

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: P741914

Luminaire Tested: LD4D10D010-EU4DR150210IC9035-4LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741914  
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: LD4D10D010-EU4DR150210IC9035-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 967.8 lumens  
Efficiency: N/A  
Efficacy: 82.7 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): 11.7  
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



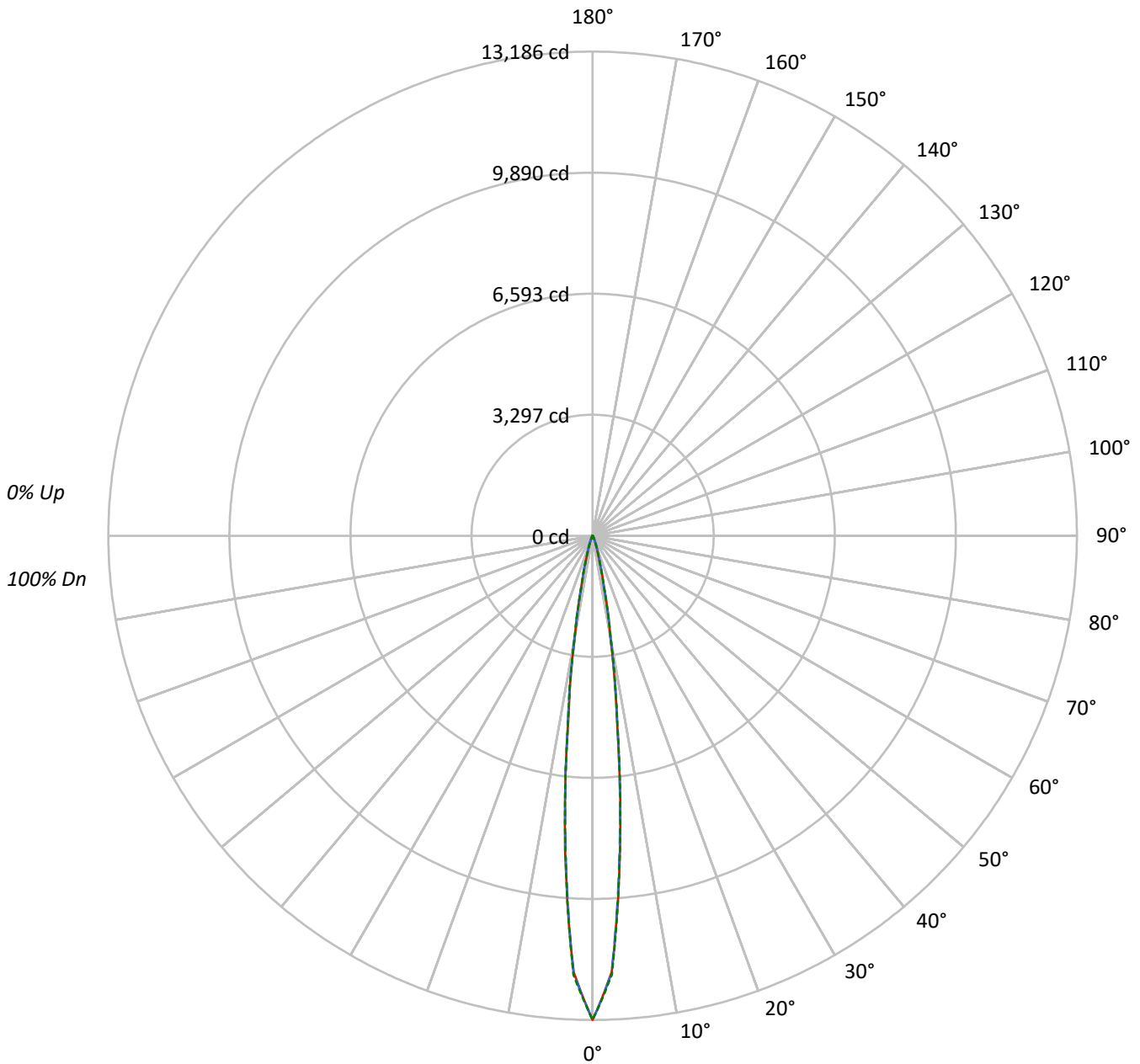
Downlight



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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°	1483722	1483722	1483722
5°	871905	860614	867423
10°	260226	262045	266057
15°	64726	65985	63953
20°	19367	22428	19777
25°	6824	8694	6918
30°	2509	3302	2553
35°	1256	1416	1213
40°	795	873	795
45°	588	623	588
50°	466	466	466
55°	390	390	390
60°	316	316	316
65°	236	236	236
70°	205	205	205
75°	128	128	166
80°	87	87	87
85°	50	50	50

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 623 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	627.7	64.9
10°-20°	258.2	26.7
20°-30°	51.3	5.3
30°-40°	12.8	1.3
40°-50°	6.7	0.7
50°-60°	5.0	0.5
60°-70°	3.5	0.4
70°-80°	2.0	0.2
80°-90°	0.6	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°	937.2	96.8
0°-40°	950.0	98.2
0°-60°	961.7	99.4
0°-90°	967.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	967.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13186	13186	13186	13186	13186	
5°	8579	8491	8468	8527	8535	627
15°	745	759	760	746	736	256
25°	88	99	112	99	89	46
35°	17	18	20	18	17	12
45°	8	8	9	8	8	7
55°	6	6	6	6	6	5
65°	3	3	3	3	3	4
75°	2	2	2	2	2	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°	13186.3	13186.3	13186.3	13186.3	13186.3
2.5°	11894.6	11904.7	11908.6	11920.3	11963.8
5°	8579.3	8491.1	8468.2	8526.9	8535.2
7.5°	5082.1	5099.9	5165.2	5179.7	5127.3
10°	2788.9	2811.8	2808.4	2828.5	2851.4
12.5°	1426.3	1408.4	1402.8	1425.7	1393.9
15°	745.2	759.2	759.7	746.3	736.3
17.5°	400.8	417.0	443.8	422.0	388.5
20°	236.7	251.2	274.1	256.2	241.7
22.5°	146.3	158.0	174.2	160.2	148.5
25°	87.6	99.4	111.6	98.8	88.8
27.5°	51.9	62.0	69.8	61.4	51.4
30°	33.5	39.1	44.1	38.5	34.1
32.5°	23.4	25.7	27.9	25.7	23.4
35°	17.3	18.4	19.5	18.4	16.7
37.5°	13.4	14.5	15.1	14.0	12.8
40°	11.2	11.7	12.3	11.7	11.2
42.5°	9.5	10.0	10.0	10.0	9.5
45°	8.4	8.4	8.9	8.4	8.4
47.5°	7.3	7.3	7.8	7.3	7.3
50°	6.7	6.7	6.7	6.7	6.7
52.5°	6.1	6.1	6.1	6.1	6.1
55°	5.6	5.6	5.6	5.6	5.6
57.5°	5.0	5.0	5.0	5.0	5.0
60°	4.5	4.5	4.5	4.5	4.5
62.5°	3.9	3.9	3.9	3.9	3.9
65°	3.3	3.3	3.3	3.3	3.3
67.5°	3.3	3.3	3.3	3.3	3.3
70°	2.8	2.8	2.8	2.8	2.8
72.5°	2.2	2.2	2.2	2.2	2.2
75°	1.7	1.7	1.7	1.7	2.2
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.6	0.6	0.6	0.6	0.6
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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