

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: P566441

Luminaire Tested: **4SNX-45SL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566441
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-L850-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

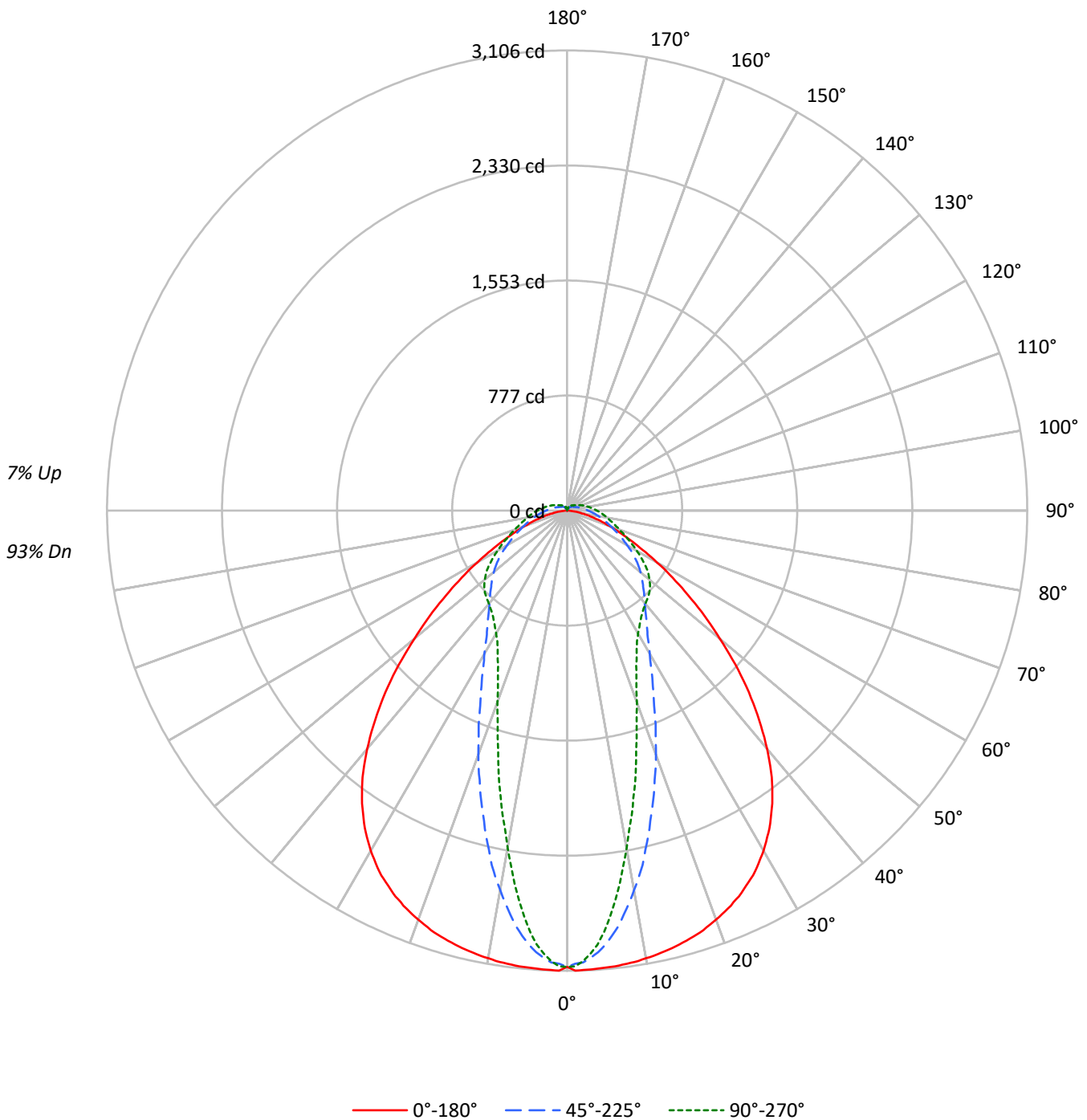
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4910.0 lumens
Efficiency: N/A
Efficacy: 164.8 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°	33155	33155	33155
5°	33327	30473	29162
10°	33281	26128	22626
15°	33265	21313	16958
20°	33159	16978	12690
25°	32857	13304	10071
30°	32169	10767	8591
35°	30818	9113	7814
40°	28508	8044	7397
45°	25346	7360	7168
50°	21470	6773	6772
55°	17640	6138	6184
60°	14105	5398	5425
65°	10949	4740	4720
70°	8503	4192	4176
75°	6576	3767	3805
80°	4643	3447	3537
85°	2585	3214	3391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.8	5.6
10°-20°	639.4	13.0
20°-30°	759.0	15.5
30°-40°	763.6	15.6
40°-50°	709.8	14.5
50°-60°	584.5	11.9
60°-70°	411.8	8.4
70°-80°	269.1	5.5
80°-90°	171.8	3.5
90°-100°	112.7	2.3
100°-110°	76.5	1.6
110°-120°	52.4	1.1
120°-130°	36.3	0.7
130°-140°	24.4	0.5
140°-150°	15.0	0.3
150°-160°	7.8	0.2
160°-170°	2.8	0.1
170°-180°	0.5	0.0
0°-30°	1671.1	34.0
0°-40°	2434.7	49.6
0°-60°	3729.0	75.9
0°-90°	4581.6	93.3
90°-120°	241.6	4.9
90°-150°	317.3	6.5
90°-180°	328.0	6.7
0°-180°	4910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3080	3080	3080	3080	3080	
5°	3096	3054	2944	2887	2856	295
15°	3018	2697	2169	1896	1794	852
25°	2820	2084	1382	1160	1112	1298
35°	2414	1410	937	878	872	1501
45°	1734	929	726	764	785	1331
55°	996	610	561	623	643	899
65°	468	368	386	435	450	475
75°	183	190	260	306	319	198
85°	31	88	175	226	237	39
90°	0	59	142	193	201	2
95°	0	44	118	162	170	0
105°	0	31	80	113	124	0
115°	3	26	57	82	88	2
125°	3	21	46	59	64	2
135°	3	18	36	46	49	2
145°	3	13	26	36	39	2
155°	3	10	18	26	28	1
165°	3	5	10	13	15	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°	3080.2	3080.2	3080.2	3080.2	3080.2
1°	3105.9	3093.1	3059.6	3082.8	3077.6
2°	3103.3	3090.5	3051.9	3062.2	3044.2
3°	3100.8	3082.8	3023.6	3021.0	2995.3
4°	3098.2	3069.9	2987.6	2956.7	2936.1
5°	3095.6	3054.5	2943.8	2887.2	2856.3
6°	3093.1	3036.4	2887.2	2802.3	2758.5
7°	3087.9	3008.1	2828.0	2712.2	2655.6
8°	3082.8	2982.4	2753.4	2614.4	2545.0
9°	3077.6	2949.0	2678.8	2508.9	2426.6
10°	3067.3	2915.5	2601.6	2400.8	2313.4
11°	3062.2	2876.9	2526.9	2297.9	2195.0
12°	3051.9	2835.7	2447.2	2189.8	2099.8
13°	3041.6	2792.0	2349.4	2097.2	1989.1
14°	3031.3	2745.7	2264.5	1994.3	1893.9
15°	3018.4	2696.8	2169.3	1896.5	1793.6
16°	3005.6	2640.2	2084.3	1796.1	1688.1
17°	2992.7	2586.1	2004.6	1703.5	1605.7
18°	2977.3	2532.1	1911.9	1613.4	1518.2
19°	2956.7	2470.3	1837.3	1531.1	1443.6
20°	2938.7	2413.7	1752.4	1453.9	1376.7
21°	2918.1	2344.2	1667.5	1381.8	1304.6
22.5°	2887.2	2246.5	1559.4	1291.8	1219.7
23°	2871.8	2218.1	1515.6	1258.3	1196.6
24°	2851.2	2143.5	1443.6	1206.9	1145.1
25°	2820.3	2084.3	1381.8	1160.5	1111.6
26°	2792.0	2012.3	1320.1	1119.4	1070.5
27°	2763.7	1942.8	1266.0	1075.6	1034.4
28°	2727.7	1870.8	1206.9	1039.6	1003.6
29°	2689.1	1803.9	1158.0	1008.7	980.4
30°	2650.5	1729.2	1116.8	980.4	957.3
32.5°	2542.4	1564.5	1011.3	926.4	910.9
35°	2413.7	1410.1	936.7	877.5	872.3
37.5°	2269.6	1268.6	869.8	838.9	844.0
40°	2099.8	1140.0	813.1	810.6	820.9
42.5°	1919.7	1029.3	769.4	787.4	802.9
45°	1734.4	928.9	725.7	764.3	784.8
47.5°	1541.4	841.5	687.1	736.0	759.1
50°	1345.8	756.5	645.9	702.5	725.7
52.5°	1170.8	681.9	604.7	663.9	689.6
55°	995.9	609.9	561.0	622.7	643.3
57.5°	844.0	543.0	514.7	576.4	591.8
60°	702.5	478.6	468.3	524.9	543.0
62.5°	573.8	422.0	424.6	478.6	496.6
65°	468.3	368.0	386.0	434.9	450.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	380.8	316.5	347.4	398.9	411.7
70°	301.1	270.2	316.5	362.8	375.7
72.5°	239.3	229.0	285.6	334.5	344.8
75°	182.7	190.4	259.9	306.2	319.1
77.5°	131.2	159.5	234.2	283.1	293.4
80°	92.6	131.2	213.6	262.5	272.8
82.5°	59.2	108.1	193.0	244.5	254.8
85°	30.9	87.5	175.0	226.4	236.7
87.5°	12.9	72.1	157.0	208.4	218.7
90°	0.0	59.2	141.5	193.0	200.7
92.5°	0.0	51.5	128.7	177.6	185.3
95°	0.0	43.7	118.4	162.1	169.8
97.5°	0.0	41.2	105.5	149.2	157.0
100°	0.0	36.0	95.2	136.4	146.7
102.5°	0.0	33.5	87.5	123.5	133.8
105°	0.0	30.9	79.8	113.2	123.5
107.5°	0.0	28.3	74.6	105.5	113.2
110°	0.0	28.3	66.9	97.8	105.5
112.5°	2.6	25.7	61.8	87.5	95.2
115°	2.6	25.7	56.6	82.3	87.5
117.5°	2.6	25.7	54.0	74.6	79.8
120°	2.6	23.2	51.5	69.5	74.6
122.5°	2.6	23.2	48.9	64.3	66.9
125°	2.6	20.6	46.3	59.2	64.3
127.5°	2.6	20.6	43.7	56.6	59.2
130°	2.6	20.6	41.2	51.5	56.6
132.5°	2.6	18.0	38.6	48.9	51.5
135°	2.6	18.0	36.0	46.3	48.9
137.5°	2.6	15.4	33.5	43.7	46.3
140°	2.6	15.4	30.9	41.2	43.7
142.5°	2.6	12.9	28.3	38.6	41.2
145°	2.6	12.9	25.7	36.0	38.6
147.5°	2.6	12.9	23.2	33.5	36.0
150°	2.6	10.3	20.6	30.9	33.5
152.5°	2.6	10.3	18.0	28.3	30.9
155°	2.6	10.3	18.0	25.7	28.3
157.5°	2.6	7.7	15.4	20.6	25.7
160°	2.6	7.7	12.9	18.0	23.2
162.5°	2.6	7.7	12.9	15.4	18.0
165°	2.6	5.1	10.3	12.9	15.4
167.5°	2.6	5.1	7.7	10.3	12.9
170°	2.6	5.1	7.7	7.7	10.3
172.5°	2.6	5.1	5.1	5.1	5.1
175°	5.1	5.1	5.1	5.1	2.6
177.5°	5.1	5.1	5.1	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)