

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: P566019

Luminaire Tested: **4SNX-104HL-LW-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566019
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-L935-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

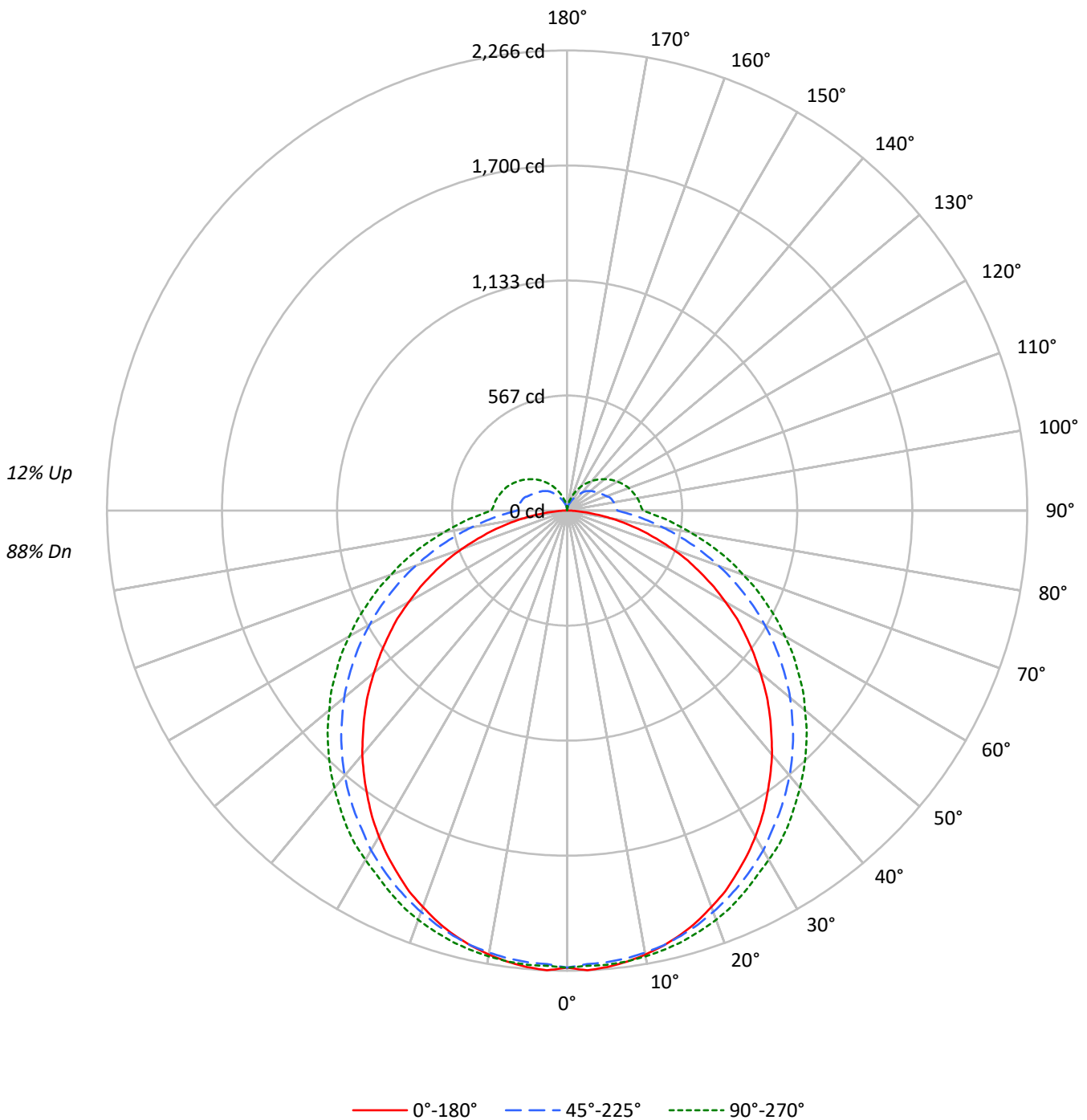
Lumens per Lamp: N/A
Luminaire Lumens: 8103.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

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°	24226	24226	24226
5°	24291	23112	22921
10°	24090	22200	21795
15°	23825	21295	20768
20°	23438	20381	19774
25°	22988	19492	18757
30°	22500	18623	17821
35°	21898	17711	16981
40°	21307	16858	16067
45°	20602	15959	15195
50°	19790	15031	14269
55°	18998	14012	13353
60°	18083	12941	12366
65°	16967	11774	11345
70°	15557	10512	10241
75°	13583	9131	9182
80°	10855	7749	7970
85°	6969	6422	6959



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	2.6
10°-20°	614.6	7.6
20°-30°	935.0	11.5
30°-40°	1136.9	14.0
40°-50°	1202.8	14.8
50°-60°	1127.5	13.9
60°-70°	927.5	11.4
70°-80°	641.8	7.9
80°-90°	356.9	4.4
90°-100°	235.1	2.9
100°-110°	210.8	2.6
110°-120°	174.5	2.2
120°-130°	134.9	1.7
130°-140°	95.5	1.2
140°-150°	57.6	0.7
150°-160°	27.7	0.3
160°-170°	9.1	0.1
170°-180°	1.1	0.0
0°-30°	1763.3	21.8
0°-40°	2900.2	35.8
0°-60°	5230.5	64.6
0°-90°	7156.7	88.3
90°-120°	620.4	7.7
90°-150°	908.5	11.2
90°-180°	946.0	11.7
0°-180°	8103.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2251	2251	2251	2251	2251	
5°	2256	2252	2233	2251	2245	214
15°	2162	2169	2167	2197	2197	609
25°	1973	2001	2024	2069	2070	910
35°	1715	1761	1820	1879	1896	1073
45°	1410	1483	1574	1644	1664	1087
55°	1073	1168	1281	1361	1389	960
65°	726	830	959	1053	1082	720
75°	377	487	630	730	770	400
85°	83	207	350	447	486	96
90°	1	117	247	340	373	6
95°	1	111	240	329	361	1
105°	1	96	225	309	337	1
115°	3	83	190	275	305	2
125°	3	71	162	234	264	3
135°	3	56	136	193	216	2
145°	3	40	94	146	164	2
155°	4	28	58	93	108	2
165°	4	18	32	43	56	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°	2250.7	2250.7	2250.7	2250.7	2250.7
2.5°	2266.0	2259.0	2235.4	2250.7	2243.8
5°	2256.3	2252.1	2232.7	2250.7	2245.1
7.5°	2241.0	2239.6	2224.3	2245.1	2239.6
10°	2220.2	2222.9	2210.5	2232.7	2228.5
12.5°	2193.8	2198.0	2192.4	2217.4	2214.6
15°	2161.9	2168.8	2167.4	2196.6	2196.6
17.5°	2123.0	2132.8	2138.3	2171.6	2171.6
20°	2077.2	2092.5	2103.6	2139.7	2145.2
22.5°	2031.5	2049.5	2066.1	2103.6	2111.9
25°	1973.2	2000.9	2024.5	2068.9	2070.3
27.5°	1916.3	1946.8	1978.7	2021.7	2025.9
30°	1853.8	1892.7	1931.6	1973.2	1985.7
32.5°	1787.2	1830.3	1873.3	1928.8	1945.4
35°	1715.1	1760.9	1820.5	1878.8	1895.5
37.5°	1642.9	1694.3	1763.6	1823.3	1838.6
40°	1569.4	1626.3	1704.0	1765.0	1783.1
42.5°	1487.5	1556.9	1640.2	1705.4	1726.2
45°	1409.8	1483.4	1573.5	1644.3	1663.7
47.5°	1327.9	1405.6	1502.8	1577.7	1599.9
50°	1240.5	1329.3	1433.4	1508.3	1529.1
52.5°	1158.7	1248.8	1358.5	1436.2	1465.3
55°	1072.6	1168.4	1280.8	1361.2	1389.0
57.5°	992.1	1083.7	1204.4	1284.9	1319.6
60°	900.6	1001.9	1122.6	1210.0	1237.7
62.5°	814.5	917.2	1042.1	1132.3	1164.2
65°	725.7	829.8	958.8	1053.2	1082.3
67.5°	642.5	745.1	877.0	969.9	1007.4
70°	550.9	659.1	793.7	889.5	921.4
72.5°	460.7	573.1	710.5	813.1	849.2
75°	377.4	487.1	630.0	729.9	770.1
77.5°	296.9	408.0	552.3	655.0	689.6
80°	216.5	333.0	480.1	581.4	614.7
82.5°	142.9	265.0	410.7	512.0	548.1
85°	83.3	206.8	349.7	446.8	485.7
87.5°	36.1	156.8	292.8	388.5	420.4
90°	1.4	116.6	247.0	340.0	373.3
92.5°	1.4	113.8	241.4	333.0	364.9
95°	1.4	111.0	240.1	328.9	360.8
97.5°	1.4	109.6	237.3	326.1	356.6
100°	1.4	105.5	233.1	320.5	351.1
102.5°	1.4	99.9	229.0	315.0	344.1
105°	1.4	95.7	224.8	309.4	337.2
107.5°	1.4	91.6	217.9	302.5	330.3
110°	1.4	87.4	206.8	295.6	323.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	86.0	198.4	285.8	315.0
115°	2.8	83.3	190.1	274.7	305.3
117.5°	2.8	81.9	183.2	263.6	295.6
120°	2.8	77.7	176.2	253.9	284.5
122.5°	2.8	73.5	169.3	244.2	274.7
125°	2.8	70.8	162.4	234.5	263.6
127.5°	2.8	66.6	156.8	224.8	251.2
130°	2.8	63.8	149.9	213.7	240.1
132.5°	2.8	59.7	142.9	202.6	227.6
135°	2.8	55.5	136.0	192.9	216.5
137.5°	2.8	50.0	127.7	181.8	204.0
140°	2.8	45.8	116.6	170.7	191.5
142.5°	2.8	43.0	105.5	158.2	177.6
145°	2.8	40.2	94.4	145.7	163.7
147.5°	2.8	37.5	84.6	133.2	149.9
150°	2.8	33.3	74.9	122.1	136.0
152.5°	4.2	30.5	66.6	108.2	122.1
155°	4.2	27.8	58.3	93.0	108.2
157.5°	4.2	25.0	50.0	77.7	94.4
160°	4.2	22.2	43.0	63.8	80.5
162.5°	4.2	20.8	37.5	52.7	68.0
165°	4.2	18.0	31.9	43.0	55.5
167.5°	4.2	13.9	26.4	33.3	45.8
170°	4.2	11.1	20.8	23.6	34.7
172.5°	4.2	8.3	15.3	16.7	18.0
175°	4.2	6.9	9.7	9.7	5.6
177.5°	4.2	5.6	5.6	5.6	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)