

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: P566438

Luminaire Tested: **4SNX-45SL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566438
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-45SL-LN-UNV-L830-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

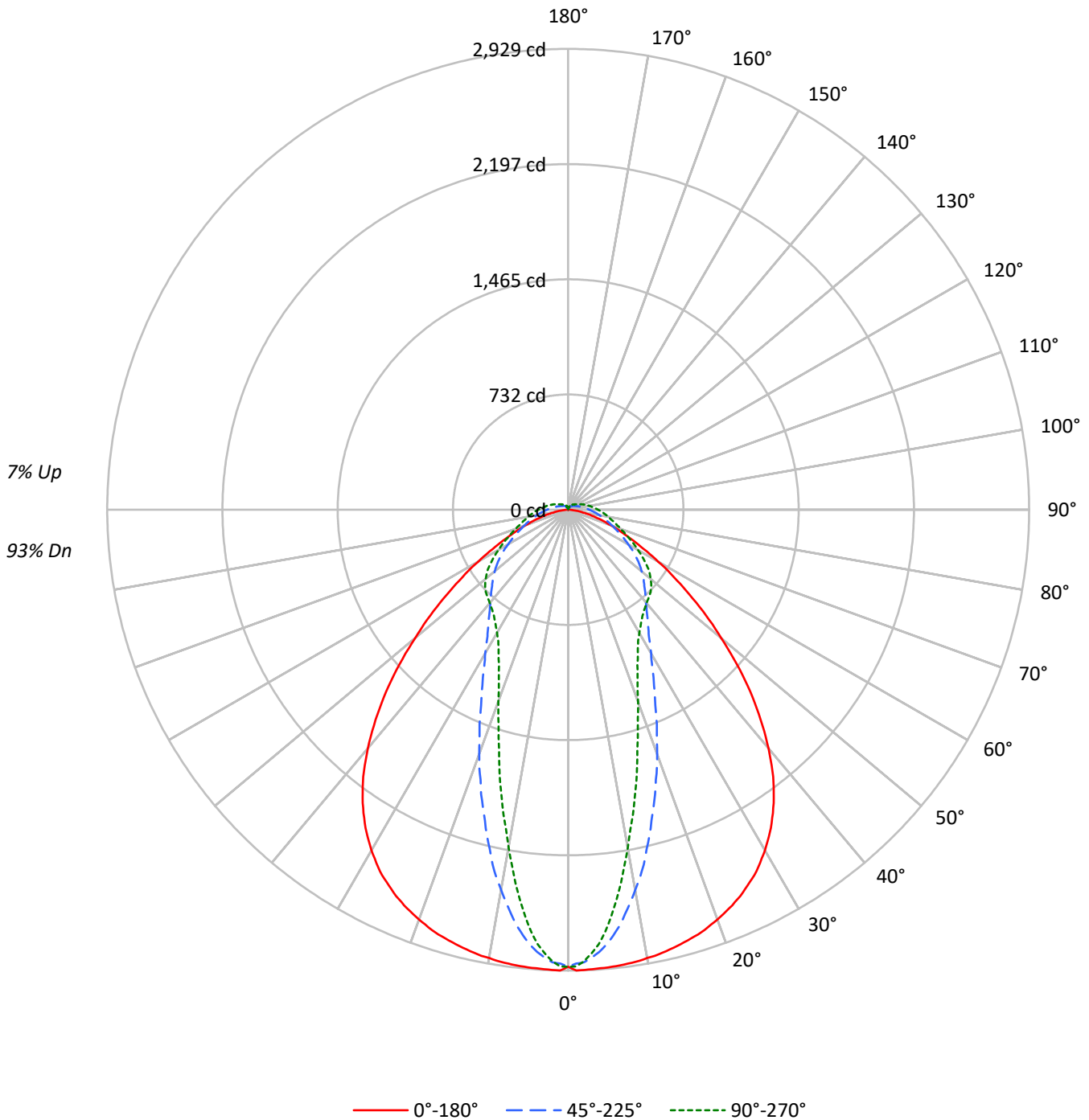
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4631.0 lumens
Efficiency: N/A
Efficacy: 155.4 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): 29.8
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: 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°	31271	31271	31271
5°	31433	28741	27505
10°	31390	24642	21340
15°	31374	20102	15994
20°	31275	16013	11970
25°	30990	12548	9499
30°	30340	10155	8103
35°	29067	8594	7371
40°	26888	7587	6976
45°	23905	6941	6761
50°	20250	6388	6387
55°	16637	5789	5833
60°	13304	5092	5116
65°	10327	4471	4452
70°	8020	3954	3938
75°	6201	3553	3589
80°	4382	3251	3336
85°	2434	3030	3199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.3	5.6
10°-20°	603.0	13.0
20°-30°	715.8	15.5
30°-40°	720.2	15.6
40°-50°	669.4	14.5
50°-60°	551.3	11.9
60°-70°	388.4	8.4
70°-80°	253.8	5.5
80°-90°	162.0	3.5
90°-100°	106.3	2.3
100°-110°	72.1	1.6
110°-120°	49.4	1.1
120°-130°	34.2	0.7
130°-140°	23.0	0.5
140°-150°	14.2	0.3
150°-160°	7.4	0.2
160°-170°	2.7	0.1
170°-180°	0.5	0.0
0°-30°	1576.1	34.0
0°-40°	2296.3	49.6
0°-60°	3517.0	75.9
0°-90°	4321.3	93.3
90°-120°	227.8	4.9
90°-150°	299.2	6.5
90°-180°	310.0	6.7
0°-180°	4631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2905	2905	2905	2905	2905	
5°	2920	2881	2776	2723	2694	278
15°	2847	2544	2046	1789	1692	804
25°	2660	1966	1303	1095	1048	1224
35°	2277	1330	883	828	823	1416
45°	1636	876	684	721	740	1256
55°	939	575	529	587	607	848
65°	442	347	364	410	425	448
75°	172	180	245	289	301	186
85°	29	82	165	214	223	37
90°	0	56	134	182	189	2
95°	0	41	112	153	160	0
105°	0	29	75	107	116	0
115°	2	24	53	78	82	2
125°	2	19	44	56	61	2
135°	2	17	34	44	46	2
145°	2	12	24	34	36	2
155°	2	10	17	24	27	1
165°	2	5	10	12	15	1
175°	5	5	5	5	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2905.2	2905.2	2905.2	2905.2	2905.2
1°	2929.4	2917.3	2885.7	2907.6	2902.7
2°	2927.0	2914.9	2878.5	2888.2	2871.2
3°	2924.6	2907.6	2851.8	2849.3	2825.1
4°	2922.2	2895.5	2817.8	2788.7	2769.3
5°	2919.7	2880.9	2776.5	2723.1	2694.0
6°	2917.3	2863.9	2723.1	2643.0	2601.8
7°	2912.4	2837.2	2667.3	2558.1	2504.7
8°	2907.6	2812.9	2596.9	2465.9	2400.3
9°	2902.7	2781.4	2526.5	2366.4	2288.7
10°	2893.0	2749.8	2453.7	2264.4	2181.9
11°	2888.2	2713.4	2383.4	2167.3	2070.3
12°	2878.5	2674.6	2308.1	2065.4	1980.5
13°	2868.8	2633.3	2215.9	1978.0	1876.1
14°	2859.1	2589.6	2135.8	1881.0	1786.3
15°	2846.9	2543.5	2046.0	1788.7	1691.6
16°	2834.8	2490.1	1965.9	1694.1	1592.1
17°	2822.6	2439.2	1890.7	1606.7	1514.5
18°	2808.1	2388.2	1803.3	1521.8	1432.0
19°	2788.7	2330.0	1732.9	1444.1	1361.6
20°	2771.7	2276.6	1652.8	1371.3	1298.5
21°	2752.3	2211.0	1572.7	1303.3	1230.5
22.5°	2723.1	2118.8	1470.8	1218.4	1150.4
23°	2708.6	2092.1	1429.5	1186.8	1128.6
24°	2689.2	2021.7	1361.6	1138.3	1080.0
25°	2660.0	1965.9	1303.3	1094.6	1048.5
26°	2633.3	1897.9	1245.1	1055.8	1009.6
27°	2606.6	1832.4	1194.1	1014.5	975.7
28°	2572.7	1764.5	1138.3	980.5	946.5
29°	2536.3	1701.4	1092.2	951.4	924.7
30°	2499.8	1631.0	1053.3	924.7	902.9
32.5°	2397.9	1475.6	953.8	873.7	859.2
35°	2276.6	1330.0	883.4	827.6	822.8
37.5°	2140.6	1196.5	820.3	791.2	796.1
40°	1980.5	1075.2	766.9	764.5	774.2
42.5°	1810.6	970.8	725.7	742.7	757.2
45°	1635.8	876.2	684.4	720.8	740.2
47.5°	1453.8	793.6	648.0	694.1	716.0
50°	1269.3	713.5	609.2	662.6	684.4
52.5°	1104.3	643.2	570.4	626.2	650.4
55°	939.3	575.2	529.1	587.3	606.8
57.5°	796.1	512.1	485.4	543.7	558.2
60°	662.6	451.4	441.7	495.1	512.1
62.5°	541.2	398.0	400.5	451.4	468.4
65°	441.7	347.1	364.1	410.2	424.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	359.2	298.5	327.7	376.2	388.3
70°	284.0	254.8	298.5	342.2	354.3
72.5°	225.7	216.0	269.4	315.5	325.2
75°	172.3	179.6	245.1	288.8	301.0
77.5°	123.8	150.5	220.9	267.0	276.7
80°	87.4	123.8	201.4	247.6	257.3
82.5°	55.8	101.9	182.0	230.6	240.3
85°	29.1	82.5	165.0	213.6	223.3
87.5°	12.1	68.0	148.0	196.6	206.3
90°	0.0	55.8	133.5	182.0	189.3
92.5°	0.0	48.5	121.4	167.5	174.7
95°	0.0	41.3	111.6	152.9	160.2
97.5°	0.0	38.8	99.5	140.8	148.0
100°	0.0	34.0	89.8	128.6	138.3
102.5°	0.0	31.6	82.5	116.5	126.2
105°	0.0	29.1	75.2	106.8	116.5
107.5°	0.0	26.7	70.4	99.5	106.8
110°	0.0	26.7	63.1	92.2	99.5
112.5°	2.4	24.3	58.2	82.5	89.8
115°	2.4	24.3	53.4	77.7	82.5
117.5°	2.4	24.3	51.0	70.4	75.2
120°	2.4	21.8	48.5	65.5	70.4
122.5°	2.4	21.8	46.1	60.7	63.1
125°	2.4	19.4	43.7	55.8	60.7
127.5°	2.4	19.4	41.3	53.4	55.8
130°	2.4	19.4	38.8	48.5	53.4
132.5°	2.4	17.0	36.4	46.1	48.5
135°	2.4	17.0	34.0	43.7	46.1
137.5°	2.4	14.6	31.6	41.3	43.7
140°	2.4	14.6	29.1	38.8	41.3
142.5°	2.4	12.1	26.7	36.4	38.8
145°	2.4	12.1	24.3	34.0	36.4
147.5°	2.4	12.1	21.8	31.6	34.0
150°	2.4	9.7	19.4	29.1	31.6
152.5°	2.4	9.7	17.0	26.7	29.1
155°	2.4	9.7	17.0	24.3	26.7
157.5°	2.4	7.3	14.6	19.4	24.3
160°	2.4	7.3	12.1	17.0	21.8
162.5°	2.4	7.3	12.1	14.6	17.0
165°	2.4	4.9	9.7	12.1	14.6
167.5°	2.4	4.9	7.3	9.7	12.1
170°	2.4	4.9	7.3	7.3	9.7
172.5°	2.4	4.9	4.9	4.9	4.9
175°	4.9	4.9	4.9	4.9	2.4
177.5°	4.9	4.9	4.9	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)