

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: P567030

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567030
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-93HL-SLW-UNV-L830-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

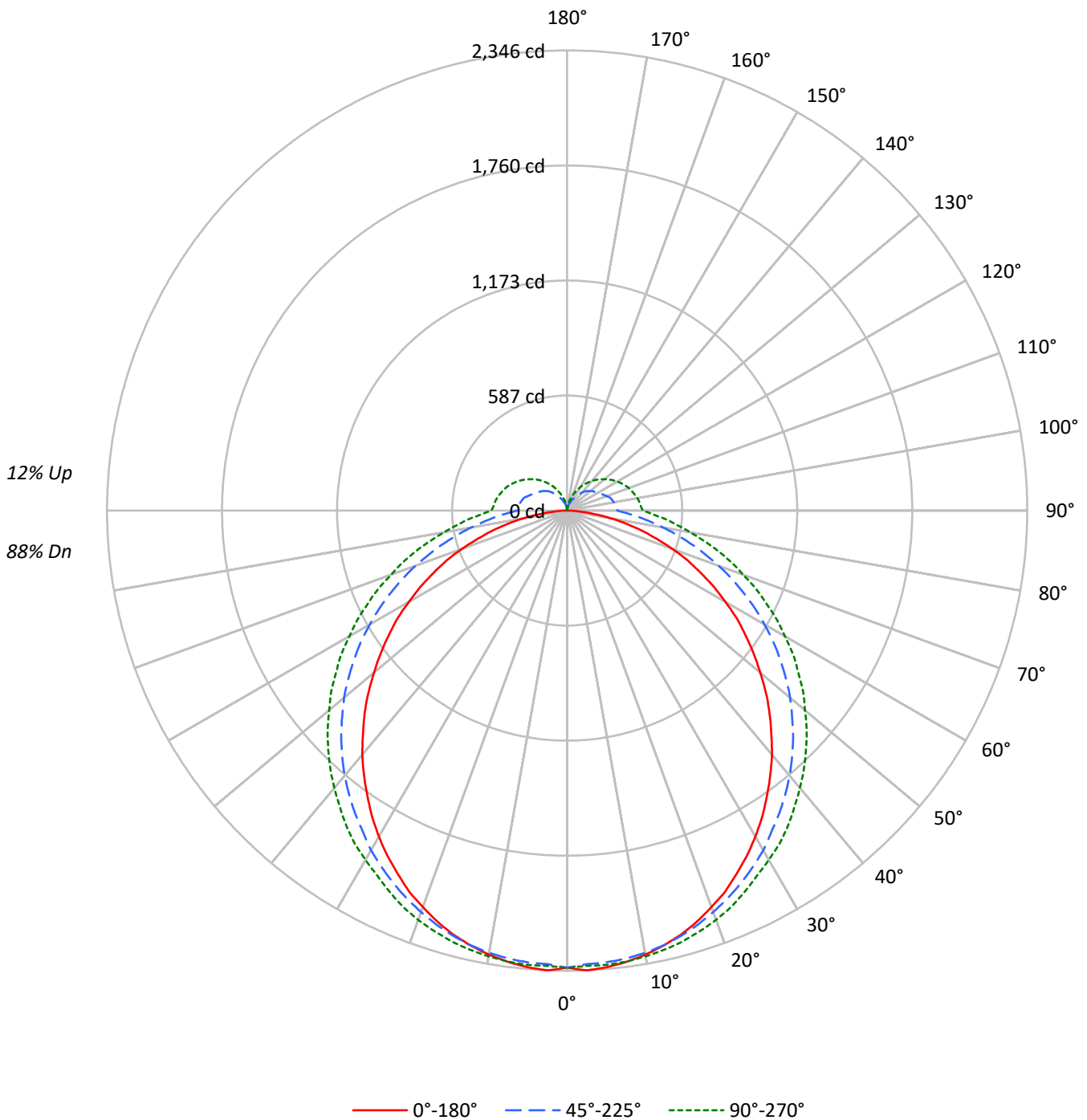
Lumens per Lamp: N/A
Luminaire Lumens: 8390.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

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	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°	25084	25084	25084
5°	25197	24445	24409
10°	25034	23963	23825
15°	24807	23442	23275
20°	24452	22873	22700
25°	24033	22302	22046
30°	23575	21729	21444
35°	23000	21087	20925
40°	22443	20500	20289
45°	21769	19851	19688
50°	20991	19159	18997
55°	20242	18349	18309
60°	19378	17473	17517
65°	18323	16474	16673
70°	16983	15346	15702
75°	15085	14050	14811
80°	12429	12761	13686
85°	8605	11613	12954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	2.6
10°-20°	636.4	7.6
20°-30°	968.1	11.5
30°-40°	1177.2	14.0
40°-50°	1245.4	14.8
50°-60°	1167.4	13.9
60°-70°	960.4	11.4
70°-80°	664.5	7.9
80°-90°	369.5	4.4
90°-100°	243.4	2.9
100°-110°	218.3	2.6
110°-120°	180.7	2.2
120°-130°	139.7	1.7
130°-140°	98.9	1.2
140°-150°	59.6	0.7
150°-160°	28.6	0.3
160°-170°	9.4	0.1
170°-180°	1.1	0.0
0°-30°	1825.8	21.8
0°-40°	3003.0	35.8
0°-60°	5415.8	64.6
0°-90°	7410.2	88.3
90°-120°	642.4	7.7
90°-150°	940.6	11.2
90°-180°	980.0	11.7
0°-180°	8390.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2330	2330	2330	2330	2330	
5°	2336	2332	2312	2330	2325	222
15°	2238	2246	2244	2274	2274	631
25°	2043	2072	2096	2142	2144	942
35°	1776	1823	1885	1945	1963	1111
45°	1460	1536	1629	1703	1723	1125
55°	1111	1210	1326	1410	1438	994
65°	751	859	993	1090	1121	745
75°	391	504	652	756	797	415
85°	86	214	362	463	503	99
90°	1	121	256	352	386	6
95°	1	115	249	340	374	1
105°	1	99	233	320	349	1
115°	3	86	197	284	316	2
125°	3	73	168	243	273	3
135°	3	58	141	200	224	2
145°	3	42	98	151	170	2
155°	4	29	60	96	112	2
165°	4	19	33	44	58	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2330.4	2330.4	2330.4	2330.4	2330.4
2.5°	2346.2	2339.0	2314.6	2330.4	2323.2
5°	2336.2	2331.9	2311.7	2330.4	2324.7
7.5°	2320.4	2318.9	2303.1	2324.7	2318.9
10°	2298.8	2301.7	2288.8	2311.7	2307.4
12.5°	2271.5	2275.8	2270.1	2295.9	2293.1
15°	2238.5	2245.6	2244.2	2274.4	2274.4
17.5°	2198.2	2208.3	2214.0	2248.5	2248.5
20°	2150.8	2166.6	2178.1	2215.5	2221.2
22.5°	2103.4	2122.1	2139.3	2178.1	2186.7
25°	2043.1	2071.8	2096.2	2142.2	2143.6
27.5°	1984.2	2015.8	2048.8	2093.4	2097.7
30°	1919.5	1959.7	2000.0	2043.1	2056.0
32.5°	1850.5	1895.1	1939.6	1997.1	2014.3
35°	1775.8	1823.2	1885.0	1945.4	1962.6
37.5°	1701.1	1754.3	1826.1	1887.9	1903.7
40°	1625.0	1683.9	1764.3	1827.6	1846.2
42.5°	1540.2	1612.0	1698.2	1765.8	1787.3
45°	1459.7	1535.9	1629.3	1702.6	1722.7
47.5°	1375.0	1455.4	1556.0	1633.6	1656.6
50°	1284.5	1376.4	1484.2	1561.8	1583.3
52.5°	1199.7	1293.1	1406.6	1487.0	1517.2
55°	1110.6	1209.7	1326.1	1409.5	1438.2
57.5°	1027.3	1122.1	1247.1	1330.4	1366.4
60°	932.5	1037.3	1162.3	1252.9	1281.6
62.5°	843.4	949.7	1079.0	1172.4	1205.4
65°	751.4	859.2	992.8	1090.5	1120.7
67.5°	665.2	771.5	908.0	1004.3	1043.1
70°	570.4	682.5	821.8	921.0	954.0
72.5°	477.0	593.4	735.6	841.9	879.3
75°	390.8	504.3	652.3	755.7	797.4
77.5°	307.5	422.4	571.8	678.1	714.1
80°	224.1	344.8	497.1	602.0	636.5
82.5°	148.0	274.4	425.3	530.2	567.5
85°	86.2	214.1	362.1	462.6	502.9
87.5°	37.4	162.4	303.2	402.3	435.3
90°	1.4	120.7	255.7	352.0	386.5
92.5°	1.4	117.8	250.0	344.8	377.9
95°	1.4	114.9	248.6	340.5	373.6
97.5°	1.4	113.5	245.7	337.6	369.2
100°	1.4	109.2	241.4	331.9	363.5
102.5°	1.4	103.4	237.1	326.1	356.3
105°	1.4	99.1	232.8	320.4	349.1
107.5°	1.4	94.8	225.6	313.2	341.9
110°	1.4	90.5	214.1	306.0	334.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	89.1	205.5	296.0	326.1
115°	2.9	86.2	196.8	284.5	316.1
117.5°	2.9	84.8	189.7	273.0	306.0
120°	2.9	80.5	182.5	262.9	294.5
122.5°	2.9	76.1	175.3	252.9	284.5
125°	2.9	73.3	168.1	242.8	273.0
127.5°	2.9	69.0	162.4	232.8	260.1
130°	2.9	66.1	155.2	221.3	248.6
132.5°	2.9	61.8	148.0	209.8	235.6
135°	2.9	57.5	140.8	199.7	224.1
137.5°	2.9	51.7	132.2	188.2	211.2
140°	2.9	47.4	120.7	176.7	198.3
142.5°	2.9	44.5	109.2	163.8	183.9
145°	2.9	41.7	97.7	150.9	169.5
147.5°	2.9	38.8	87.6	137.9	155.2
150°	2.9	34.5	77.6	126.4	140.8
152.5°	4.3	31.6	69.0	112.1	126.4
155°	4.3	28.7	60.3	96.3	112.1
157.5°	4.3	25.9	51.7	80.5	97.7
160°	4.3	23.0	44.5	66.1	83.3
162.5°	4.3	21.6	38.8	54.6	70.4
165°	4.3	18.7	33.0	44.5	57.5
167.5°	4.3	14.4	27.3	34.5	47.4
170°	4.3	11.5	21.6	24.4	35.9
172.5°	4.3	8.6	15.8	17.2	18.7
175°	4.3	7.2	10.1	10.1	5.7
177.5°	4.3	5.7	5.7	5.7	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)