

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: P566006

Luminaire Tested: **4SNX-104HL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-104HL-LN-UNV-L830-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

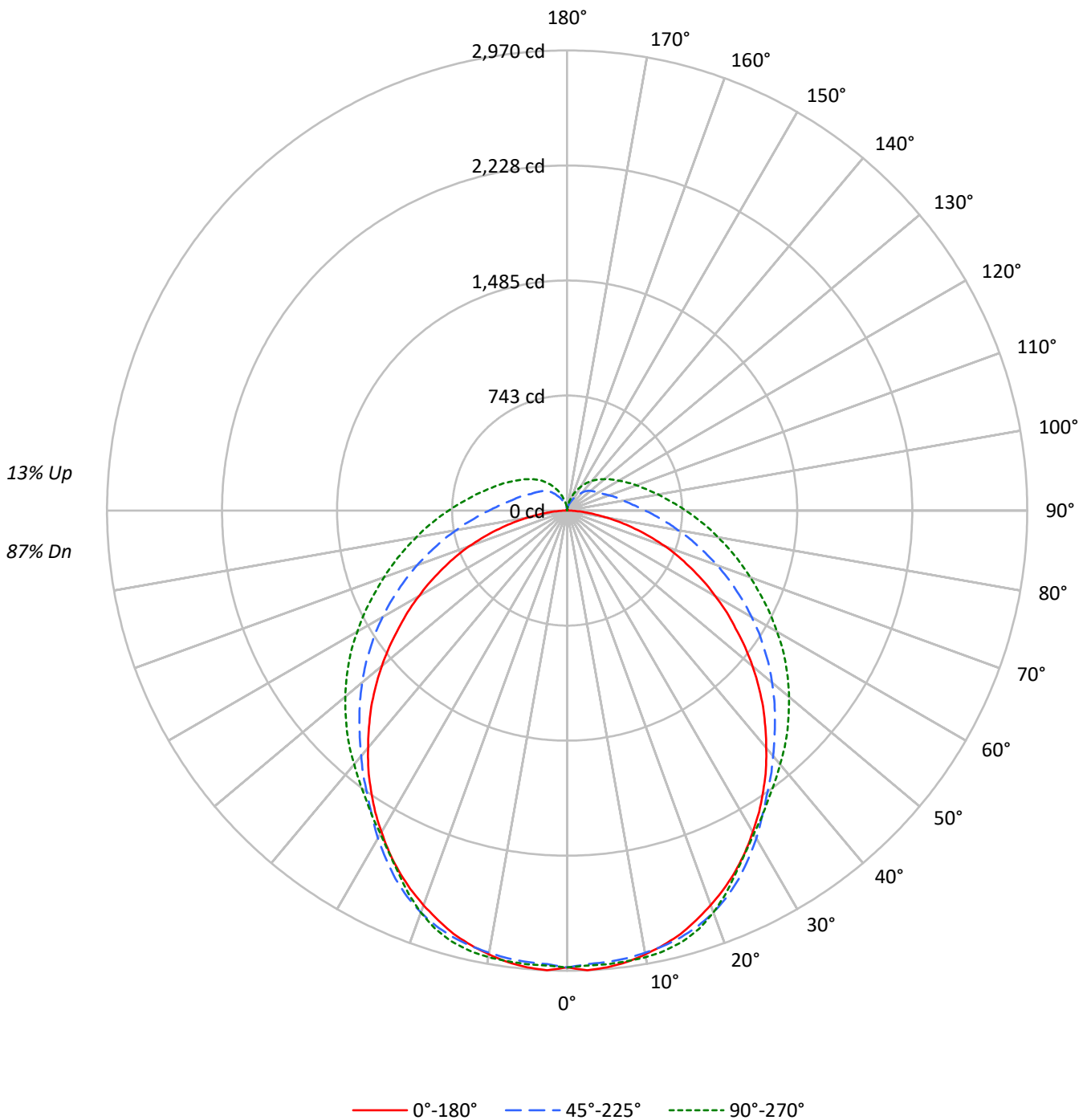
Lumens per Lamp: N/A
Luminaire Lumens: 10643.0 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 75.5
Input Voltage (V): NR
Input Current (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	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31735	31735	31735
5°	31857	30277	30009
10°	31559	29103	28624
15°	31179	27992	27227
20°	30580	26747	25448
25°	29934	25242	23361
30°	29083	23554	21618
35°	28175	21836	20319
40°	27142	20457	19267
45°	26131	19234	18358
50°	24929	18108	17444
55°	23522	16976	16548
60°	22173	15849	15612
65°	20671	14712	14753
70°	18954	13646	13977
75°	16301	12606	13338
80°	12846	11706	12797
85°	8600	11068	12486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.1	2.6
10°-20°	805.3	7.6
20°-30°	1199.1	11.3
30°-40°	1414.9	13.3
40°-50°	1475.6	13.9
50°-60°	1386.7	13.0
60°-70°	1171.0	11.0
70°-80°	884.8	8.3
80°-90°	609.9	5.7
90°-100°	426.8	4.0
100°-110°	318.5	3.0
110°-120°	240.1	2.3
120°-130°	179.1	1.7
130°-140°	125.7	1.2
140°-150°	76.0	0.7
150°-160°	36.3	0.3
160°-170°	11.6	0.1
170°-180°	1.4	0.0
0°-30°	2284.5	21.5
0°-40°	3699.4	34.8
0°-60°	6561.6	61.7
0°-90°	9227.4	86.7
90°-120°	985.4	9.3
90°-150°	1366.2	12.8
90°-180°	1416.0	13.3
0°-180°	10643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2948	2948	2948	2948	2948	
5°	2959	2954	2925	2946	2939	281
15°	2829	2842	2849	2885	2880	797
25°	2569	2622	2622	2598	2578	1182
35°	2207	2288	2245	2263	2268	1380
45°	1788	1876	1896	1974	2010	1377
55°	1328	1442	1552	1676	1721	1192
65°	884	1025	1198	1355	1407	878
75°	453	628	870	1052	1119	482
85°	103	323	603	801	872	115
90°	2	229	503	696	765	7
95°	2	179	426	610	673	1
105°	4	128	328	476	530	4
115°	4	110	254	379	428	4
125°	5	94	215	310	350	5
135°	5	72	179	253	283	4
145°	7	52	124	193	216	4
155°	7	34	76	123	142	3
165°	9	22	40	54	72	2
175°	9	9	11	11	5	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2948.3	2948.3	2948.3	2948.3	2948.3
2.5°	2970.0	2962.7	2930.3	2948.3	2939.3
5°	2959.1	2953.7	2924.9	2946.5	2939.3
7.5°	2939.3	2937.5	2915.8	2941.1	2933.9
10°	2908.6	2914.0	2897.8	2932.1	2926.7
12.5°	2872.5	2883.4	2877.9	2915.8	2910.4
15°	2829.2	2841.9	2849.1	2885.2	2879.7
17.5°	2771.5	2794.9	2811.2	2840.0	2831.0
20°	2710.1	2742.6	2760.7	2775.1	2760.7
22.5°	2643.4	2686.7	2697.5	2690.3	2675.9
25°	2569.4	2621.7	2621.7	2598.3	2578.4
27.5°	2486.4	2551.4	2533.3	2506.2	2490.0
30°	2396.2	2473.8	2443.1	2412.4	2408.8
32.5°	2306.0	2387.2	2342.0	2334.8	2340.2
35°	2206.7	2287.9	2244.6	2262.7	2268.1
37.5°	2107.5	2188.7	2159.8	2186.9	2203.1
40°	1999.2	2085.8	2067.8	2116.5	2138.2
42.5°	1892.8	1983.0	1981.2	2044.3	2076.8
45°	1788.1	1876.5	1896.4	1974.0	2010.0
47.5°	1674.4	1764.7	1813.4	1903.6	1939.7
50°	1562.6	1660.0	1726.8	1827.8	1869.3
52.5°	1447.1	1549.9	1642.0	1753.8	1797.1
55°	1328.0	1441.7	1551.7	1676.2	1721.4
57.5°	1221.5	1337.0	1466.9	1595.0	1647.4
60°	1104.3	1232.4	1374.9	1510.2	1562.6
62.5°	997.8	1129.5	1288.3	1430.8	1486.8
65°	884.1	1024.9	1198.1	1355.1	1407.4
67.5°	779.5	923.8	1113.3	1272.1	1329.8
70°	671.2	824.6	1030.3	1198.1	1257.6
72.5°	559.3	721.7	947.3	1125.9	1187.3
75°	452.9	627.9	869.7	1051.9	1118.7
77.5°	353.7	537.7	799.3	987.0	1051.9
80°	256.2	456.5	725.3	920.2	987.0
82.5°	169.6	386.1	665.8	860.7	931.0
85°	102.8	323.0	602.7	801.1	871.5
87.5°	46.9	270.7	552.1	748.8	817.4
90°	1.8	229.2	503.4	696.5	765.0
92.5°	1.8	200.3	463.7	651.4	718.1
95°	1.8	178.6	425.8	609.9	673.0
97.5°	1.8	164.2	397.0	570.2	631.5
100°	1.8	149.8	368.1	534.1	597.2
102.5°	3.6	137.1	346.4	501.6	561.2
105°	3.6	128.1	328.4	476.3	530.5
107.5°	3.6	122.7	308.5	451.1	501.6
110°	3.6	117.3	286.9	425.8	476.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.6	113.7	270.7	404.2	452.9
115°	3.6	110.1	254.4	378.9	427.6
117.5°	3.6	108.3	245.4	359.1	406.0
120°	5.4	102.8	234.6	341.0	386.1
122.5°	5.4	97.4	223.7	326.6	366.3
125°	5.4	93.8	214.7	310.3	350.0
127.5°	5.4	88.4	205.7	295.9	332.0
130°	5.4	83.0	198.5	281.5	315.8
132.5°	5.4	77.6	189.5	267.0	299.5
135°	5.4	72.2	178.6	252.6	283.3
137.5°	5.4	66.8	167.8	238.2	267.0
140°	5.4	61.3	153.4	223.7	250.8
142.5°	5.4	55.9	138.9	209.3	232.8
145°	7.2	52.3	124.5	193.1	216.5
147.5°	7.2	46.9	110.1	176.8	196.7
150°	7.2	43.3	99.2	160.6	178.6
152.5°	7.2	37.9	88.4	142.5	160.6
155°	7.2	34.3	75.8	122.7	142.5
157.5°	7.2	30.7	65.0	102.8	124.5
160°	7.2	28.9	55.9	84.8	106.5
162.5°	9.0	25.3	46.9	68.6	88.4
165°	9.0	21.7	39.7	54.1	72.2
167.5°	9.0	18.0	32.5	41.5	55.9
170°	9.0	14.4	25.3	28.9	43.3
172.5°	9.0	10.8	18.0	19.8	21.7
175°	9.0	9.0	10.8	10.8	5.4
177.5°	9.0	9.0	7.2	5.4	1.8
180°	5.4	5.4	5.4	5.4	5.4

(END OF REPORT)