

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: P566818

Luminaire Tested: **4SNX-81HL-LC-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-81HL-LC-UNV-L930-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

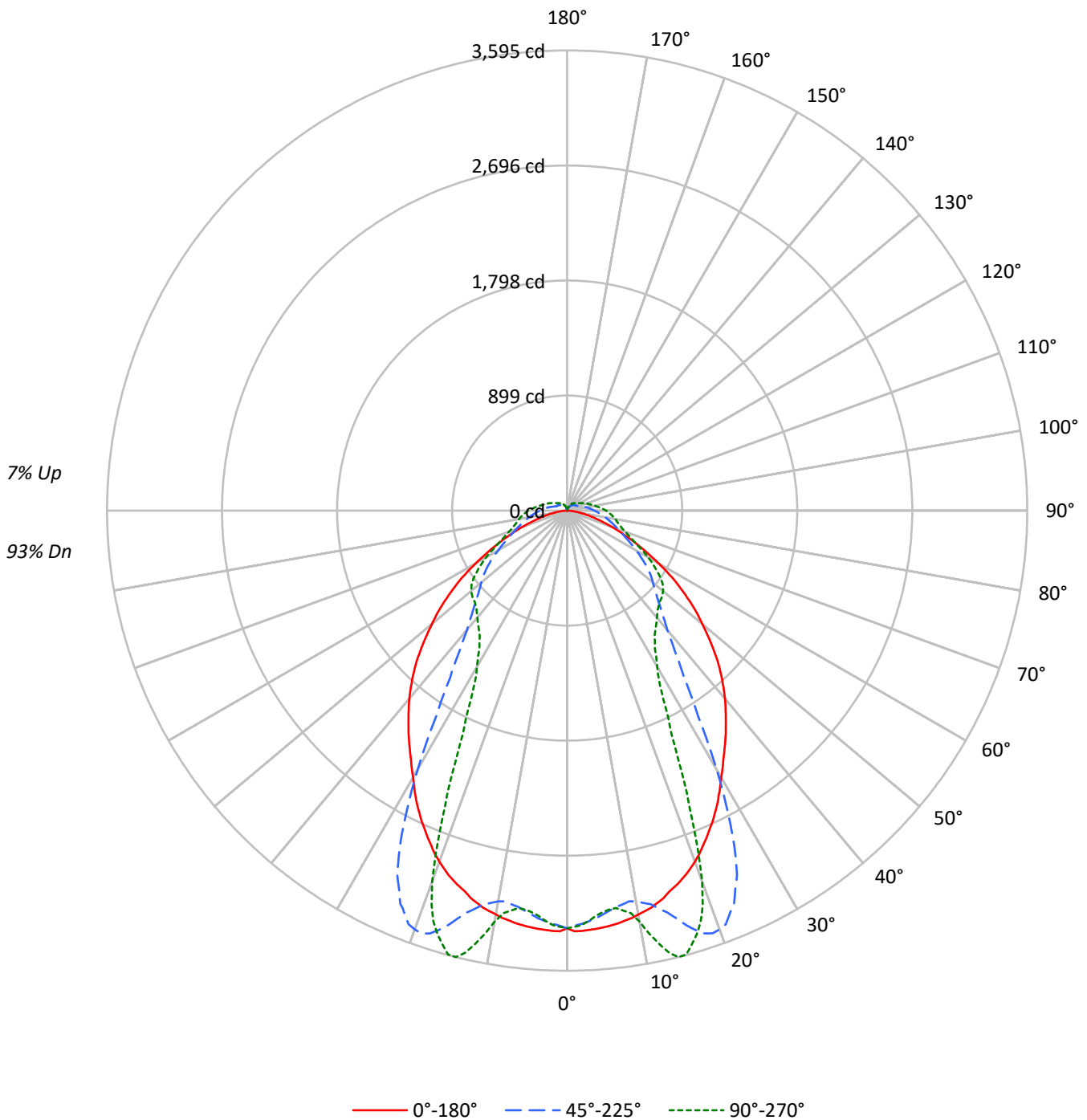
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7256.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 55.1
Input Voltage (V): NR
Input Current (A_{in}): 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	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	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	68	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	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35142	35142	35142
5°	35185	32798	32167
10°	34763	31142	31898
15°	33953	32393	33958
20°	32927	33735	28421
25°	31273	30239	17475
30°	29219	22504	12647
35°	27540	15520	10669
40°	26036	12034	9832
45°	24285	10237	9299
50°	22005	9178	9128
55°	19602	8291	8445
60°	16527	7164	7305
65°	13339	6231	6097
70°	10355	5591	5368
75°	7897	5186	5006
80°	5390	4900	4955
85°	2777	4659	4920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.8	4.2
10°-20°	928.3	12.8
20°-30°	1250.0	17.2
30°-40°	1183.0	16.3
40°-50°	1044.2	14.4
50°-60°	848.1	11.7
60°-70°	576.8	7.9
70°-80°	371.1	5.1
80°-90°	246.8	3.4
90°-100°	169.6	2.3
100°-110°	113.8	1.6
110°-120°	80.3	1.1
120°-130°	57.4	0.8
130°-140°	40.5	0.6
140°-150°	25.1	0.3
150°-160°	12.3	0.2
160°-170°	4.3	0.1
170°-180°	0.7	0.0
0°-30°	2482.1	34.2
0°-40°	3665.1	50.5
0°-60°	5557.3	76.6
0°-90°	6752.0	93.1
90°-120°	363.7	5.0
90°-150°	486.7	6.7
90°-180°	504.0	6.9
0°-180°	7256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3265	3265	3265	3265	3265	
5°	3268	3238	3168	3166	3151	310
15°	3081	3061	3297	3588	3592	869
25°	2684	3183	3141	2281	1929	1232
35°	2157	3027	1595	1229	1191	1350
45°	1662	2036	1009	997	1018	1276
55°	1107	1204	758	846	878	988
65°	570	649	507	564	582	573
75°	219	307	358	401	420	239
85°	33	131	254	321	343	44
90°	1	91	212	285	304	2
95°	1	70	178	242	258	1
105°	2	49	117	165	185	2
115°	2	42	86	123	138	3
125°	3	36	74	93	100	3
135°	4	28	61	78	82	3
145°	4	20	43	60	65	3
155°	6	12	27	40	45	3
165°	6	8	14	20	24	2
175°	7	7	7	7	6	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3264.8	3264.8	3264.8	3264.8	3264.8
1°	3287.0	3277.0	3243.8	3261.5	3252.7
2°	3285.9	3269.3	3231.6	3251.5	3240.5
3°	3280.4	3262.6	3213.9	3226.1	3209.4
4°	3274.8	3253.8	3195.0	3195.0	3176.2
5°	3268.2	3238.3	3168.5	3166.2	3150.7
6°	3260.4	3226.1	3145.2	3143.0	3134.1
7°	3249.3	3205.0	3119.7	3135.2	3128.6
8°	3236.0	3185.1	3106.4	3145.2	3155.2
9°	3223.9	3160.7	3090.9	3176.2	3184.0
10°	3203.9	3138.5	3100.9	3238.3	3261.5
11°	3187.3	3119.7	3123.0	3299.2	3369.0
12°	3170.7	3099.8	3144.1	3375.6	3460.9
13°	3143.0	3084.3	3190.6	3458.7	3546.2
14°	3118.6	3072.1	3236.0	3542.9	3595.0
15°	3080.9	3061.0	3297.0	3588.3	3591.7
16°	3055.5	3053.2	3367.9	3591.7	3529.6
17°	3026.7	3049.9	3425.5	3534.1	3460.9
18°	2994.5	3056.6	3473.1	3462.0	3377.8
19°	2958.0	3063.2	3493.1	3362.3	3253.8
20°	2918.1	3073.2	3482.0	3258.2	3083.2
21°	2878.2	3086.5	3460.9	3148.5	2859.4
22.5°	2804.0	3118.6	3361.2	2840.5	2489.3
23°	2782.9	3125.3	3338.0	2744.2	2393.0
24°	2730.9	3152.9	3231.6	2519.3	2138.2
25°	2684.3	3182.9	3140.8	2281.1	1928.8
26°	2632.3	3205.0	3003.4	2061.7	1800.3
27°	2581.3	3218.3	2847.2	1891.1	1656.2
28°	2522.6	3232.7	2677.7	1743.8	1547.7
29°	2467.2	3234.9	2510.4	1626.3	1462.4
30°	2407.4	3223.9	2334.2	1532.2	1409.2
32.5°	2276.6	3162.9	1903.3	1352.7	1276.2
35°	2157.0	3026.7	1595.3	1228.6	1190.9
37.5°	2036.2	2811.7	1379.3	1151.1	1138.9
40°	1917.7	2556.9	1216.4	1089.0	1091.2
42.5°	1792.5	2294.4	1104.5	1038.1	1048.0
45°	1661.8	2036.2	1009.3	997.1	1018.1
47.5°	1516.7	1800.3	933.9	970.5	1002.6
50°	1379.3	1566.5	875.2	945.0	978.2
52.5°	1248.6	1374.8	822.0	901.8	940.6
55°	1106.7	1204.2	757.8	846.4	878.5
57.5°	971.6	1050.2	690.2	777.7	806.5
60°	823.1	898.5	621.5	703.5	731.2
62.5°	689.1	768.8	562.8	629.3	651.4
65°	570.5	649.2	507.4	563.9	581.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	465.3	549.5	462.0	509.6	526.2
70°	366.7	455.3	422.1	465.3	483.0
72.5°	286.9	376.7	388.9	428.7	446.5
75°	219.4	306.9	357.8	401.0	419.9
77.5°	162.9	250.4	329.0	378.9	398.8
80°	107.5	199.4	303.6	358.9	382.2
82.5°	67.6	160.6	278.1	339.0	363.4
85°	33.2	130.7	253.7	321.3	343.4
87.5°	11.1	108.6	231.5	303.6	322.4
90°	1.1	90.8	211.6	284.7	303.6
92.5°	1.1	78.7	195.0	262.6	281.4
95°	1.1	69.8	178.4	241.5	258.1
97.5°	1.1	63.1	162.9	219.4	237.1
100°	1.1	56.5	146.2	198.3	217.1
102.5°	2.2	52.1	131.8	180.6	200.5
105°	2.2	48.7	117.4	165.1	185.0
107.5°	2.2	46.5	105.2	152.9	171.7
110°	2.2	44.3	96.4	141.8	161.7
112.5°	2.2	43.2	90.8	131.8	150.7
115°	2.2	42.1	86.4	123.0	138.5
117.5°	3.3	41.0	83.1	114.1	126.3
120°	3.3	38.8	80.9	106.4	116.3
122.5°	3.3	36.6	77.5	99.7	107.5
125°	3.3	35.5	74.2	93.1	99.7
127.5°	3.3	33.2	70.9	87.5	94.2
130°	4.4	31.0	67.6	83.1	88.6
132.5°	4.4	28.8	64.3	80.9	85.3
135°	4.4	27.7	60.9	77.5	82.0
137.5°	4.4	25.5	57.6	74.2	78.7
140°	4.4	23.3	53.2	69.8	74.2
142.5°	4.4	22.2	48.7	65.4	69.8
145°	4.4	19.9	43.2	59.8	65.4
147.5°	5.5	18.8	38.8	55.4	59.8
150°	5.5	16.6	34.3	51.0	55.4
152.5°	5.5	14.4	29.9	45.4	49.9
155°	5.5	12.2	26.6	39.9	45.4
157.5°	5.5	11.1	23.3	33.2	39.9
160°	5.5	10.0	19.9	28.8	34.3
162.5°	5.5	8.9	17.7	24.4	29.9
165°	5.5	7.8	14.4	19.9	24.4
167.5°	6.6	7.8	12.2	15.5	19.9
170°	6.6	7.8	10.0	12.2	15.5
172.5°	6.6	6.6	7.8	8.9	10.0
175°	6.6	6.6	6.6	6.6	5.5
177.5°	6.6	6.6	6.6	5.5	5.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	5.5	5.5	5.5	5.5	5.5

(END OF REPORT)