

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: P567006

Luminaire Tested: **4SNX-93HL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567006
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-93HL-LC-UNV-L830-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

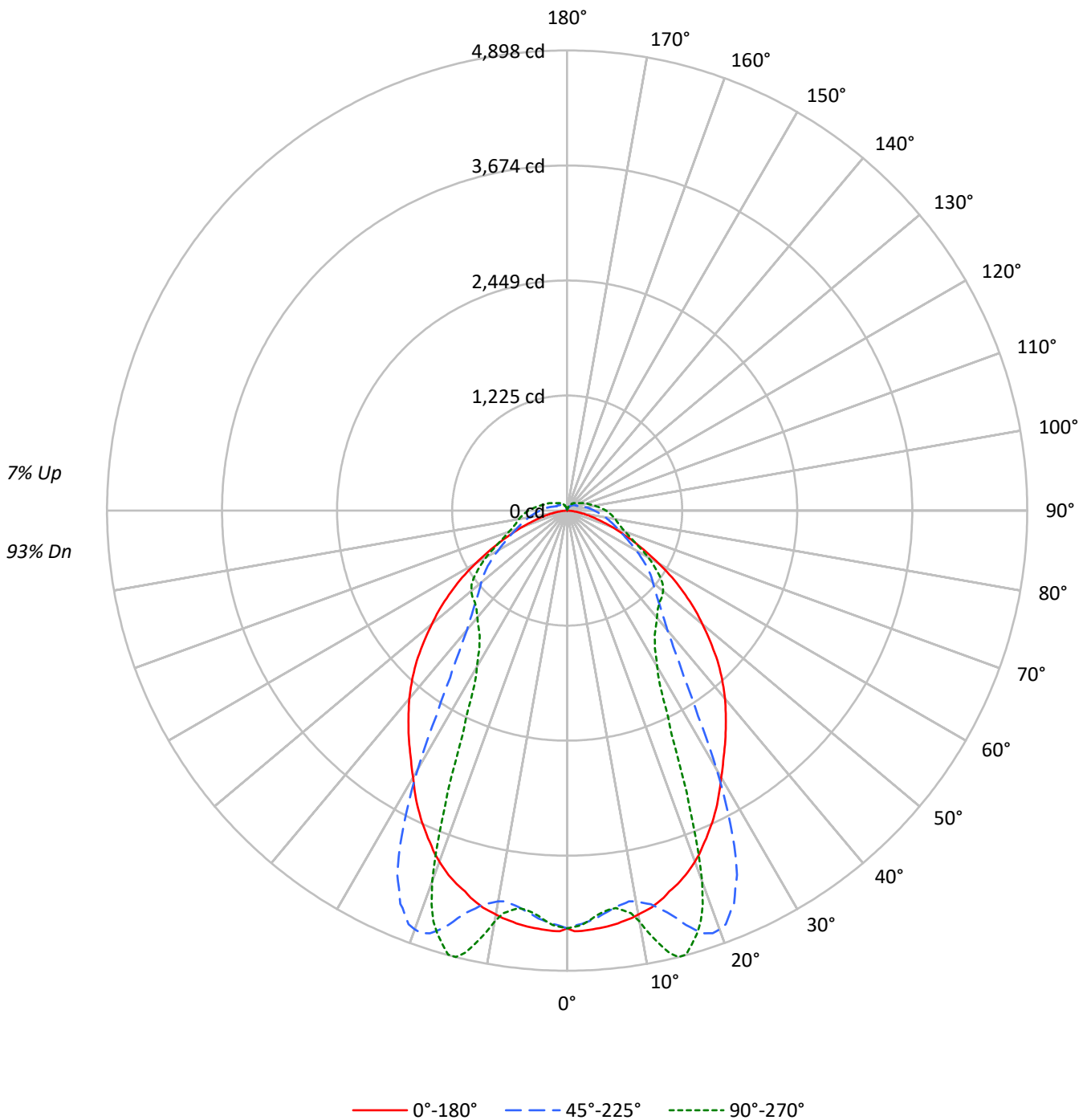
Lumens per Lamp: N/A
Luminaire Lumens: 9885.0 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 67.4
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°	47876	47876	47876
5°	47933	44682	43822
10°	47359	42426	43456
15°	46256	44129	46262
20°	44857	45958	38717
25°	42604	41195	23806
30°	39805	30659	17230
35°	37518	21143	14534
40°	35469	16395	13395
45°	33084	13945	12668
50°	29977	12503	12436
55°	26705	11294	11505
60°	22516	9760	9952
65°	18174	8488	8306
70°	14108	7616	7313
75°	10754	7066	6820
80°	7340	6674	6751
85°	3790	6347	6704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.9	4.2
10°-20°	1264.7	12.8
20°-30°	1702.9	17.2
30°-40°	1611.6	16.3
40°-50°	1422.5	14.4
50°-60°	1155.4	11.7
60°-70°	785.8	7.9
70°-80°	505.6	5.1
80°-90°	336.2	3.4
90°-100°	231.1	2.3
100°-110°	155.1	1.6
110°-120°	109.4	1.1
120°-130°	78.1	0.8
130°-140°	55.1	0.6
140°-150°	34.2	0.3
150°-160°	16.7	0.2
160°-170°	5.8	0.1
170°-180°	1.0	0.0
0°-30°	3381.4	34.2
0°-40°	4993.0	50.5
0°-60°	7570.8	76.6
0°-90°	9198.4	93.1
90°-120°	495.5	5.0
90°-150°	663.1	6.7
90°-180°	687.0	6.9
0°-180°	9885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4448	4448	4448	4448	4448	
5°	4452	4412	4316	4313	4292	422
15°	4197	4170	4492	4888	4893	1183
25°	3657	4336	4279	3108	2628	1678
35°	2938	4123	2173	1674	1622	1839
45°	2264	2774	1375	1358	1387	1738
55°	1508	1641	1032	1153	1197	1347
65°	777	884	691	768	792	780
75°	299	418	488	546	572	325
85°	45	178	346	438	468	59
90°	2	124	288	388	414	3
95°	2	95	243	329	352	1
105°	3	66	160	225	252	3
115°	3	57	118	168	189	4
125°	4	48	101	127	136	4
135°	6	38	83	106	112	5
145°	6	27	59	82	89	4
155°	8	17	36	54	62	3
165°	8	11	20	27	33	2
175°	9	9	9	9	8	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4447.8	4447.8	4447.8	4447.8	4447.8
1°	4477.9	4464.4	4419.1	4443.2	4431.2
2°	4476.4	4453.8	4402.5	4429.7	4414.6
3°	4468.9	4444.7	4378.3	4394.9	4372.3
4°	4461.3	4432.7	4352.7	4352.7	4327.0
5°	4452.3	4411.5	4316.5	4313.4	4292.3
6°	4441.7	4394.9	4284.8	4281.7	4269.7
7°	4426.6	4366.3	4250.1	4271.2	4262.1
8°	4408.5	4339.1	4231.9	4284.8	4298.3
9°	4391.9	4305.9	4210.8	4327.0	4337.6
10°	4364.8	4275.7	4224.4	4411.5	4443.2
11°	4342.1	4250.1	4254.6	4494.5	4589.6
12°	4319.5	4222.9	4283.3	4598.7	4714.9
13°	4281.7	4201.8	4346.6	4711.9	4831.1
14°	4248.5	4185.2	4408.5	4826.6	4897.5
15°	4197.2	4170.1	4491.5	4888.5	4893.0
16°	4162.5	4159.5	4588.1	4893.0	4808.5
17°	4123.3	4155.0	4666.6	4814.5	4714.9
18°	4079.5	4164.0	4731.5	4716.4	4601.7
19°	4029.7	4173.1	4758.7	4580.6	4432.7
20°	3975.4	4186.7	4743.6	4438.7	4200.2
21°	3921.0	4204.8	4714.9	4289.3	3895.4
22.5°	3819.9	4248.5	4579.1	3869.7	3391.3
23°	3791.2	4257.6	4547.4	3738.4	3260.0
24°	3720.3	4295.3	4402.5	3432.0	2912.9
25°	3656.9	4336.1	4278.7	3107.5	2627.6
26°	3586.0	4366.3	4091.6	2808.7	2452.5
27°	3516.6	4384.4	3878.8	2576.3	2256.3
28°	3436.6	4404.0	3647.9	2375.6	2108.4
29°	3361.1	4407.0	3420.0	2215.6	1992.2
30°	3279.6	4391.9	3180.0	2087.3	1919.8
32.5°	3101.5	4308.9	2592.9	1842.8	1738.7
35°	2938.5	4123.3	2173.3	1673.8	1622.4
37.5°	2774.0	3830.5	1879.0	1568.1	1551.5
40°	2612.5	3483.4	1657.2	1483.6	1486.6
42.5°	2442.0	3125.7	1504.7	1414.2	1427.8
45°	2263.9	2774.0	1374.9	1358.3	1387.0
47.5°	2066.2	2452.5	1272.3	1322.1	1365.9
50°	1879.0	2134.1	1192.3	1287.4	1332.7
52.5°	1700.9	1873.0	1119.9	1228.5	1281.4
55°	1507.7	1640.6	1032.3	1153.1	1196.8
57.5°	1323.6	1430.8	940.3	1059.5	1098.7
60°	1121.4	1224.0	846.7	958.4	996.1
62.5°	938.8	1047.4	766.7	857.3	887.4
65°	777.3	884.4	691.2	768.2	792.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	633.9	748.6	629.4	694.3	716.9
70°	499.6	620.3	575.0	633.9	658.0
72.5°	390.9	513.1	529.7	584.1	608.2
75°	298.8	418.1	487.5	546.3	572.0
77.5°	221.9	341.1	448.2	516.2	543.3
80°	146.4	271.7	413.5	489.0	520.7
82.5°	92.1	218.8	378.8	461.8	495.0
85°	45.3	178.1	345.6	437.7	467.9
87.5°	15.1	147.9	315.4	413.5	439.2
90°	1.5	123.8	288.3	387.9	413.5
92.5°	1.5	107.2	265.6	357.7	383.3
95°	1.5	95.1	243.0	329.0	351.7
97.5°	1.5	86.0	221.9	298.8	323.0
100°	1.5	77.0	199.2	270.2	295.8
102.5°	3.0	70.9	179.6	246.0	273.2
105°	3.0	66.4	160.0	224.9	252.0
107.5°	3.0	63.4	143.4	208.3	233.9
110°	3.0	60.4	131.3	193.2	220.4
112.5°	3.0	58.9	123.8	179.6	205.3
115°	3.0	57.4	117.7	167.5	188.7
117.5°	4.5	55.8	113.2	155.5	172.1
120°	4.5	52.8	110.2	144.9	158.5
122.5°	4.5	49.8	105.6	135.8	146.4
125°	4.5	48.3	101.1	126.8	135.8
127.5°	4.5	45.3	96.6	119.2	128.3
130°	6.0	42.3	92.1	113.2	120.7
132.5°	6.0	39.2	87.5	110.2	116.2
135°	6.0	37.7	83.0	105.6	111.7
137.5°	6.0	34.7	78.5	101.1	107.2
140°	6.0	31.7	72.4	95.1	101.1
142.5°	6.0	30.2	66.4	89.0	95.1
145°	6.0	27.2	58.9	81.5	89.0
147.5°	7.5	25.7	52.8	75.5	81.5
150°	7.5	22.6	46.8	69.4	75.5
152.5°	7.5	19.6	40.7	61.9	67.9
155°	7.5	16.6	36.2	54.3	61.9
157.5°	7.5	15.1	31.7	45.3	54.3
160°	7.5	13.6	27.2	39.2	46.8
162.5°	7.5	12.1	24.1	33.2	40.7
165°	7.5	10.6	19.6	27.2	33.2
167.5°	9.1	10.6	16.6	21.1	27.2
170°	9.1	10.6	13.6	16.6	21.1
172.5°	9.1	9.1	10.6	12.1	13.6
175°	9.1	9.1	9.1	9.1	7.5
177.5°	9.1	9.1	9.1	7.5	7.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	7.5	7.5	7.5	7.5	7.5

(END OF REPORT)