

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: P566021

Luminaire Tested: **4SNX-104HL-LW-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566021
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-104HL-LW-UNV-L950-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

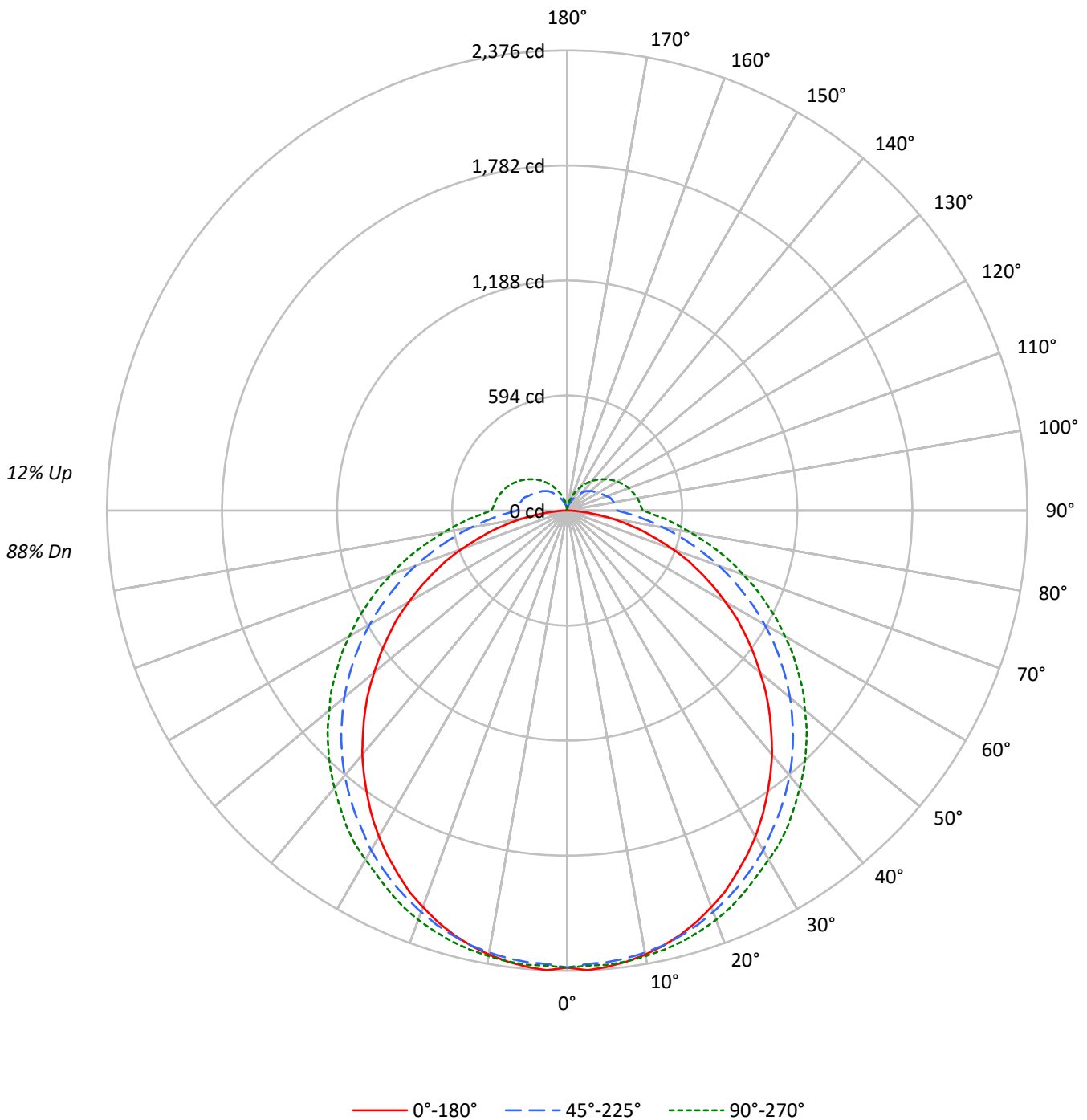
Lumens per Lamp: N/A
Luminaire Lumens: 8495.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 75.5
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°	25399	25399	25399
5°	25465	24230	24031
10°	25255	23274	22850
15°	24978	22325	21772
20°	24572	21367	20731
25°	24100	20435	19665
30°	23588	19523	18683
35°	22958	18568	17802
40°	22338	17673	16844
45°	21599	16732	15930
50°	20747	15758	14959
55°	19917	14690	13999
60°	18956	13567	12964
65°	17788	12343	11895
70°	16308	11021	10735
75°	14242	9574	9627
80°	11376	8123	8355
85°	7303	6732	7295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.0	2.6
10°-20°	644.4	7.6
20°-30°	980.3	11.5
30°-40°	1191.9	14.0
40°-50°	1261.0	14.8
50°-60°	1182.0	13.9
60°-70°	972.4	11.4
70°-80°	672.8	7.9
80°-90°	374.1	4.4
90°-100°	246.5	2.9
100°-110°	221.0	2.6
110°-120°	182.9	2.2
120°-130°	141.4	1.7
130°-140°	100.1	1.2
140°-150°	60.4	0.7
150°-160°	29.0	0.3
160°-170°	9.5	0.1
170°-180°	1.2	0.0
0°-30°	1848.6	21.8
0°-40°	3040.5	35.8
0°-60°	5483.6	64.6
0°-90°	7502.9	88.3
90°-120°	650.5	7.7
90°-150°	952.4	11.2
90°-180°	992.0	11.7
0°-180°	8495.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2360	2360	2360	2360	2360	
5°	2365	2361	2341	2360	2354	225
15°	2266	2274	2272	2303	2303	639
25°	2069	2098	2122	2169	2170	954
35°	1798	1846	1909	1970	1987	1125
45°	1478	1555	1650	1724	1744	1139
55°	1124	1225	1343	1427	1456	1007
65°	761	870	1005	1104	1135	754
75°	396	511	660	765	807	420
85°	87	217	367	468	509	100
90°	2	122	259	356	391	6
95°	2	116	252	345	378	1
105°	2	100	236	324	354	2
115°	3	87	199	288	320	2
125°	3	74	170	246	276	3
135°	3	58	143	202	227	2
145°	3	42	99	153	172	2
155°	4	29	61	98	114	2
165°	4	19	34	45	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°	2359.6	2359.6	2359.6	2359.6	2359.6
2.5°	2375.6	2368.3	2343.6	2359.6	2352.3
5°	2365.4	2361.0	2340.7	2359.6	2353.8
7.5°	2349.4	2347.9	2331.9	2353.8	2347.9
10°	2327.6	2330.5	2317.4	2340.7	2336.3
12.5°	2299.9	2304.3	2298.5	2324.7	2321.8
15°	2266.5	2273.8	2272.3	2302.8	2302.8
17.5°	2225.7	2235.9	2241.7	2276.7	2276.7
20°	2177.7	2193.7	2205.4	2243.2	2249.0
22.5°	2129.7	2148.6	2166.1	2205.4	2214.1
25°	2068.6	2097.7	2122.5	2169.0	2170.5
27.5°	2009.0	2041.0	2074.5	2119.6	2123.9
30°	1943.5	1984.3	2025.0	2068.6	2081.7
32.5°	1873.7	1918.8	1963.9	2022.1	2039.5
35°	1798.1	1846.1	1908.6	1969.7	1987.2
37.5°	1722.4	1776.2	1849.0	1911.5	1927.5
40°	1645.3	1705.0	1786.4	1850.4	1869.3
42.5°	1559.5	1632.2	1719.5	1787.9	1809.7
45°	1478.0	1555.1	1649.7	1723.9	1744.2
47.5°	1392.2	1473.6	1575.5	1654.0	1677.3
50°	1300.5	1393.6	1502.7	1581.3	1603.1
52.5°	1214.7	1309.3	1424.2	1505.7	1536.2
55°	1124.5	1224.9	1342.7	1427.1	1456.2
57.5°	1040.1	1136.1	1262.7	1347.1	1383.5
60°	944.1	1050.3	1176.9	1268.5	1297.6
62.5°	853.9	961.6	1092.5	1187.1	1220.5
65°	760.8	869.9	1005.2	1104.1	1134.7
67.5°	673.5	781.2	919.4	1016.9	1056.1
70°	577.5	691.0	832.1	932.5	965.9
72.5°	483.0	600.8	744.8	852.5	890.3
75°	395.7	510.6	660.5	765.2	807.4
77.5°	311.3	427.7	579.0	686.6	723.0
80°	226.9	349.1	503.3	609.5	644.4
82.5°	149.8	277.9	430.6	536.8	574.6
85°	87.3	216.8	366.6	468.4	509.2
87.5°	37.8	164.4	306.9	407.3	440.8
90°	1.5	122.2	258.9	356.4	391.3
92.5°	1.5	119.3	253.1	349.1	382.6
95°	1.5	116.4	251.7	344.8	378.2
97.5°	1.5	114.9	248.8	341.9	373.9
100°	1.5	110.6	244.4	336.0	368.0
102.5°	1.5	104.7	240.0	330.2	360.8
105°	1.5	100.4	235.7	324.4	353.5
107.5°	1.5	96.0	228.4	317.1	346.2
110°	1.5	91.6	216.8	309.9	339.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	90.2	208.0	299.7	330.2
115°	2.9	87.3	199.3	288.0	320.0
117.5°	2.9	85.8	192.0	276.4	309.9
120°	2.9	81.5	184.8	266.2	298.2
122.5°	2.9	77.1	177.5	256.0	288.0
125°	2.9	74.2	170.2	245.9	276.4
127.5°	2.9	69.8	164.4	235.7	263.3
130°	2.9	66.9	157.1	224.0	251.7
132.5°	2.9	62.6	149.8	212.4	238.6
135°	2.9	58.2	142.6	202.2	226.9
137.5°	2.9	52.4	133.8	190.6	213.8
140°	2.9	48.0	122.2	178.9	200.8
142.5°	2.9	45.1	110.6	165.8	186.2
145°	2.9	42.2	98.9	152.7	171.7
147.5°	2.9	39.3	88.7	139.7	157.1
150°	2.9	34.9	78.6	128.0	142.6
152.5°	4.4	32.0	69.8	113.5	128.0
155°	4.4	29.1	61.1	97.5	113.5
157.5°	4.4	26.2	52.4	81.5	98.9
160°	4.4	23.3	45.1	66.9	84.4
162.5°	4.4	21.8	39.3	55.3	71.3
165°	4.4	18.9	33.5	45.1	58.2
167.5°	4.4	14.5	27.6	34.9	48.0
170°	4.4	11.6	21.8	24.7	36.4
172.5°	4.4	8.7	16.0	17.5	18.9
175°	4.4	7.3	10.2	10.2	5.8
177.5°	4.4	5.8	5.8	5.8	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)