

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: P738870

Luminaire Tested: LD4D02D010-EU4DR150210IC9035-4LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P738870  
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: LD4D02D010-EU4DR150210IC9035-4LBS1MW  
Description: 4 INCH ROUND SHALLOW 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: 371.6 lumens  
Efficiency: N/A  
Efficacy: 72.9 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): 5.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

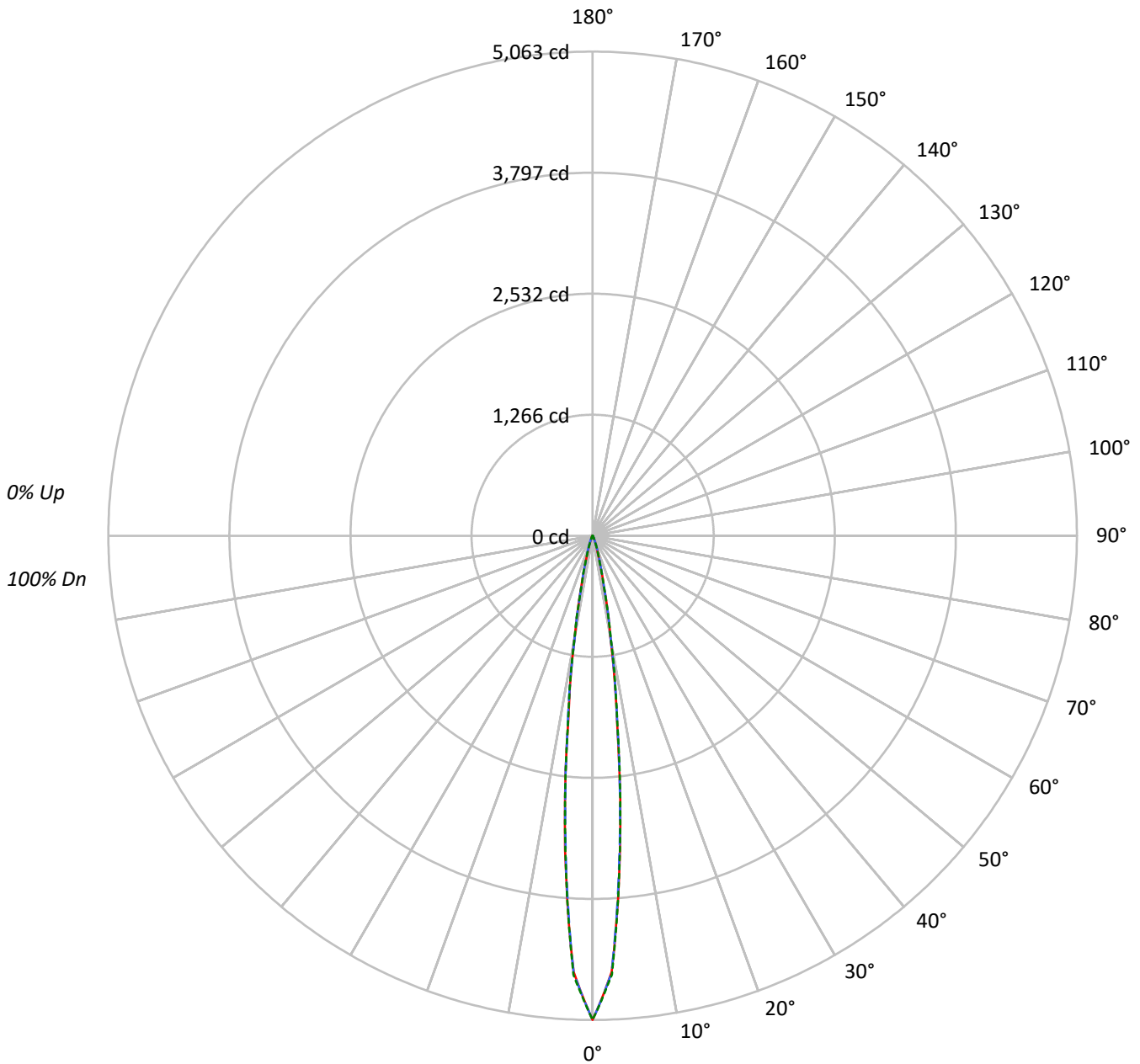


Downlight



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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	99	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	99	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°	569643	569643	569643
5°	334755	330416	333028
10°	99904	100604	102144
15°	24850	25336	24554
20°	7438	8608	7593
25°	2617	3342	2656
30°	966	1265	981
35°	479	545	465
40°	305	334	305
45°	224	238	224
50°	181	181	181
55°	146	146	146
60°	119	119	119
65°	93	93	93
70°	80	80	80
75°	45	45	68
80°	32	32	32
85°	17	17	17

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 238 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.0	64.9
10°-20°	99.1	26.7
20°-30°	19.7	5.3
30°-40°	4.9	1.3
40°-50°	2.6	0.7
50°-60°	1.9	0.5
60°-70°	1.4	0.4
70°-80°	0.8	0.2
80°-90°	0.2	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°	359.8	96.8
0°-40°	364.7	98.2
0°-60°	369.2	99.4
0°-90°	371.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	371.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5063	5063	5063	5063	5063	
5°	3294	3260	3251	3274	3277	241
15°	286	292	292	286	283	98
25°	34	38	43	38	34	18
35°	7	7	8	7	6	4
45°	3	3	3	3	3	3
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5062.6	5062.6	5062.6	5062.6	5062.6
2.5°	4566.7	4570.6	4572.1	4576.6	4593.3
5°	3293.9	3260.0	3251.2	3273.7	3276.9
7.5°	1951.2	1958.0	1983.1	1988.7	1968.5
10°	1070.7	1079.5	1078.2	1086.0	1094.7
12.5°	547.6	540.7	538.6	547.4	535.2
15°	286.1	291.5	291.7	286.5	282.7
17.5°	153.9	160.1	170.4	162.0	149.2
20°	90.9	96.4	105.2	98.4	92.8
22.5°	56.2	60.7	66.9	61.5	57.0
25°	33.6	38.1	42.9	37.9	34.1
27.5°	19.9	23.8	26.8	23.6	19.7
30°	12.9	15.0	16.9	14.8	13.1
32.5°	9.0	9.9	10.7	9.9	9.0
35°	6.6	7.1	7.5	7.1	6.4
37.5°	5.1	5.6	5.8	5.4	4.9
40°	4.3	4.5	4.7	4.5	4.3
42.5°	3.6	3.9	3.9	3.9	3.6
45°	3.2	3.2	3.4	3.2	3.2
47.5°	2.8	2.8	3.0	2.8	2.8
50°	2.6	2.6	2.6	2.6	2.6
52.5°	2.4	2.4	2.4	2.4	2.4
55°	2.1	2.1	2.1	2.1	2.1
57.5°	1.9	1.9	1.9	1.9	1.9
60°	1.7	1.7	1.7	1.7	1.7
62.5°	1.5	1.5	1.5	1.5	1.5
65°	1.3	1.3	1.3	1.3	1.3
67.5°	1.3	1.3	1.3	1.3	1.3
70°	1.1	1.1	1.1	1.1	1.1
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.6	0.6	0.6	0.6	0.9
77.5°	0.6	0.6	0.6	0.6	0.6
80°	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2
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)