

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: P741143

Luminaire Tested: LD4D08D010-EU4DR300210IC9040-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741143  
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: LD4D08D010-EU4DR300210IC9040-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 833.6 lumens  
Efficiency: N/A  
Efficacy: 93.7 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): 8.9  
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

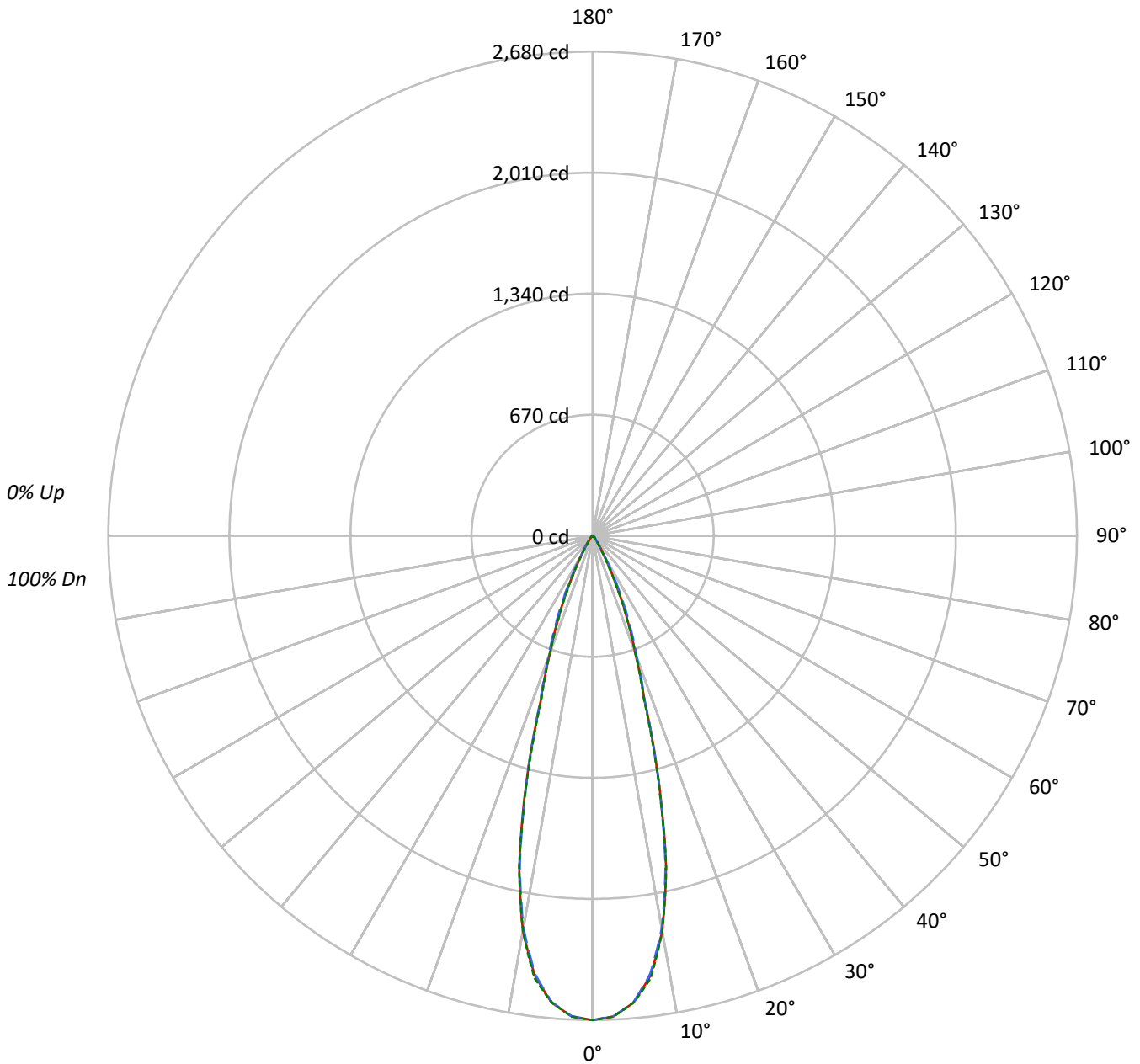


Downlight



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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	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	87	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°	205175	205175	205175
5°	199281	199051	199289
10°	172610	171390	172571
15°	112621	112011	111448
20°	56001	58102	55928
25°	28208	31815	27634
30°	11296	12303	9837
35°	5233	5018	4205
40°	2258	2518	2128
45°	1591	1981	1613
50°	548	1441	583
55°	307	601	334
60°	214	260	214
65°	145	145	145
70°	90	67	90
75°	0	30	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 1981 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.7	28.3
10°-20°	379.6	45.5
20°-30°	164.0	19.7
30°-40°	37.4	4.5
40°-50°	12.8	1.5
50°-60°	3.1	0.4
60°-70°	0.8	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°	779.4	93.5
0°-40°	816.7	98.0
0°-60°	832.7	99.9
0°-90°	833.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	833.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2680	2680	2680	2680	2680	
5°	2594	2591	2591	2596	2594	236
15°	1421	1404	1414	1409	1406	381
25°	334	347	377	338	327	160
35°	56	57	54	53	45	38
45°	15	18	18	18	15	10
55°	2	2	4	3	2	2
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°	2680.5	2680.5	2680.5	2680.5	2680.5
2.5°	2662.7	2660.9	2661.9	2663.2	2663.8
5°	2593.6	2591.1	2590.6	2596.0	2593.7
7.5°	2454.3	2450.7	2445.3	2457.6	2469.0
10°	2220.8	2216.9	2205.1	2211.0	2220.3
12.5°	1876.1	1863.4	1863.1	1881.5	1879.0
15°	1421.2	1404.1	1413.5	1408.9	1406.4
17.5°	955.7	949.2	961.8	957.9	941.5
20°	687.5	689.2	713.3	701.2	686.6
22.5°	501.7	507.9	536.4	505.2	493.8
25°	334.0	346.6	376.7	337.8	327.2
27.5°	205.5	211.2	241.6	202.8	197.0
30°	127.8	124.9	139.2	119.5	111.3
32.5°	83.8	80.2	84.7	76.1	69.5
35°	56.0	57.2	53.7	53.3	45.0
37.5°	35.0	40.3	35.5	37.9	28.9
40°	22.6	29.2	25.2	27.8	21.3
42.5°	18.6	22.5	20.7	22.0	19.0
45°	14.7	18.3	18.3	18.3	14.9
47.5°	8.1	12.3	15.6	12.5	8.7
50°	4.6	6.2	12.1	6.5	4.9
52.5°	3.2	3.6	8.3	3.7	3.3
55°	2.3	2.5	4.5	2.6	2.5
57.5°	1.8	1.9	2.3	1.9	1.8
60°	1.4	1.4	1.7	1.6	1.4
62.5°	1.0	1.0	1.2	1.0	1.0
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.4	0.5	0.5	0.5	0.5
70°	0.4	0.3	0.3	0.3	0.4
72.5°	0.3	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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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(END OF REPORT)