

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: P566016

Luminaire Tested: **4SNX-104HL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566016
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-L840-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

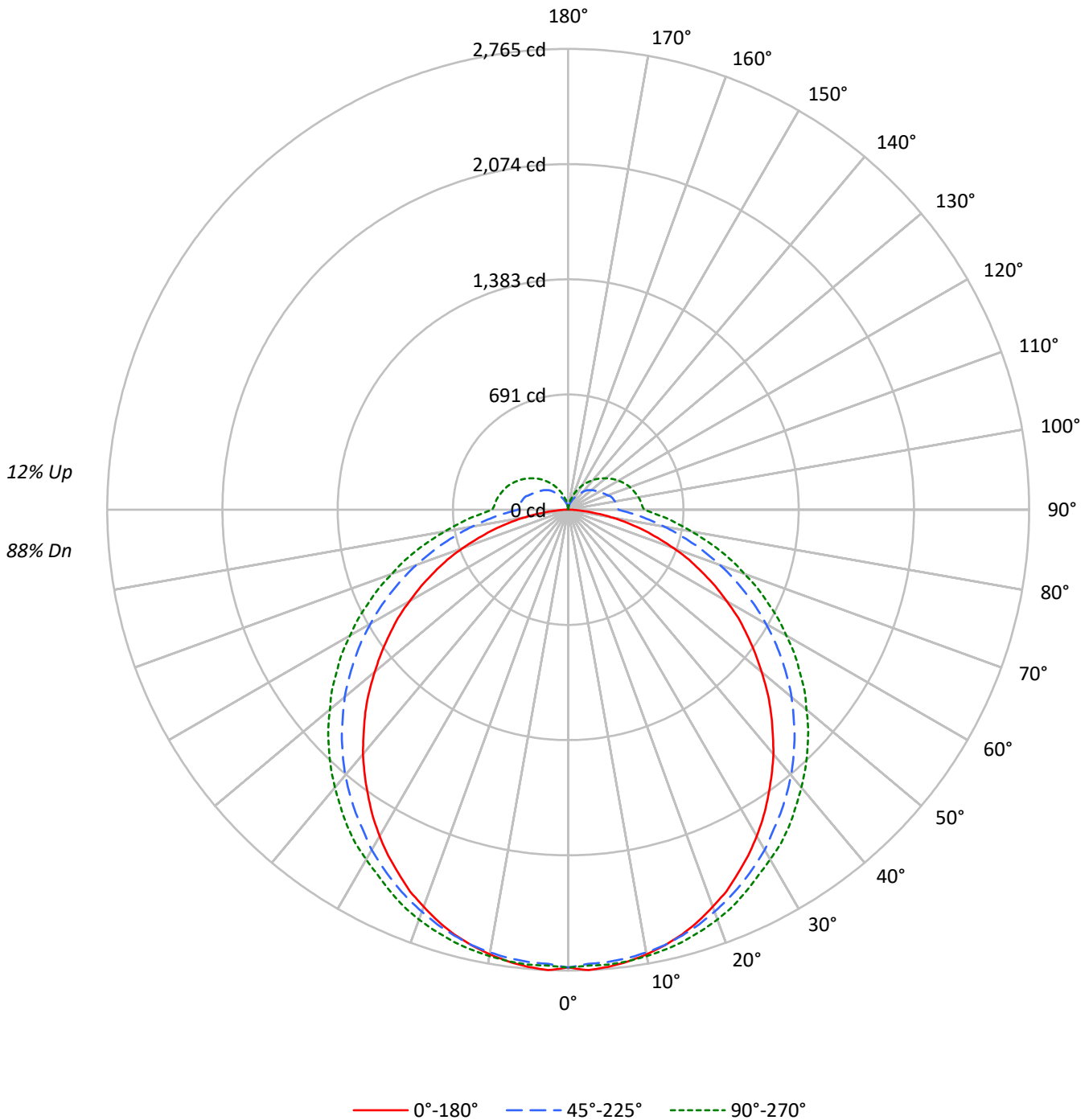
Lumens per Lamp: N/A
Luminaire Lumens: 9888.0 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

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°	29563	29563	29563
5°	29641	28202	27971
10°	29397	27090	26596
15°	29073	25986	25343
20°	28602	24870	24131
25°	28052	23786	22889
30°	27457	22724	21747
35°	26722	21613	20721
40°	26001	20572	19606
45°	25141	19475	18543
50°	24150	18342	17413
55°	23184	17099	16295
60°	22065	15791	15090
65°	20706	14368	13845
70°	18982	12829	12496
75°	16578	11143	11205
80°	13247	9456	9725
85°	8500	7836	8490



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.7	2.6
10°-20°	750.0	7.6
20°-30°	1141.0	11.5
30°-40°	1387.4	14.0
40°-50°	1467.8	14.8
50°-60°	1375.9	13.9
60°-70°	1131.9	11.4
70°-80°	783.2	7.9
80°-90°	435.5	4.4
90°-100°	286.9	2.9
100°-110°	257.3	2.6
110°-120°	212.9	2.2
120°-130°	164.6	1.7
130°-140°	116.5	1.2
140°-150°	70.3	0.7
150°-160°	33.8	0.3
160°-170°	11.1	0.1
170°-180°	1.3	0.0
0°-30°	2151.8	21.8
0°-40°	3539.1	35.8
0°-60°	6382.8	64.6
0°-90°	8733.3	88.3
90°-120°	757.1	7.7
90°-150°	1108.6	11.2
90°-180°	1155.0	11.7
0°-180°	9888.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2746	2746	2746	2746	2746	
5°	2753	2748	2724	2746	2740	261
15°	2638	2647	2645	2680	2680	744
25°	2408	2442	2470	2525	2526	1110
35°	2093	2149	2222	2293	2313	1310
45°	1720	1810	1920	2006	2030	1326
55°	1309	1426	1563	1661	1695	1172
65°	886	1013	1170	1285	1321	878
75°	461	594	769	891	940	489
85°	102	252	427	545	593	117
90°	2	142	301	415	456	7
95°	2	136	293	401	440	1
105°	2	117	274	378	412	2
115°	3	102	232	335	372	3
125°	3	86	198	286	322	3
135°	3	68	166	235	264	3
145°	3	49	115	178	200	2
155°	5	34	71	113	132	2
165°	5	22	39	52	68	1
175°	5	8	12	12	7	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2746.5	2746.5	2746.5	2746.5	2746.5
2.5°	2765.1	2756.7	2727.9	2746.5	2738.0
5°	2753.3	2748.2	2724.5	2746.5	2739.7
7.5°	2734.7	2733.0	2714.3	2739.7	2733.0
10°	2709.3	2712.6	2697.4	2724.5	2719.4
12.5°	2677.1	2682.2	2675.4	2705.9	2702.5
15°	2638.1	2646.6	2644.9	2680.5	2680.5
17.5°	2590.7	2602.6	2609.3	2650.0	2650.0
20°	2534.8	2553.5	2567.0	2611.0	2617.8
22.5°	2479.0	2501.0	2521.3	2567.0	2577.2
25°	2407.8	2441.7	2470.5	2524.7	2526.4
27.5°	2338.4	2375.7	2414.6	2467.1	2472.2
30°	2262.2	2309.6	2357.0	2407.8	2423.1
32.5°	2180.9	2233.4	2285.9	2353.7	2374.0
35°	2092.9	2148.8	2221.6	2292.7	2313.0
37.5°	2004.8	2067.5	2152.2	2225.0	2243.6
40°	1915.1	1984.5	2079.4	2153.9	2175.9
42.5°	1815.2	1899.9	2001.5	2081.0	2106.4
45°	1720.4	1810.1	1920.2	2006.5	2030.2
47.5°	1620.5	1715.3	1833.8	1925.3	1952.4
50°	1513.8	1622.2	1749.2	1840.6	1866.0
52.5°	1413.9	1524.0	1657.7	1752.5	1788.1
55°	1308.9	1425.7	1562.9	1661.1	1695.0
57.5°	1210.7	1322.5	1469.8	1568.0	1610.3
60°	1098.9	1222.5	1369.9	1476.5	1510.4
62.5°	994.0	1119.3	1271.7	1381.7	1420.7
65°	885.6	1012.6	1170.1	1285.2	1320.8
67.5°	784.0	909.3	1070.2	1183.6	1229.3
70°	672.2	804.3	968.6	1085.4	1124.3
72.5°	562.2	699.3	867.0	992.3	1036.3
75°	460.6	594.3	768.8	890.7	939.8
77.5°	362.4	497.8	673.9	799.2	841.6
80°	264.2	406.4	585.9	709.5	750.1
82.5°	174.4	323.4	501.2	624.8	668.8
85°	101.6	252.3	426.7	545.2	592.6
87.5°	44.0	191.3	357.3	474.1	513.1
90°	1.7	142.2	301.4	414.9	455.5
92.5°	1.7	138.8	294.6	406.4	445.3
95°	1.7	135.5	292.9	401.3	440.3
97.5°	1.7	133.8	289.6	397.9	435.2
100°	1.7	128.7	284.5	391.1	428.4
102.5°	1.7	121.9	279.4	384.4	419.9
105°	1.7	116.8	274.3	377.6	411.5
107.5°	1.7	111.8	265.8	369.1	403.0
110°	1.7	106.7	252.3	360.7	394.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	105.0	242.1	348.8	384.4
115°	3.4	101.6	232.0	335.3	372.5
117.5°	3.4	99.9	223.5	321.7	360.7
120°	3.4	94.8	215.0	309.9	347.1
122.5°	3.4	89.7	206.6	298.0	335.3
125°	3.4	86.4	198.1	286.2	321.7
127.5°	3.4	81.3	191.3	274.3	306.5
130°	3.4	77.9	182.9	260.8	292.9
132.5°	3.4	72.8	174.4	247.2	277.7
135°	3.4	67.7	165.9	235.4	264.2
137.5°	3.4	61.0	155.8	221.8	248.9
140°	3.4	55.9	142.2	208.3	233.7
142.5°	3.4	52.5	128.7	193.0	216.7
145°	3.4	49.1	115.1	177.8	199.8
147.5°	3.4	45.7	103.3	162.6	182.9
150°	3.4	40.6	91.4	149.0	165.9
152.5°	5.1	37.3	81.3	132.1	149.0
155°	5.1	33.9	71.1	113.4	132.1
157.5°	5.1	30.5	61.0	94.8	115.1
160°	5.1	27.1	52.5	77.9	98.2
162.5°	5.1	25.4	45.7	64.3	83.0
165°	5.1	22.0	38.9	52.5	67.7
167.5°	5.1	16.9	32.2	40.6	55.9
170°	5.1	13.5	25.4	28.8	42.3
172.5°	5.1	10.2	18.6	20.3	22.0
175°	5.1	8.5	11.9	11.9	6.8
177.5°	5.1	6.8	6.8	6.8	3.4
180°	3.4	3.4	3.4	3.4	3.4

(END OF REPORT)