

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P566486

Luminaire Tested: **4SNX-48SL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566486  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-48SL-LN-UNV-L830-CD  
Description: 4FT 4800 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

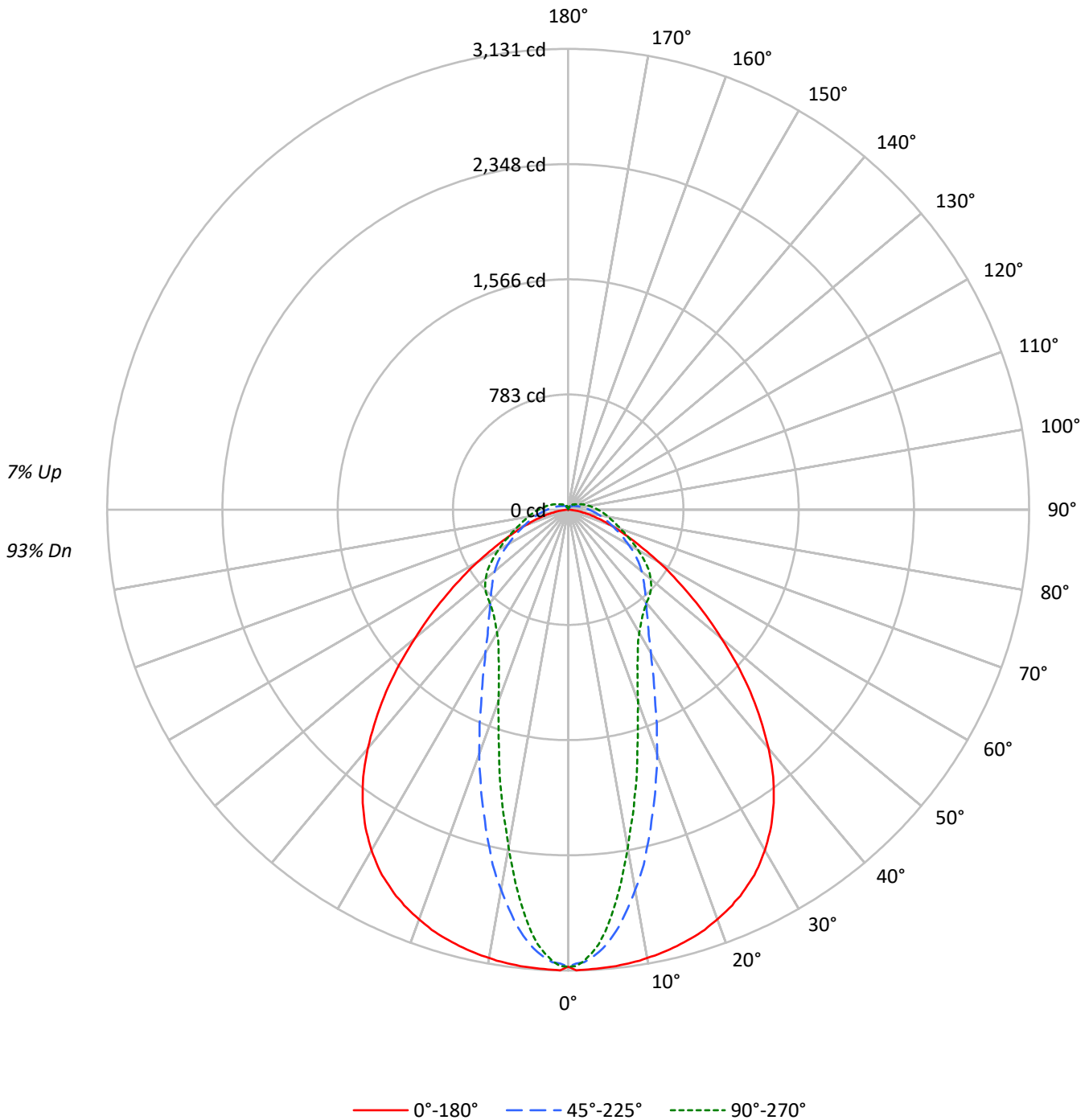
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4949.0 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 32.1  
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: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36				
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33				
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30				
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28				

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

	0°	45°	90°
0°	33419	33419	33419
5°	33591	30715	29393
10°	33546	26335	22805
15°	33529	21482	17092
20°	33422	17113	12791
25°	33118	13410	10152
30°	32424	10853	8660
35°	31063	9185	7877
40°	28735	8109	7455
45°	25547	7418	7225
50°	21641	6827	6825
55°	17780	6186	6233
60°	14218	5442	5468
65°	11038	4778	4758
70°	8570	4225	4209
75°	6630	3798	3834
80°	4683	3475	3564
85°	2602	3239	3418



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.9	5.6
10°-20°	644.5	13.0
20°-30°	765.0	15.5
30°-40°	769.7	15.6
40°-50°	715.4	14.5
50°-60°	589.1	11.9
60°-70°	415.1	8.4
70°-80°	271.2	5.5
80°-90°	173.1	3.5
90°-100°	113.6	2.3
100°-110°	77.1	1.6
110°-120°	52.8	1.1
120°-130°	36.5	0.7
130°-140°	24.6	0.5
140°-150°	15.2	0.3
150°-160°	7.9	0.2
160°-170°	2.9	0.1
170°-180°	0.5	0.0
0°-30°	1684.4	34.0
0°-40°	2454.0	49.6
0°-60°	3758.6	75.9
0°-90°	4618.0	93.3
90°-120°	243.5	4.9
90°-150°	319.8	6.5
90°-180°	331.0	6.7
0°-180°	4949.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3105	3105	3105	3105	3105	
5°	3120	3079	2967	2910	2879	297
15°	3042	2718	2186	1912	1808	859
25°	2843	2101	1393	1170	1120	1308
35°	2433	1421	944	884	879	1513
45°	1748	936	731	770	791	1342
55°	1004	615	565	628	648	907
65°	472	371	389	438	454	479
75°	184	192	262	309	322	199
85°	31	88	176	228	239	39
90°	0	60	143	194	202	2
95°	0	44	119	163	171	0
105°	0	31	80	114	124	0
115°	3	26	57	83	88	2
125°	3	21	47	60	65	2
135°	3	18	36	47	49	2
145°	3	13	26	36	39	2
155°	3	10	18	26	28	1
165°	3	5	10	13	16	1
175°	5	5	5	5	3	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3104.7	3104.7	3104.7	3104.7	3104.7
1°	3130.6	3117.6	3083.9	3107.2	3102.1
2°	3128.0	3115.0	3076.1	3086.5	3068.3
3°	3125.4	3107.2	3047.6	3045.0	3019.1
4°	3122.8	3094.3	3011.3	2980.2	2959.4
5°	3120.2	3078.7	2967.2	2910.1	2879.0
6°	3117.6	3060.6	2910.1	2824.5	2780.4
7°	3112.4	3032.0	2850.5	2733.8	2676.7
8°	3107.2	3006.1	2775.3	2635.2	2565.2
9°	3102.1	2972.4	2700.0	2528.9	2445.9
10°	3091.7	2938.7	2622.2	2419.9	2331.7
11°	3086.5	2899.8	2547.0	2316.2	2212.4
12°	3076.1	2858.3	2466.6	2207.2	2116.5
13°	3065.8	2814.2	2368.0	2113.9	2004.9
14°	3055.4	2767.5	2282.5	2010.1	1909.0
15°	3042.4	2718.2	2186.5	1911.6	1807.8
16°	3029.4	2661.1	2100.9	1810.4	1701.5
17°	3016.5	2606.7	2020.5	1717.0	1618.5
18°	3000.9	2552.2	1927.1	1626.2	1530.3
19°	2980.2	2489.9	1851.9	1543.3	1455.1
20°	2962.0	2432.9	1766.3	1465.4	1387.6
21°	2941.3	2362.9	1680.7	1392.8	1315.0
22.5°	2910.1	2264.3	1571.8	1302.0	1229.4
23°	2894.6	2235.8	1527.7	1268.3	1206.1
24°	2873.8	2160.6	1455.1	1216.4	1154.2
25°	2842.7	2100.9	1392.8	1169.8	1120.5
26°	2814.2	2028.3	1330.6	1128.3	1079.0
27°	2785.6	1958.2	1276.1	1084.2	1042.7
28°	2749.3	1885.6	1216.4	1047.9	1011.5
29°	2710.4	1818.2	1167.2	1016.7	988.2
30°	2671.5	1743.0	1125.7	988.2	964.9
32.5°	2562.6	1577.0	1019.3	933.7	918.2
35°	2432.9	1421.3	944.1	884.5	879.3
37.5°	2287.6	1278.7	876.7	845.5	850.7
40°	2116.5	1149.0	819.6	817.0	827.4
42.5°	1934.9	1037.5	775.5	793.7	809.2
45°	1748.2	936.3	731.4	770.3	791.1
47.5°	1553.6	848.1	692.5	741.8	765.1
50°	1356.5	762.5	651.0	708.1	731.4
52.5°	1180.1	687.3	609.5	669.2	695.1
55°	1003.8	614.7	565.4	627.7	648.4
57.5°	850.7	547.3	518.7	581.0	596.6
60°	708.1	482.4	472.1	529.1	547.3
62.5°	578.4	425.4	428.0	482.4	500.6
65°	472.1	370.9	389.1	438.3	453.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	383.9	319.0	350.1	402.0	415.0
70°	303.5	272.3	319.0	365.7	378.7
72.5°	241.2	230.8	287.9	337.2	347.6
75°	184.2	191.9	262.0	308.7	321.6
77.5°	132.3	160.8	236.0	285.3	295.7
80°	93.4	132.3	215.3	264.6	274.9
82.5°	59.7	108.9	194.5	246.4	256.8
85°	31.1	88.2	176.4	228.2	238.6
87.5°	13.0	72.6	158.2	210.1	220.5
90°	0.0	59.7	142.7	194.5	202.3
92.5°	0.0	51.9	129.7	179.0	186.7
95°	0.0	44.1	119.3	163.4	171.2
97.5°	0.0	41.5	106.3	150.4	158.2
100°	0.0	36.3	96.0	137.5	147.8
102.5°	0.0	33.7	88.2	124.5	134.9
105°	0.0	31.1	80.4	114.1	124.5
107.5°	0.0	28.5	75.2	106.3	114.1
110°	0.0	28.5	67.4	98.6	106.3
112.5°	2.6	25.9	62.2	88.2	96.0
115°	2.6	25.9	57.1	83.0	88.2
117.5°	2.6	25.9	54.5	75.2	80.4
120°	2.6	23.3	51.9	70.0	75.2
122.5°	2.6	23.3	49.3	64.8	67.4
125°	2.6	20.7	46.7	59.7	64.8
127.5°	2.6	20.7	44.1	57.1	59.7
130°	2.6	20.7	41.5	51.9	57.1
132.5°	2.6	18.2	38.9	49.3	51.9
135°	2.6	18.2	36.3	46.7	49.3
137.5°	2.6	15.6	33.7	44.1	46.7
140°	2.6	15.6	31.1	41.5	44.1
142.5°	2.6	13.0	28.5	38.9	41.5
145°	2.6	13.0	25.9	36.3	38.9
147.5°	2.6	13.0	23.3	33.7	36.3
150°	2.6	10.4	20.7	31.1	33.7
152.5°	2.6	10.4	18.2	28.5	31.1
155°	2.6	10.4	18.2	25.9	28.5
157.5°	2.6	7.8	15.6	20.7	25.9
160°	2.6	7.8	13.0	18.2	23.3
162.5°	2.6	7.8	13.0	15.6	18.2
165°	2.6	5.2	10.4	13.0	15.6
167.5°	2.6	5.2	7.8	10.4	13.0
170°	2.6	5.2	7.8	7.8	10.4
172.5°	2.6	5.2	5.2	5.2	5.2
175°	5.2	5.2	5.2	5.2	2.6
177.5°	5.2	5.2	5.2	2.6	2.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)