

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: P753793

Luminaire Tested: LD4D80BD010-EU4DR3070959030-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753793  
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: LD4D80BD010-EU4DR3070959030-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6787.7 lumens  
Efficiency: N/A  
Efficacy: 86.0 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

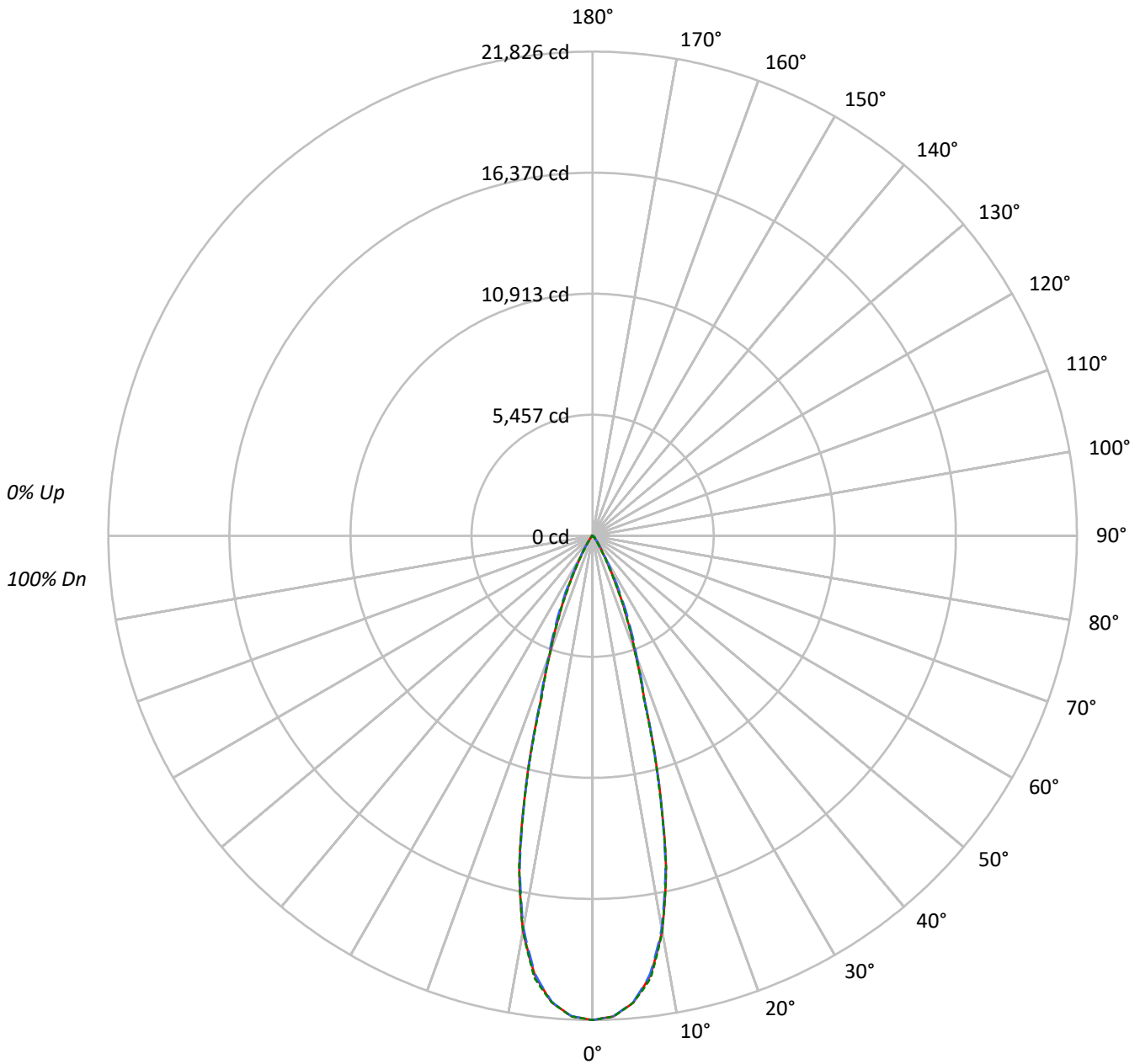
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°	45°	90°
0°	1670636	1670636	1670636
5°	1622672	1620782	1622756
10°	1405479	1395569	1405145
15°	917006	912077	907497
20°	455981	473095	455370
25°	229696	259019	224983
30°	91964	100202	80130
35°	42656	40853	34247
40°	18415	20454	17346
45°	12990	16118	13109
50°	4466	11741	4716
55°	2576	4858	2722
60°	1806	2128	1806
65°	1159	1159	1159
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 16118 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1919.3	28.3
10°-20°	3091.0	45.5
20°-30°	1335.7	19.7
30°-40°	304.4	4.5
40°-50°	104.5	1.5
50°-60°	25.5	0.4
60°-70°	6.6	0.1
70°-80°	0.7	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°	6345.9	93.5
0°-40°	6650.4	98.0
0°-60°	6780.4	99.9
0°-90°	6787.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6787.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21826	21826	21826	21826	21826	
5°	21119	21098	21094	21138	21120	1921
15°	11572	11433	11510	11472	11452	3099
25°	2720	2822	3067	2751	2664	1302
35°	456	466	437	434	366	310
45°	120	149	149	149	121	85
55°	19	20	36	21	20	19
65°	6	6	6	6	6	6
75°	0	0	1	0	0	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°	21826.0	21826.0	21826.0	21826.0	21826.0
2.5°	21681.3	21666.3	21674.9	21685.6	21689.9
5°	21118.7	21098.4	21094.1	21138.0	21119.8
7.5°	19983.9	19955.0	19911.0	20010.7	20103.9
10°	18082.9	18050.8	17955.4	18002.6	18078.6
12.5°	15276.5	15172.5	15170.4	15320.4	15300.0
15°	11572.0	11432.7	11509.8	11472.3	11452.0
17.5°	7781.8	7728.2	7831.1	7800.0	7666.1
20°	5597.9	5611.9	5808.0	5709.4	5590.4
22.5°	4084.9	4135.2	4367.8	4113.8	4020.6
25°	2719.7	2822.5	3066.9	2750.7	2663.9
27.5°	1672.7	1719.9	1967.4	1651.3	1604.2
30°	1040.5	1016.9	1133.7	973.0	906.6
32.5°	682.6	652.6	690.1	619.4	565.8
35°	456.5	466.1	437.2	434.0	366.5
37.5°	285.0	327.9	289.3	308.6	235.7
40°	184.3	237.9	204.7	226.1	173.6
42.5°	151.1	183.2	168.2	179.0	154.3
45°	120.0	148.9	148.9	148.9	121.1
47.5°	66.4	99.7	127.5	101.8	70.7
50°	37.5	50.4	98.6	52.5	39.6
52.5°	25.7	28.9	67.5	30.0	26.8
55°	19.3	20.4	36.4	21.4	20.4
57.5°	15.0	16.1	19.3	16.1	15.0
60°	11.8	11.8	13.9	12.9	11.8
62.5°	8.6	8.6	9.6	8.6	8.6
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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