

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: P566022

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566022
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-SLW-UNV-L830-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

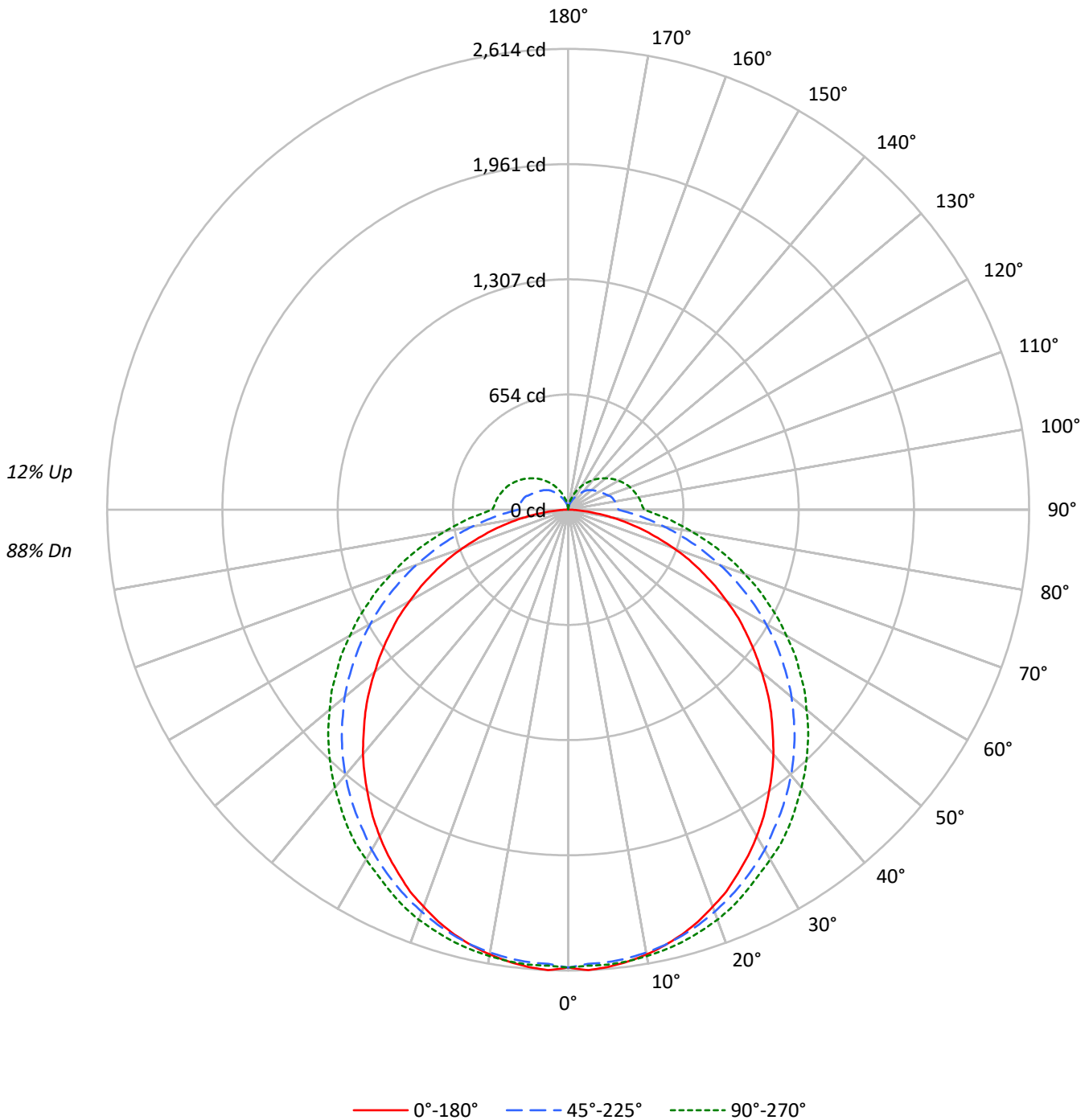
Lumens per Lamp: N/A
Luminaire Lumens: 9349.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

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°	27952	27952	27952
5°	28077	27239	27199
10°	27896	26701	26549
15°	27642	26121	25935
20°	27248	25488	25295
25°	26779	24851	24567
30°	26270	24213	23895
35°	25630	23497	23316
40°	25007	22844	22609
45°	24258	22119	21938
50°	23390	21348	21169
55°	22557	20447	20402
60°	21591	19471	19519
65°	20417	18357	18579
70°	18924	17102	17497
75°	16810	15654	16503
80°	13854	14220	15249
85°	9593	12937	14432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.5	2.6
10°-20°	709.1	7.6
20°-30°	1078.8	11.5
30°-40°	1311.7	14.0
40°-50°	1387.8	14.8
50°-60°	1300.9	13.9
60°-70°	1070.2	11.4
70°-80°	740.5	7.9
80°-90°	411.7	4.4
90°-100°	271.3	2.9
100°-110°	243.2	2.6
110°-120°	201.3	2.2
120°-130°	155.7	1.7
130°-140°	110.2	1.2
140°-150°	66.5	0.7
150°-160°	31.9	0.3
160°-170°	10.4	0.1
170°-180°	1.3	0.0
0°-30°	2034.5	21.8
0°-40°	3346.2	35.8
0°-60°	6034.8	64.6
0°-90°	8257.2	88.3
90°-120°	715.9	7.7
90°-150°	1048.1	11.2
90°-180°	1092.0	11.7
0°-180°	9349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2597	2597	2597	2597	2597	
5°	2603	2598	2576	2597	2590	247
15°	2494	2502	2501	2534	2534	703
25°	2277	2309	2336	2387	2389	1049
35°	1979	2032	2100	2168	2187	1238
45°	1627	1711	1816	1897	1920	1254
55°	1238	1348	1478	1571	1603	1108
65°	837	957	1106	1215	1249	830
75°	436	562	727	842	888	462
85°	96	238	403	516	560	111
90°	2	134	285	392	431	6
95°	2	128	277	379	416	1
105°	2	110	259	357	389	2
115°	3	96	219	317	352	3
125°	3	82	187	271	304	3
135°	3	64	157	222	250	2
145°	3	46	109	168	189	2
155°	5	32	67	107	125	2
165°	5	21	37	50	64	1
175°	5	8	11	11	6	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2596.8	2596.8	2596.8	2596.8	2596.8
2.5°	2614.4	2606.4	2579.2	2596.8	2588.8
5°	2603.2	2598.4	2576.0	2596.8	2590.4
7.5°	2585.6	2584.0	2566.4	2590.4	2584.0
10°	2561.6	2564.8	2550.4	2576.0	2571.2
12.5°	2531.2	2536.0	2529.5	2558.4	2555.2
15°	2494.3	2502.3	2500.7	2534.4	2534.4
17.5°	2449.5	2460.7	2467.1	2505.5	2505.5
20°	2396.7	2414.3	2427.1	2468.7	2475.1
22.5°	2343.8	2364.6	2383.9	2427.1	2436.7
25°	2276.6	2308.6	2335.8	2387.1	2388.7
27.5°	2211.0	2246.2	2283.0	2332.6	2337.4
30°	2138.9	2183.7	2228.6	2276.6	2291.0
32.5°	2062.1	2111.7	2161.3	2225.4	2244.6
35°	1978.8	2031.6	2100.5	2167.7	2186.9
37.5°	1895.6	1954.8	2034.8	2103.7	2121.3
40°	1810.7	1876.3	1966.0	2036.4	2057.3
42.5°	1716.3	1796.3	1892.4	1967.6	1991.6
45°	1626.6	1711.4	1815.5	1897.2	1919.6
47.5°	1532.1	1621.8	1733.9	1820.3	1845.9
50°	1431.3	1533.7	1653.8	1740.3	1764.3
52.5°	1336.8	1440.9	1567.4	1657.0	1690.6
55°	1237.6	1348.0	1477.7	1570.6	1602.6
57.5°	1144.7	1250.4	1389.7	1482.5	1522.5
60°	1039.0	1155.9	1295.2	1396.1	1428.1
62.5°	939.8	1058.2	1202.3	1306.4	1343.2
65°	837.3	957.4	1106.3	1215.1	1248.8
67.5°	741.3	859.7	1011.8	1119.1	1162.3
70°	635.6	760.5	915.8	1026.2	1063.1
72.5°	531.5	661.2	819.7	938.2	979.8
75°	435.5	561.9	726.8	842.1	888.5
77.5°	342.6	470.7	637.2	755.7	795.7
80°	249.8	384.2	553.9	670.8	709.2
82.5°	164.9	305.8	473.9	590.8	632.4
85°	96.1	238.5	403.4	515.5	560.3
87.5°	41.6	180.9	337.8	448.3	485.1
90°	1.6	134.5	285.0	392.2	430.7
92.5°	1.6	131.3	278.6	384.2	421.1
95°	1.6	128.1	277.0	379.4	416.3
97.5°	1.6	126.5	273.8	376.2	411.5
100°	1.6	121.7	269.0	369.8	405.0
102.5°	1.6	115.3	264.2	363.4	397.0
105°	1.6	110.5	259.4	357.0	389.0
107.5°	1.6	105.7	251.4	349.0	381.0
110°	1.6	100.9	238.5	341.0	373.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	99.3	228.9	329.8	363.4
115°	3.2	96.1	219.3	317.0	352.2
117.5°	3.2	94.5	211.3	304.2	341.0
120°	3.2	89.7	203.3	293.0	328.2
122.5°	3.2	84.9	195.3	281.8	317.0
125°	3.2	81.7	187.3	270.6	304.2
127.5°	3.2	76.8	180.9	259.4	289.8
130°	3.2	73.6	172.9	246.6	277.0
132.5°	3.2	68.8	164.9	233.7	262.6
135°	3.2	64.0	156.9	222.5	249.8
137.5°	3.2	57.6	147.3	209.7	235.3
140°	3.2	52.8	134.5	196.9	220.9
142.5°	3.2	49.6	121.7	182.5	204.9
145°	3.2	46.4	108.9	168.1	188.9
147.5°	3.2	43.2	97.7	153.7	172.9
150°	3.2	38.4	86.5	140.9	156.9
152.5°	4.8	35.2	76.8	124.9	140.9
155°	4.8	32.0	67.2	107.3	124.9
157.5°	4.8	28.8	57.6	89.7	108.9
160°	4.8	25.6	49.6	73.6	92.9
162.5°	4.8	24.0	43.2	60.8	78.4
165°	4.8	20.8	36.8	49.6	64.0
167.5°	4.8	16.0	30.4	38.4	52.8
170°	4.8	12.8	24.0	27.2	40.0
172.5°	4.8	9.6	17.6	19.2	20.8
175°	4.8	8.0	11.2	11.2	6.4
177.5°	4.8	6.4	6.4	6.4	3.2
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)