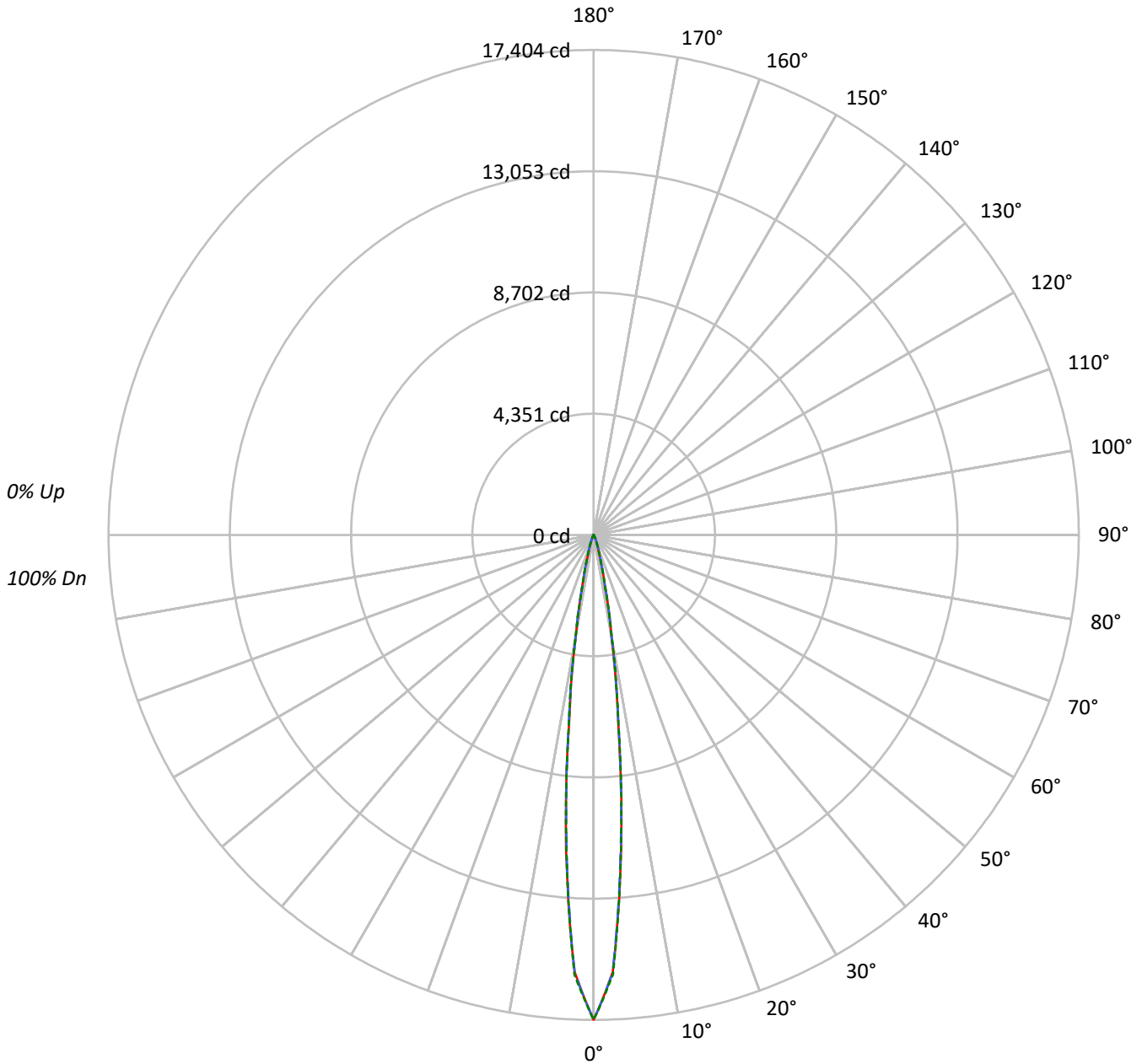


Downlight



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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	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°	1958275	1958275	1958275
5°	1150775	1135876	1144860
10°	343456	345854	351154
15°	85432	87091	84407
20°	25561	29595	26101
25°	9013	11483	9122
30°	3310	4358	3362
35°	1656	1874	1605
40°	1044	1150	1044
45°	777	826	777
50°	612	612	612
55°	515	515	515
60°	414	414	414
65°	314	314	314
70°	271	271	271
75°	166	166	219
80°	118	118	118
85°	58	58	58

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 826 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	828.5	64.9
10°-20°	340.8	26.7
20°-30°	67.7	5.3
30°-40°	16.9	1.3
40°-50°	8.9	0.7
50°-60°	6.6	0.5
60°-70°	4.7	0.4
70°-80°	2.6	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°	1236.9	96.8
0°-40°	1253.8	98.2
0°-60°	1269.3	99.4
0°-90°	1277.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1277.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17404	17404	17404	17404	17404	
5°	11323	11207	11177	11254	11265	827
15°	984	1002	1003	985	972	337
25°	116	131	147	130	117	61
35°	23	24	26	24	22	15
45°	11	11	12	11	11	9
55°	7	7	7	7	7	7
65°	4	4	4	4	4	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°	17403.8	17403.8	17403.8	17403.8	17403.8
2.5°	15698.9	15712.2	15717.3	15732.8	15790.3
5°	11323.3	11206.9	11176.7	11254.0	11265.1
7.5°	6707.5	6731.0	6817.2	6836.4	6767.1
10°	3680.9	3711.1	3706.6	3733.2	3763.4
12.5°	1882.4	1858.8	1851.5	1881.7	1839.7
15°	983.6	1002.0	1002.7	985.0	971.8
17.5°	529.0	550.4	585.7	557.0	512.8
20°	312.4	331.5	361.7	338.2	319.0
22.5°	193.0	208.5	229.9	211.5	196.0
25°	115.7	131.1	147.4	130.4	117.1
27.5°	68.5	81.8	92.1	81.0	67.8
30°	44.2	51.6	58.2	50.8	44.9
32.5°	30.9	33.9	36.8	33.9	30.9
35°	22.8	24.3	25.8	24.3	22.1
37.5°	17.7	19.2	19.9	18.4	16.9
40°	14.7	15.5	16.2	15.5	14.7
42.5°	12.5	13.3	13.3	13.3	12.5
45°	11.1	11.1	11.8	11.1	11.1
47.5°	9.6	9.6	10.3	9.6	9.6
50°	8.8	8.8	8.8	8.8	8.8
52.5°	8.1	8.1	8.1	8.1	8.1
55°	7.4	7.4	7.4	7.4	7.4
57.5°	6.6	6.6	6.6	6.6	6.6
60°	5.9	5.9	5.9	5.9	5.9
62.5°	5.2	5.2	5.2	5.2	5.2
65°	4.4	4.4	4.4	4.4	4.4
67.5°	4.4	4.4	4.4	4.4	4.4
70°	3.7	3.7	3.7	3.7	3.7
72.5°	2.9	2.9	2.9	2.9	2.9
75°	2.2	2.2	2.2	2.2	2.9
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	0.7	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

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)