

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: P566017

Luminaire Tested: **4SNX-104HL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566017
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-L850-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

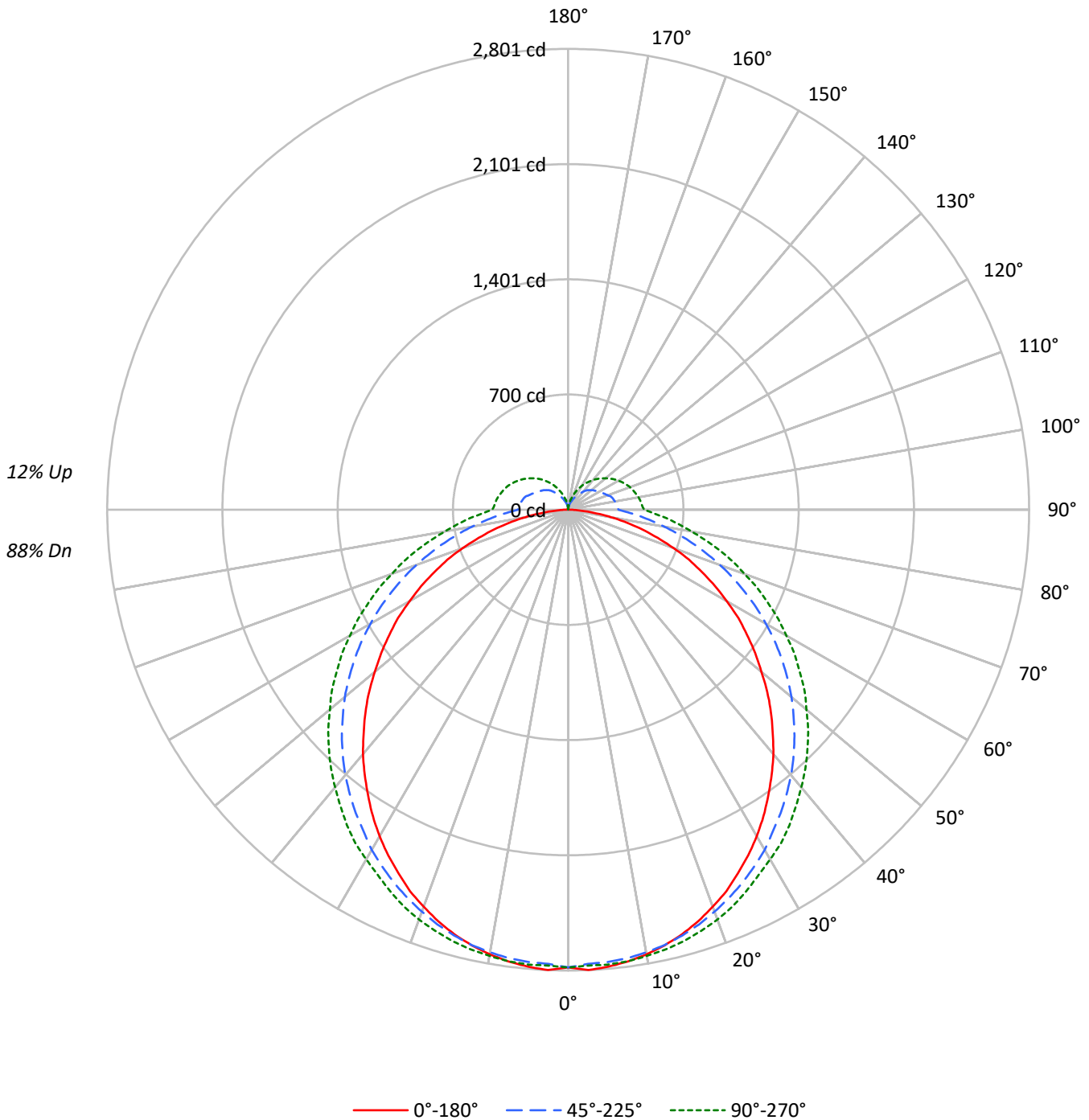
Lumens per Lamp: N/A
Luminaire Lumens: 10015.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

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°	29943	29943	29943
5°	30021	28565	28330
10°	29773	27437	26938
15°	29447	26320	25668
20°	28970	25190	24441
25°	28413	24091	23183
30°	27810	23016	22026
35°	27065	21890	20987
40°	26335	20836	19858
45°	25464	19725	18781
50°	24460	18577	17637
55°	23481	17319	16503
60°	22350	15994	15284
65°	20972	14553	14023
70°	19228	12993	12657
75°	16790	11285	11348
80°	13412	9577	9851
85°	8608	7937	8601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	2.6
10°-20°	759.7	7.6
20°-30°	1155.7	11.5
30°-40°	1405.2	14.0
40°-50°	1486.6	14.8
50°-60°	1393.5	13.9
60°-70°	1146.4	11.4
70°-80°	793.2	7.9
80°-90°	441.1	4.4
90°-100°	290.6	2.9
100°-110°	260.6	2.6
110°-120°	215.7	2.2
120°-130°	166.7	1.7
130°-140°	118.0	1.2
140°-150°	71.2	0.7
150°-160°	34.2	0.3
160°-170°	11.2	0.1
170°-180°	1.4	0.0
0°-30°	2179.4	21.8
0°-40°	3584.6	35.8
0°-60°	6464.8	64.6
0°-90°	8845.4	88.3
90°-120°	766.8	7.7
90°-150°	1122.8	11.2
90°-180°	1170.0	11.7
0°-180°	10015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2782	2782	2782	2782	2782	
5°	2789	2784	2760	2782	2775	265
15°	2672	2681	2679	2715	2715	753
25°	2439	2473	2502	2557	2559	1124
35°	2120	2176	2250	2322	2343	1327
45°	1742	1833	1945	2032	2056	1343
55°	1326	1444	1583	1682	1717	1187
65°	897	1026	1185	1302	1338	889
75°	466	602	779	902	952	495
85°	103	256	432	552	600	118
90°	2	144	305	420	461	7
95°	2	137	297	406	446	1
105°	2	118	278	382	417	2
115°	3	103	235	340	377	3
125°	3	88	201	290	326	3
135°	3	69	168	238	268	3
145°	3	50	117	180	202	2
155°	5	34	72	115	134	2
165°	5	22	39	53	69	1
175°	5	9	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°	2781.8	2781.8	2781.8	2781.8	2781.8
2.5°	2800.6	2792.1	2762.9	2781.8	2773.2
5°	2788.6	2783.5	2759.5	2781.8	2774.9
7.5°	2769.8	2768.1	2749.2	2774.9	2768.1
10°	2744.0	2747.5	2732.0	2759.5	2754.3
12.5°	2711.5	2716.6	2709.7	2740.6	2737.2
15°	2672.0	2680.6	2678.9	2714.9	2714.9
17.5°	2624.0	2636.0	2642.9	2684.0	2684.0
20°	2567.4	2586.3	2600.0	2644.6	2651.4
22.5°	2510.8	2533.1	2553.7	2600.0	2610.3
25°	2438.8	2473.1	2502.2	2557.1	2558.8
27.5°	2368.5	2406.2	2445.6	2498.8	2503.9
30°	2291.3	2339.3	2387.3	2438.8	2454.2
32.5°	2209.0	2262.1	2315.3	2383.9	2404.5
35°	2119.8	2176.4	2250.1	2322.2	2342.7
37.5°	2030.6	2094.1	2179.8	2253.6	2272.4
40°	1939.7	2010.0	2106.1	2181.5	2203.8
42.5°	1838.5	1924.3	2027.2	2107.8	2133.5
45°	1742.5	1833.4	1944.8	2032.3	2056.3
47.5°	1641.3	1737.3	1857.4	1950.0	1977.4
50°	1533.2	1643.0	1771.6	1864.2	1890.0
52.5°	1432.1	1543.5	1679.0	1775.1	1811.1
55°	1325.7	1444.1	1583.0	1682.4	1716.7
57.5°	1226.2	1339.4	1488.6	1588.1	1631.0
60°	1113.1	1238.3	1387.5	1495.5	1529.8
62.5°	1006.7	1133.6	1288.0	1399.5	1438.9
65°	897.0	1025.6	1185.1	1301.7	1337.7
67.5°	794.1	921.0	1083.9	1198.8	1245.1
70°	680.9	814.6	981.0	1099.3	1138.8
72.5°	569.4	708.3	878.1	1005.0	1049.6
75°	466.5	602.0	778.6	902.1	951.8
77.5°	367.0	504.2	682.6	809.5	852.4
80°	267.5	411.6	593.4	718.6	759.8
82.5°	176.6	327.6	507.6	632.8	677.4
85°	102.9	255.5	432.2	552.2	600.3
87.5°	44.6	193.8	361.9	480.2	519.7
90°	1.7	144.1	305.3	420.2	461.3
92.5°	1.7	140.6	298.4	411.6	451.1
95°	1.7	137.2	296.7	406.5	445.9
97.5°	1.7	135.5	293.3	403.0	440.8
100°	1.7	130.3	288.1	396.2	433.9
102.5°	1.7	123.5	283.0	389.3	425.3
105°	1.7	118.3	277.8	382.5	416.8
107.5°	1.7	113.2	269.3	373.9	408.2
110°	1.7	108.0	255.5	365.3	399.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	106.3	245.2	353.3	389.3
115°	3.4	102.9	235.0	339.6	377.3
117.5°	3.4	101.2	226.4	325.9	365.3
120°	3.4	96.0	217.8	313.9	351.6
122.5°	3.4	90.9	209.2	301.8	339.6
125°	3.4	87.5	200.7	289.8	325.9
127.5°	3.4	82.3	193.8	277.8	310.4
130°	3.4	78.9	185.2	264.1	296.7
132.5°	3.4	73.7	176.6	250.4	281.3
135°	3.4	68.6	168.1	238.4	267.5
137.5°	3.4	61.7	157.8	224.7	252.1
140°	3.4	56.6	144.1	210.9	236.7
142.5°	3.4	53.2	130.3	195.5	219.5
145°	3.4	49.7	116.6	180.1	202.4
147.5°	3.4	46.3	104.6	164.6	185.2
150°	3.4	41.2	92.6	150.9	168.1
152.5°	5.1	37.7	82.3	133.8	150.9
155°	5.1	34.3	72.0	114.9	133.8
157.5°	5.1	30.9	61.7	96.0	116.6
160°	5.1	27.4	53.2	78.9	99.5
162.5°	5.1	25.7	46.3	65.2	84.0
165°	5.1	22.3	39.4	53.2	68.6
167.5°	5.1	17.2	32.6	41.2	56.6
170°	5.1	13.7	25.7	29.2	42.9
172.5°	5.1	10.3	18.9	20.6	22.3
175°	5.1	8.6	12.0	12.0	6.9
177.5°	5.1	6.9	6.9	6.9	3.4
180°	3.4	3.4	3.4	3.4	3.4

(END OF REPORT)