

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: P742901

Luminaire Tested: LD4D15D010-EU4DR1515309030-4LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742901  
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-EU4DR1515309030-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1241.8 lumens  
Efficiency: N/A  
Efficacy: 78.6 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

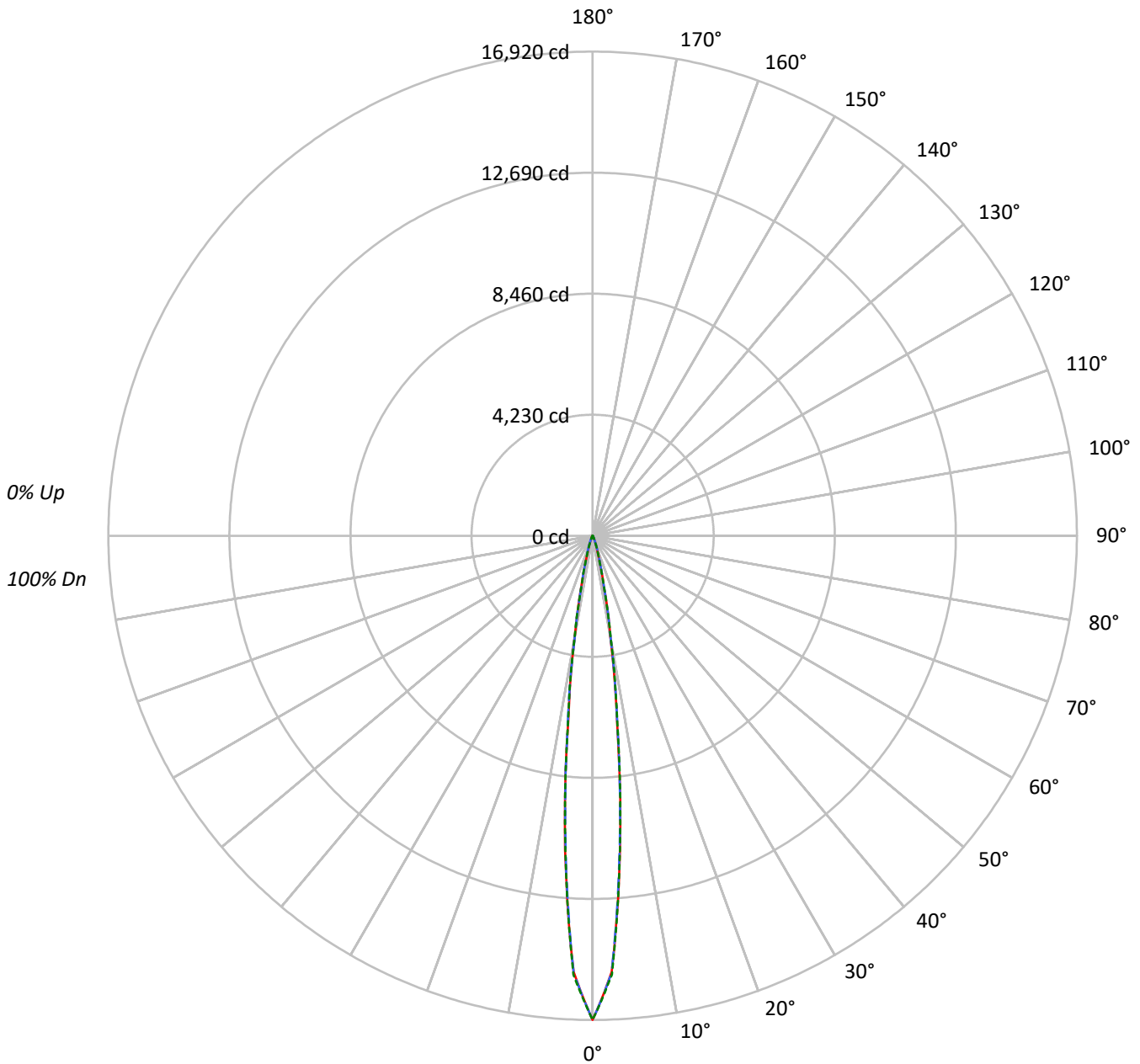


Downlight



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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	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°	1903815	1903815	1903815
5°	1118772	1104290	1113019
10°	333901	336243	341384
15°	83053	84668	82062
20°	24850	28777	25373
25°	8764	11163	8873
30°	3220	4238	3272
35°	1612	1823	1561
40°	1016	1122	1016
45°	749	805	749
50°	598	598	598
55°	501	501	501
60°	400	400	400
65°	307	307	307
70°	263	263	263
75°	159	159	219
80°	110	110	110
85°	58	58	58

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 805 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	805.4	64.9
10°-20°	331.3	26.7
20°-30°	65.8	5.3
30°-40°	16.4	1.3
40°-50°	8.6	0.7
50°-60°	6.4	0.5
60°-70°	4.5	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°	1202.5	96.8
0°-40°	1218.9	98.2
0°-60°	1234.0	99.4
0°-90°	1241.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1241.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16920	16920	16920	16920	16920	
5°	11008	10895	10866	10941	10952	804
15°	956	974	975	958	945	328
25°	112	128	143	127	114	59
35°	22	24	25	24	22	15
45°	11	11	12	11	11	8
55°	7	7	7	7	7	6
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°	16919.8	16919.8	16919.8	16919.8	16919.8
2.5°	15262.3	15275.2	15280.2	15295.3	15351.2
5°	11008.4	10895.2	10865.9	10941.1	10951.8
7.5°	6520.9	6543.9	6627.7	6646.3	6579.0
10°	3578.5	3607.9	3603.6	3629.4	3658.7
12.5°	1830.1	1807.2	1800.0	1829.4	1788.5
15°	956.2	974.1	974.8	957.7	944.8
17.5°	514.3	535.1	569.4	541.5	498.5
20°	303.7	322.3	351.7	328.8	310.1
22.5°	187.7	202.7	223.5	205.6	190.5
25°	112.5	127.5	143.3	126.8	113.9
27.5°	66.6	79.5	89.5	78.8	65.9
30°	43.0	50.1	56.6	49.4	43.7
32.5°	30.1	32.9	35.8	32.9	30.1
35°	22.2	23.6	25.1	23.6	21.5
37.5°	17.2	18.6	19.3	17.9	16.5
40°	14.3	15.0	15.8	15.0	14.3
42.5°	12.2	12.9	12.9	12.9	12.2
45°	10.7	10.7	11.5	10.7	10.7
47.5°	9.3	9.3	10.0	9.3	9.3
50°	8.6	8.6	8.6	8.6	8.6
52.5°	7.9	7.9	7.9	7.9	7.9
55°	7.2	7.2	7.2	7.2	7.2
57.5°	6.4	6.4	6.4	6.4	6.4
60°	5.7	5.7	5.7	5.7	5.7
62.5°	5.0	5.0	5.0	5.0	5.0
65°	4.3	4.3	4.3	4.3	4.3
67.5°	4.3	4.3	4.3	4.3	4.3
70°	3.6	3.6	3.6	3.6	3.6
72.5°	2.9	2.9	2.9	2.9	2.9
75°	2.1	2.1	2.1	2.1	2.9
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4
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)