

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: P742146

Luminaire Tested: LD4D10D010-EU4DR300210IC9035-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D10D010-EU4DR300210IC9035-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1030.9 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
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



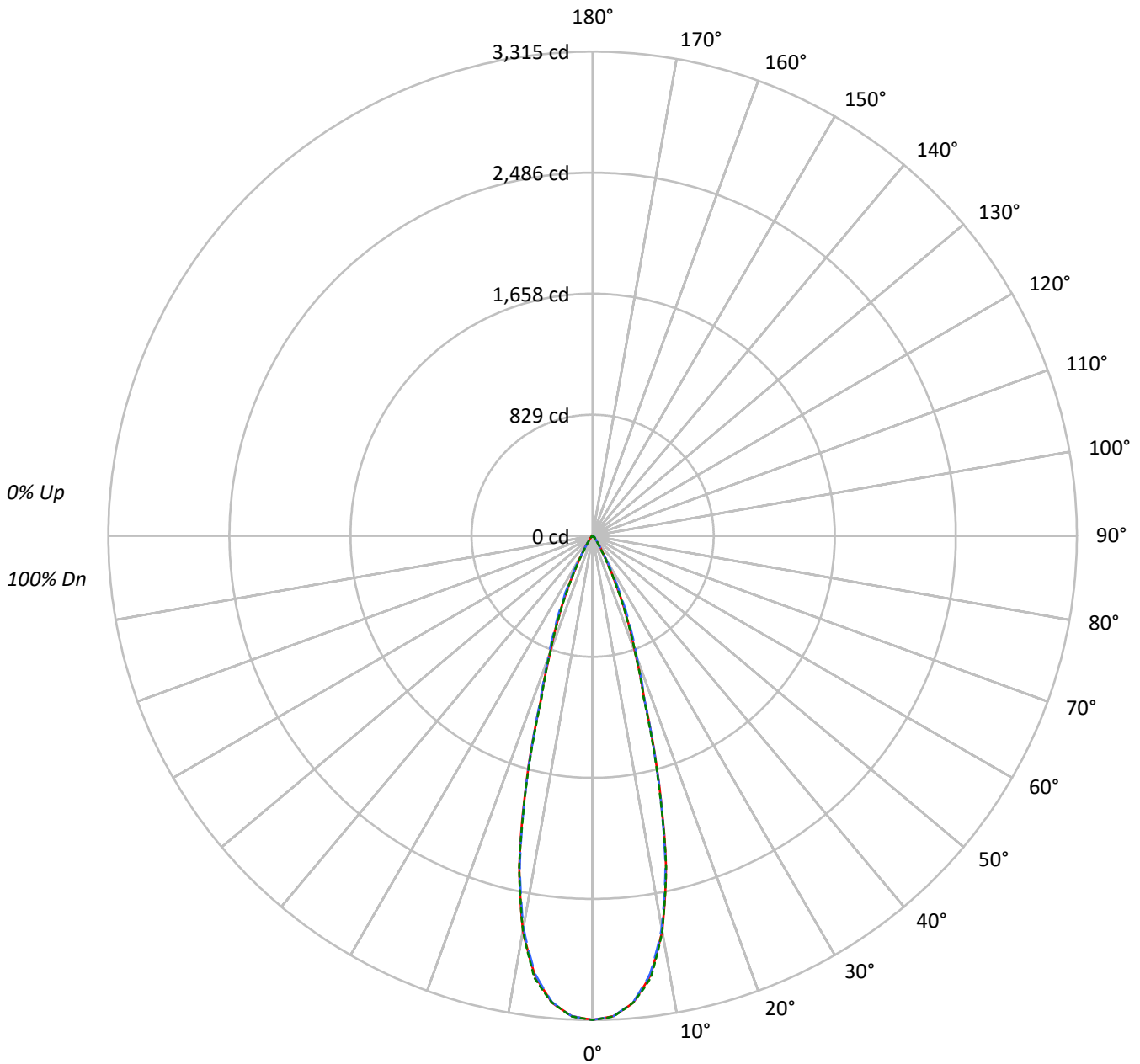
Downlight



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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	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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	253711	253711	253711
5°	246435	246143	246443
10°	213446	211938	213400
15°	139263	138518	137820
20°	69246	71852	69156
25°	34880	39340	34171
30°	13965	15220	12171
35°	6476	6205	5195
40°	2798	3108	2638
45°	1970	2446	1992
50°	679	1786	714
55°	387	747	414
60°	276	321	276
65°	181	181	181
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 2446 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.5	28.3
10°-20°	469.4	45.5
20°-30°	202.8	19.7
30°-40°	46.2	4.5
40°-50°	15.9	1.5
50°-60°	3.9	0.4
60°-70°	1.0	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	963.7	93.5
0°-40°	1010.0	98.0
0°-60°	1029.7	99.9
0°-90°	1030.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1030.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3315	3315	3315	3315	3315	
5°	3207	3204	3204	3210	3207	292
15°	1757	1736	1748	1742	1739	471
25°	413	429	466	418	405	198
35°	69	71	66	66	56	47
45°	18	23	23	23	18	13
55°	3	3	6	3	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3314.6	3314.6	3314.6	3314.6	3314.6
2.5°	3292.7	3290.4	3291.7	3293.3	3294.0
5°	3207.3	3204.2	3203.5	3210.2	3207.4
7.5°	3034.9	3030.5	3023.9	3039.0	3053.1
10°	2746.2	2741.3	2726.8	2734.0	2745.6
12.5°	2320.0	2304.2	2303.9	2326.7	2323.6
15°	1757.4	1736.3	1748.0	1742.3	1739.2
17.5°	1181.8	1173.7	1189.3	1184.6	1164.2
20°	850.1	852.3	882.1	867.0	849.0
22.5°	620.3	628.0	663.3	624.7	610.6
25°	413.0	428.6	465.8	417.7	404.6
27.5°	254.0	261.2	298.8	250.8	243.6
30°	158.0	154.4	172.2	147.8	137.7
32.5°	103.6	99.1	104.8	94.1	85.9
35°	69.3	70.8	66.4	65.9	55.6
37.5°	43.3	49.8	43.9	46.9	35.8
40°	28.0	36.2	31.1	34.3	26.4
42.5°	22.9	27.8	25.6	27.2	23.4
45°	18.2	22.6	22.6	22.6	18.4
47.5°	10.1	15.1	19.4	15.5	10.7
50°	5.7	7.6	15.0	8.0	6.0
52.5°	3.9	4.4	10.3	4.6	4.1
55°	2.9	3.1	5.6	3.3	3.1
57.5°	2.3	2.5	2.9	2.5	2.3
60°	1.8	1.8	2.1	1.9	1.8
62.5°	1.3	1.3	1.5	1.3	1.3
65°	1.0	1.0	1.0	1.0	1.0
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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