

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: P566020

Luminaire Tested: **4SNX-104HL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566020
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-L940-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

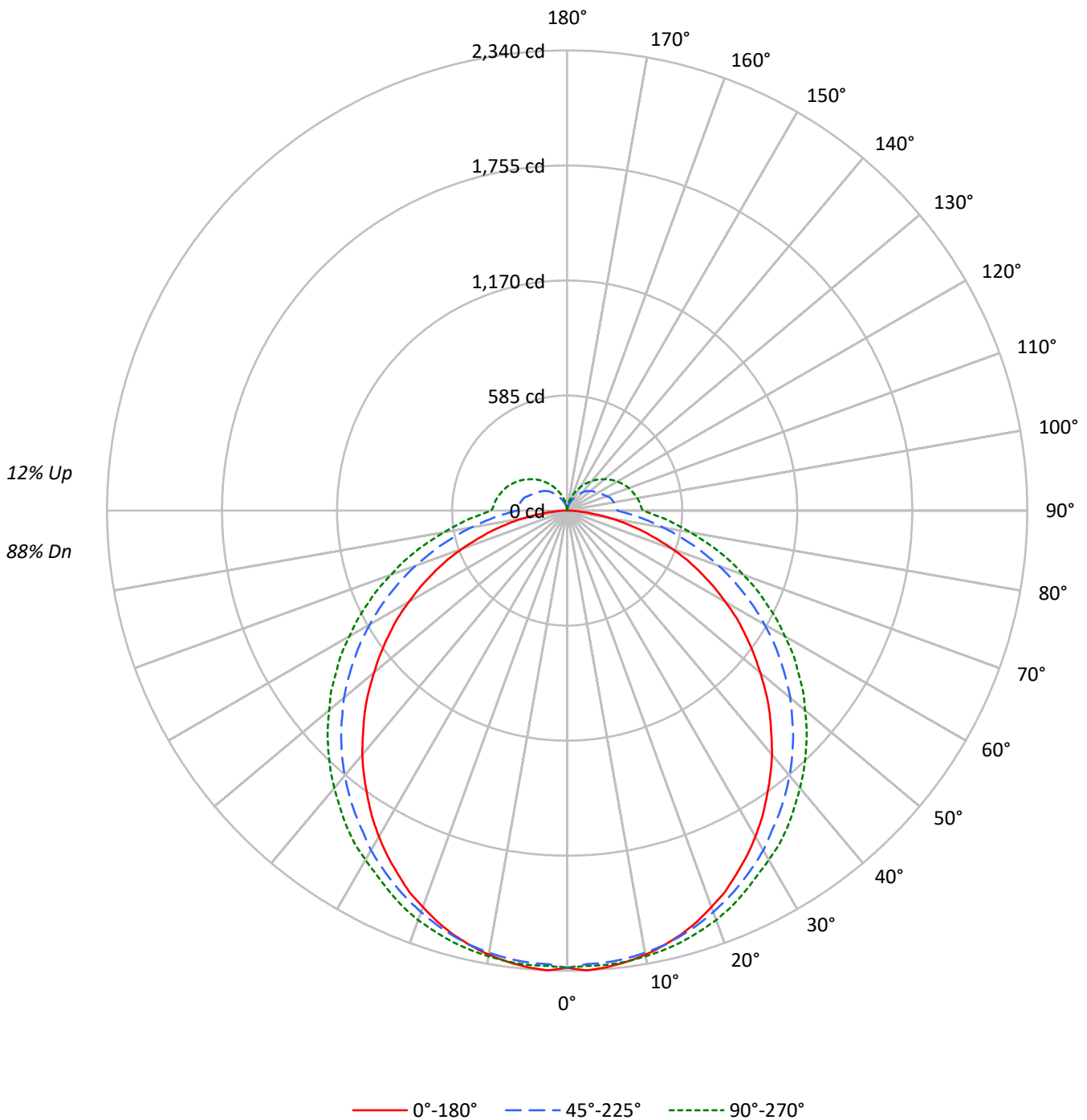
Lumens per Lamp: N/A
Luminaire Lumens: 8369.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

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	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°	25022	25022	25022
5°	25088	23870	23675
10°	24881	22928	22511
15°	24608	21994	21450
20°	24208	21050	20424
25°	23743	20132	19373
30°	23239	19234	18406
35°	22617	18292	17538
40°	22006	17411	16594
45°	21279	16483	15695
50°	20440	15525	14737
55°	19622	14472	13791
60°	18675	13365	12772
65°	17524	12161	11719
70°	16068	10858	10576
75°	14030	9431	9484
80°	11211	8004	8232
85°	7195	6633	7186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.7	2.6
10°-20°	634.8	7.6
20°-30°	965.7	11.5
30°-40°	1174.2	14.0
40°-50°	1242.3	14.8
50°-60°	1164.5	13.9
60°-70°	958.0	11.4
70°-80°	662.9	7.9
80°-90°	368.6	4.4
90°-100°	242.8	2.9
100°-110°	217.7	2.6
110°-120°	180.2	2.2
120°-130°	139.3	1.7
130°-140°	98.6	1.2
140°-150°	59.5	0.7
150°-160°	28.6	0.3
160°-170°	9.4	0.1
170°-180°	1.1	0.0
0°-30°	1821.2	21.8
0°-40°	2995.5	35.8
0°-60°	5402.2	64.6
0°-90°	7391.7	88.3
90°-120°	640.8	7.7
90°-150°	938.3	11.2
90°-180°	977.0	11.7
0°-180°	8369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2325	2325	2325	2325	2325	
5°	2330	2326	2306	2325	2319	221
15°	2233	2240	2239	2269	2269	629
25°	2038	2067	2091	2137	2138	939
35°	1771	1819	1880	1940	1958	1109
45°	1456	1532	1625	1698	1718	1122
55°	1108	1207	1323	1406	1435	992
65°	750	857	990	1088	1118	743
75°	390	503	651	754	795	414
85°	86	214	361	462	502	99
90°	1	120	255	351	386	6
95°	1	115	248	340	373	1
105°	1	99	232	320	348	1
115°	3	86	196	284	315	2
125°	3	73	168	242	272	3
135°	3	57	140	199	224	2
145°	3	42	98	150	169	2
155°	4	29	60	96	112	2
165°	4	19	33	44	57	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2324.6	2324.6	2324.6	2324.6	2324.6
2.5°	2340.3	2333.2	2308.8	2324.6	2317.4
5°	2330.3	2326.0	2306.0	2324.6	2318.9
7.5°	2314.6	2313.1	2297.4	2318.9	2313.1
10°	2293.1	2295.9	2283.0	2306.0	2301.7
12.5°	2265.8	2270.1	2264.4	2290.2	2287.3
15°	2232.9	2240.0	2238.6	2268.7	2268.7
17.5°	2192.7	2202.8	2208.5	2242.9	2242.9
20°	2145.4	2161.2	2172.7	2209.9	2215.7
22.5°	2098.1	2116.8	2134.0	2172.7	2181.3
25°	2038.0	2066.6	2091.0	2136.8	2138.3
27.5°	1979.2	2010.7	2043.7	2088.1	2092.4
30°	1914.7	1954.8	1995.0	2038.0	2050.9
32.5°	1845.9	1890.3	1934.8	1992.1	2009.3
35°	1771.4	1818.7	1880.3	1940.5	1957.7
37.5°	1696.9	1749.9	1821.5	1883.2	1898.9
40°	1620.9	1679.7	1759.9	1823.0	1841.6
42.5°	1536.3	1608.0	1694.0	1761.4	1782.9
45°	1456.1	1532.0	1625.2	1698.3	1718.4
47.5°	1371.5	1451.8	1552.1	1629.5	1652.4
50°	1281.2	1373.0	1480.5	1557.8	1579.3
52.5°	1196.7	1289.8	1403.1	1483.3	1513.4
55°	1107.8	1206.7	1322.8	1405.9	1434.6
57.5°	1024.7	1119.3	1244.0	1327.1	1362.9
60°	930.1	1034.7	1159.4	1249.7	1278.4
62.5°	841.3	947.3	1076.3	1169.5	1202.4
65°	749.5	857.0	990.3	1087.8	1117.9
67.5°	663.6	769.6	905.8	1001.8	1040.5
70°	569.0	680.8	819.8	918.7	951.6
72.5°	475.8	591.9	733.8	839.8	877.1
75°	389.8	503.0	650.7	753.8	795.4
77.5°	306.7	421.3	570.4	676.5	712.3
80°	223.6	344.0	495.9	600.5	634.9
82.5°	147.6	273.7	424.2	528.8	566.1
85°	86.0	213.5	361.2	461.5	501.6
87.5°	37.3	161.9	302.4	401.3	434.2
90°	1.4	120.4	255.1	351.1	385.5
92.5°	1.4	117.5	249.4	344.0	376.9
95°	1.4	114.7	247.9	339.7	372.6
97.5°	1.4	113.2	245.1	336.8	368.3
100°	1.4	108.9	240.8	331.1	362.6
102.5°	1.4	103.2	236.5	325.3	355.4
105°	1.4	98.9	232.2	319.6	348.3
107.5°	1.4	94.6	225.0	312.4	341.1
110°	1.4	90.3	213.5	305.3	333.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	88.9	204.9	295.2	325.3
115°	2.9	86.0	196.3	283.8	315.3
117.5°	2.9	84.6	189.2	272.3	305.3
120°	2.9	80.3	182.0	262.3	293.8
122.5°	2.9	76.0	174.8	252.2	283.8
125°	2.9	73.1	167.7	242.2	272.3
127.5°	2.9	68.8	161.9	232.2	259.4
130°	2.9	65.9	154.8	220.7	247.9
132.5°	2.9	61.6	147.6	209.2	235.0
135°	2.9	57.3	140.4	199.2	223.6
137.5°	2.9	51.6	131.9	187.7	210.7
140°	2.9	47.3	120.4	176.3	197.8
142.5°	2.9	44.4	108.9	163.4	183.4
145°	2.9	41.6	97.5	150.5	169.1
147.5°	2.9	38.7	87.4	137.6	154.8
150°	2.9	34.4	77.4	126.1	140.4
152.5°	4.3	31.5	68.8	111.8	126.1
155°	4.3	28.7	60.2	96.0	111.8
157.5°	4.3	25.8	51.6	80.3	97.5
160°	4.3	22.9	44.4	65.9	83.1
162.5°	4.3	21.5	38.7	54.5	70.2
165°	4.3	18.6	33.0	44.4	57.3
167.5°	4.3	14.3	27.2	34.4	47.3
170°	4.3	11.5	21.5	24.4	35.8
172.5°	4.3	8.6	15.8	17.2	18.6
175°	4.3	7.2	10.0	10.0	5.7
177.5°	4.3	5.7	5.7	5.7	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)