

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: P565993

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565993
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-FDL-UNV-L850-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

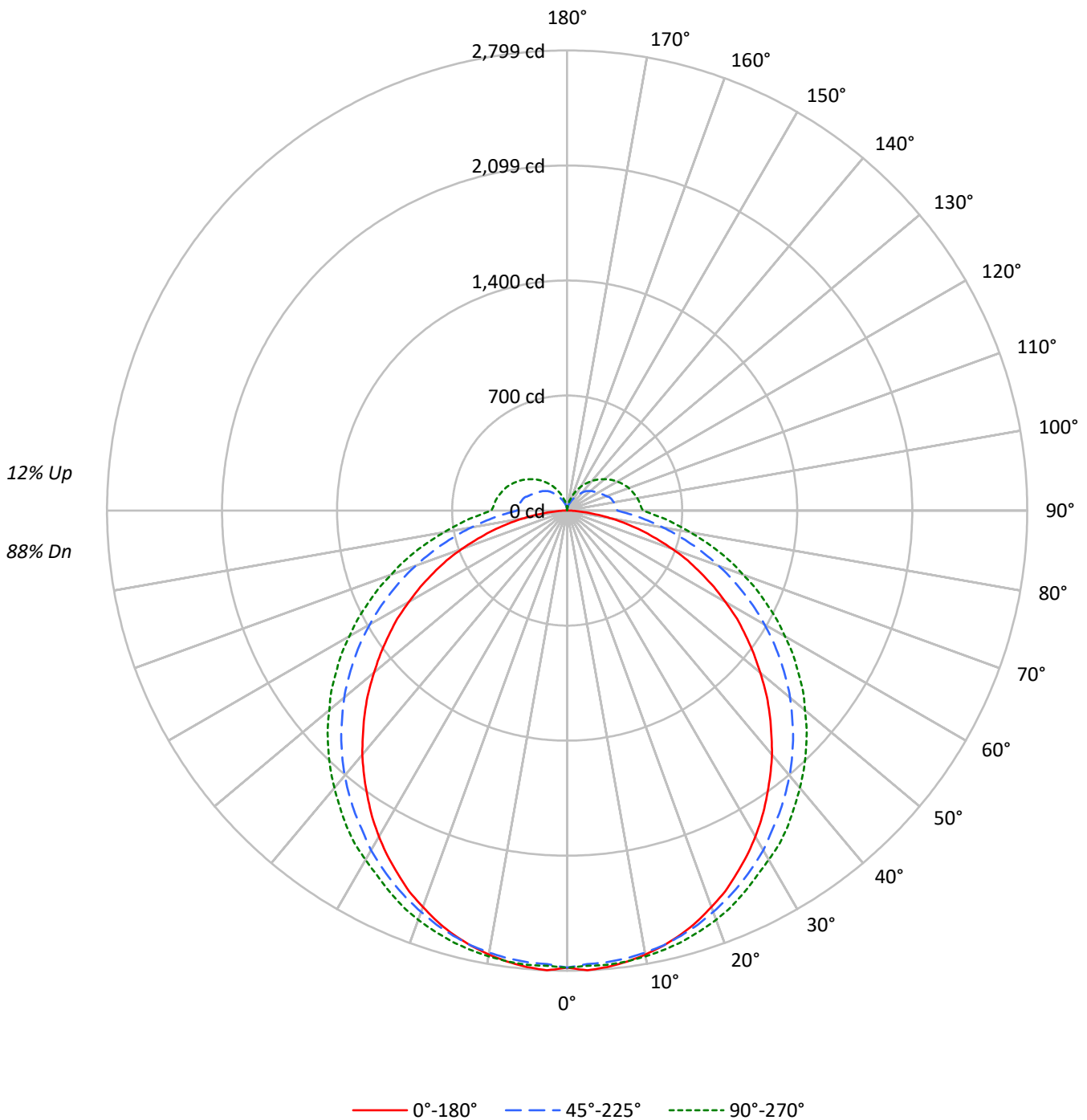
Lumens per Lamp: N/A
Luminaire Lumens: 10009.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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	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°	29925	29925	29925
5°	30086	29475	29535
10°	29919	29198	29228
15°	29675	28866	28943
20°	29281	28467	28617
25°	28807	28061	28182
30°	28291	27655	27809
35°	27636	27168	27550
40°	27002	26763	27151
45°	26235	26295	26815
50°	25345	25800	26388
55°	24499	25185	26007
60°	23523	24530	25541
65°	22332	23780	25085
70°	20821	22957	24568
75°	18663	22057	24391
80°	15651	21494	24196
85°	11345	21940	25504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.9	2.6
10°-20°	759.2	7.6
20°-30°	1155.0	11.5
30°-40°	1404.3	14.0
40°-50°	1485.7	14.8
50°-60°	1392.7	13.9
60°-70°	1145.7	11.4
70°-80°	792.8	7.9
80°-90°	440.8	4.4
90°-100°	290.4	2.9
100°-110°	260.4	2.6
110°-120°	215.6	2.2
120°-130°	166.6	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°	2178.1	21.8
0°-40°	3582.4	35.8
0°-60°	6460.9	64.6
0°-90°	8840.2	88.3
90°-120°	766.4	7.7
90°-150°	1122.1	11.2
90°-180°	1169.0	11.7
0°-180°	10009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2780	2780	2780	2780	2780	
5°	2787	2782	2758	2780	2773	265
15°	2670	2679	2677	2713	2713	753
25°	2437	2472	2501	2556	2557	1123
35°	2118	2175	2249	2321	2341	1326
45°	1741	1832	1944	2031	2055	1342
55°	1325	1443	1582	1681	1716	1186
65°	896	1025	1184	1301	1337	889
75°	466	602	778	902	951	495
85°	103	255	432	552	600	118
90°	2	144	305	420	461	7
95°	2	137	296	406	446	1
105°	2	118	278	382	416	2
115°	3	103	235	339	377	3
125°	3	87	200	290	326	3
135°	3	69	168	238	267	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°	2780.1	2780.1	2780.1	2780.1	2780.1
2.5°	2799.0	2790.4	2761.3	2780.1	2771.5
5°	2787.0	2781.8	2757.8	2780.1	2773.3
7.5°	2768.1	2766.4	2747.5	2773.3	2766.4
10°	2742.4	2745.8	2730.4	2757.8	2752.7
12.5°	2709.8	2715.0	2708.1	2739.0	2735.5
15°	2670.4	2679.0	2677.3	2713.3	2713.3
17.5°	2622.4	2634.4	2641.3	2682.4	2682.4
20°	2565.9	2584.7	2598.4	2643.0	2649.8
22.5°	2509.3	2531.6	2552.2	2598.4	2608.7
25°	2437.3	2471.6	2500.7	2555.6	2557.3
27.5°	2367.0	2404.7	2444.2	2497.3	2502.4
30°	2289.9	2337.9	2385.9	2437.3	2452.7
32.5°	2207.6	2260.8	2313.9	2382.5	2403.0
35°	2118.5	2175.1	2248.8	2320.8	2341.3
37.5°	2029.4	2092.8	2178.5	2252.2	2271.1
40°	1938.5	2008.8	2104.8	2180.2	2202.5
42.5°	1837.4	1923.1	2026.0	2106.5	2132.2
45°	1741.4	1832.3	1943.7	2031.1	2055.1
47.5°	1640.3	1736.3	1856.3	1948.8	1976.2
50°	1532.3	1642.0	1770.6	1863.1	1888.8
52.5°	1431.2	1542.6	1678.0	1774.0	1810.0
55°	1324.9	1443.2	1582.0	1681.4	1715.7
57.5°	1225.5	1338.6	1487.8	1587.2	1630.0
60°	1112.4	1237.5	1386.6	1494.6	1528.9
62.5°	1006.1	1133.0	1287.2	1398.6	1438.0
65°	896.4	1025.0	1184.4	1300.9	1336.9
67.5°	793.6	920.4	1083.3	1198.1	1244.4
70°	680.5	814.2	980.4	1098.7	1138.1
72.5°	569.0	707.9	877.6	1004.4	1049.0
75°	466.2	601.6	778.2	901.6	951.3
77.5°	366.8	503.9	682.2	809.0	851.9
80°	267.4	411.4	593.0	718.2	759.3
82.5°	176.5	327.4	507.3	632.5	677.0
85°	102.8	255.4	431.9	551.9	599.9
87.5°	44.6	193.7	361.7	479.9	519.3
90°	1.7	144.0	305.1	419.9	461.1
92.5°	1.7	140.5	298.2	411.4	450.8
95°	1.7	137.1	296.5	406.2	445.6
97.5°	1.7	135.4	293.1	402.8	440.5
100°	1.7	130.3	288.0	395.9	433.6
102.5°	1.7	123.4	282.8	389.1	425.1
105°	1.7	118.3	277.7	382.2	416.5
107.5°	1.7	113.1	269.1	373.7	407.9
110°	1.7	108.0	255.4	365.1	399.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	106.3	245.1	353.1	389.1
115°	3.4	102.8	234.8	339.4	377.1
117.5°	3.4	101.1	226.2	325.7	365.1
120°	3.4	96.0	217.7	313.7	351.4
122.5°	3.4	90.8	209.1	301.7	339.4
125°	3.4	87.4	200.5	289.7	325.7
127.5°	3.4	82.3	193.7	277.7	310.2
130°	3.4	78.8	185.1	264.0	296.5
132.5°	3.4	73.7	176.5	250.2	281.1
135°	3.4	68.6	168.0	238.2	267.4
137.5°	3.4	61.7	157.7	224.5	252.0
140°	3.4	56.6	144.0	210.8	236.5
142.5°	3.4	53.1	130.3	195.4	219.4
145°	3.4	49.7	116.6	180.0	202.3
147.5°	3.4	46.3	104.6	164.5	185.1
150°	3.4	41.1	92.6	150.8	168.0
152.5°	5.1	37.7	82.3	133.7	150.8
155°	5.1	34.3	72.0	114.8	133.7
157.5°	5.1	30.9	61.7	96.0	116.6
160°	5.1	27.4	53.1	78.8	99.4
162.5°	5.1	25.7	46.3	65.1	84.0
165°	5.1	22.3	39.4	53.1	68.6
167.5°	5.1	17.1	32.6	41.1	56.6
170°	5.1	13.7	25.7	29.1	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)