

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: P566977

Luminaire Tested: **4SNX-90HL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-90HL-LW-UNV-L850-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

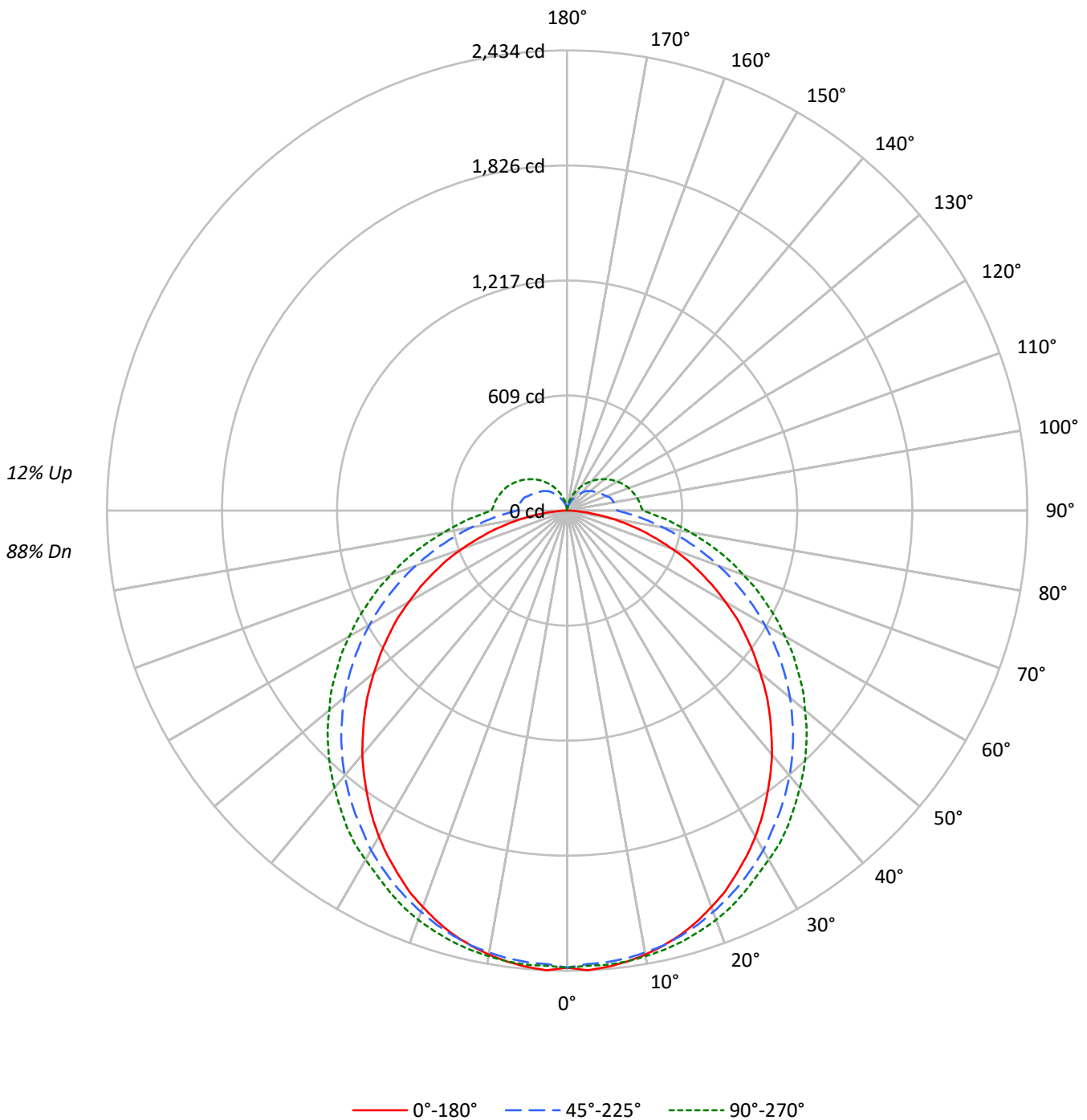
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8703.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 64.4
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	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26021	26021	26021
5°	26089	24823	24619
10°	25874	23843	23409
15°	25590	22872	22305
20°	25175	21890	21239
25°	24690	20935	20146
30°	24166	20001	19140
35°	23520	19022	18238
40°	22885	18107	17256
45°	22128	17142	16320
50°	21256	16144	15326
55°	20405	15050	14341
60°	19420	13899	13282
65°	18225	12646	12186
70°	16709	11291	10998
75°	14591	9807	9862
80°	11657	8323	8560
85°	7479	6898	7473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.5	2.6
10°-20°	660.1	7.6
20°-30°	1004.3	11.5
30°-40°	1221.1	14.0
40°-50°	1291.9	14.8
50°-60°	1211.0	13.9
60°-70°	996.2	11.4
70°-80°	689.3	7.9
80°-90°	383.3	4.4
90°-100°	252.5	2.9
100°-110°	226.4	2.6
110°-120°	187.4	2.2
120°-130°	144.9	1.7
130°-140°	102.6	1.2
140°-150°	61.9	0.7
150°-160°	29.7	0.3
160°-170°	9.7	0.1
170°-180°	1.2	0.0
0°-30°	1893.9	21.8
0°-40°	3115.0	35.8
0°-60°	5617.8	64.6
0°-90°	7686.6	88.3
90°-120°	666.4	7.7
90°-150°	975.7	11.2
90°-180°	1016.0	11.7
0°-180°	8703.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2417	2417	2417	2417	2417	
5°	2423	2419	2398	2417	2411	230
15°	2322	2329	2328	2359	2359	654
25°	2119	2149	2174	2222	2224	977
35°	1842	1891	1955	2018	2036	1153
45°	1514	1593	1690	1766	1787	1167
55°	1152	1255	1376	1462	1492	1031
65°	780	891	1030	1131	1162	773
75°	405	523	677	784	827	430
85°	89	222	376	480	522	103
90°	2	125	265	365	401	6
95°	2	119	258	353	388	1
105°	2	103	241	332	362	2
115°	3	89	204	295	328	2
125°	3	76	174	252	283	3
135°	3	60	146	207	232	2
145°	3	43	101	156	176	2
155°	4	30	63	100	116	2
165°	4	19	34	46	60	1
175°	4	8	10	10	6	0
180°	3	3	3	3	3	



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CATALOG NUMBER: 4SNX-90HL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2417.4	2417.4	2417.4	2417.4	2417.4
2.5°	2433.8	2426.3	2401.0	2417.4	2409.9
5°	2423.3	2418.8	2398.0	2417.4	2411.4
7.5°	2406.9	2405.4	2389.0	2411.4	2405.4
10°	2384.6	2387.5	2374.1	2398.0	2393.5
12.5°	2356.3	2360.7	2354.8	2381.6	2378.6
15°	2322.0	2329.4	2327.9	2359.2	2359.2
17.5°	2280.2	2290.7	2296.6	2332.4	2332.4
20°	2231.1	2247.5	2259.4	2298.1	2304.1
22.5°	2181.9	2201.3	2219.1	2259.4	2268.3
25°	2119.3	2149.1	2174.4	2222.1	2223.6
27.5°	2058.2	2091.0	2125.2	2171.4	2175.9
30°	1991.1	2032.8	2074.6	2119.3	2132.7
32.5°	1919.6	1965.8	2012.0	2071.6	2089.5
35°	1842.1	1891.3	1955.3	2017.9	2035.8
37.5°	1764.6	1819.7	1894.2	1958.3	1974.7
40°	1685.6	1746.7	1830.2	1895.7	1915.1
42.5°	1597.7	1672.2	1761.6	1831.6	1854.0
45°	1514.2	1593.2	1690.1	1766.1	1786.9
47.5°	1426.3	1509.7	1614.1	1694.5	1718.4
50°	1332.4	1427.8	1539.5	1620.0	1642.4
52.5°	1244.4	1341.3	1459.1	1542.5	1573.8
55°	1152.0	1254.9	1375.6	1462.0	1491.8
57.5°	1065.6	1164.0	1293.6	1380.1	1417.3
60°	967.2	1076.0	1205.7	1299.6	1329.4
62.5°	874.8	985.1	1119.3	1216.1	1250.4
65°	779.5	891.2	1029.8	1131.2	1162.5
67.5°	690.0	800.3	941.9	1041.8	1082.0
70°	591.7	707.9	852.5	955.3	989.6
72.5°	494.8	615.5	763.1	873.3	912.1
75°	405.4	523.1	676.6	783.9	827.1
77.5°	318.9	438.2	593.2	703.4	740.7
80°	232.5	357.7	515.7	624.5	660.2
82.5°	153.5	284.7	441.1	549.9	588.7
85°	89.4	222.1	375.6	479.9	521.6
87.5°	38.7	168.4	314.5	417.3	451.6
90°	1.5	125.2	265.3	365.1	400.9
92.5°	1.5	122.2	259.3	357.7	392.0
95°	1.5	119.2	257.8	353.2	387.5
97.5°	1.5	117.7	254.9	350.2	383.0
100°	1.5	113.3	250.4	344.3	377.1
102.5°	1.5	107.3	245.9	338.3	369.6
105°	1.5	102.8	241.4	332.3	362.2
107.5°	1.5	98.4	234.0	324.9	354.7
110°	1.5	93.9	222.1	317.4	347.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	92.4	213.1	307.0	338.3
115°	3.0	89.4	204.2	295.1	327.9
117.5°	3.0	87.9	196.7	283.2	317.4
120°	3.0	83.5	189.3	272.7	305.5
122.5°	3.0	79.0	181.8	262.3	295.1
125°	3.0	76.0	174.4	251.9	283.2
127.5°	3.0	71.5	168.4	241.4	269.8
130°	3.0	68.6	161.0	229.5	257.8
132.5°	3.0	64.1	153.5	217.6	244.4
135°	3.0	59.6	146.1	207.2	232.5
137.5°	3.0	53.7	137.1	195.2	219.1
140°	3.0	49.2	125.2	183.3	205.7
142.5°	3.0	46.2	113.3	169.9	190.8
145°	3.0	43.2	101.3	156.5	175.9
147.5°	3.0	40.2	90.9	143.1	161.0
150°	3.0	35.8	80.5	131.2	146.1
152.5°	4.5	32.8	71.5	116.2	131.2
155°	4.5	29.8	62.6	99.9	116.2
157.5°	4.5	26.8	53.7	83.5	101.3
160°	4.5	23.8	46.2	68.6	86.4
162.5°	4.5	22.4	40.2	56.6	73.0
165°	4.5	19.4	34.3	46.2	59.6
167.5°	4.5	14.9	28.3	35.8	49.2
170°	4.5	11.9	22.4	25.3	37.3
172.5°	4.5	8.9	16.4	17.9	19.4
175°	4.5	7.5	10.4	10.4	6.0
177.5°	4.5	6.0	6.0	6.0	3.0
180°	3.0	3.0	3.0	3.0	3.0

(END OF REPORT)