

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: P565994

Luminaire Tested: **4SNX-104HL-FDL-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565994
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-L930-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

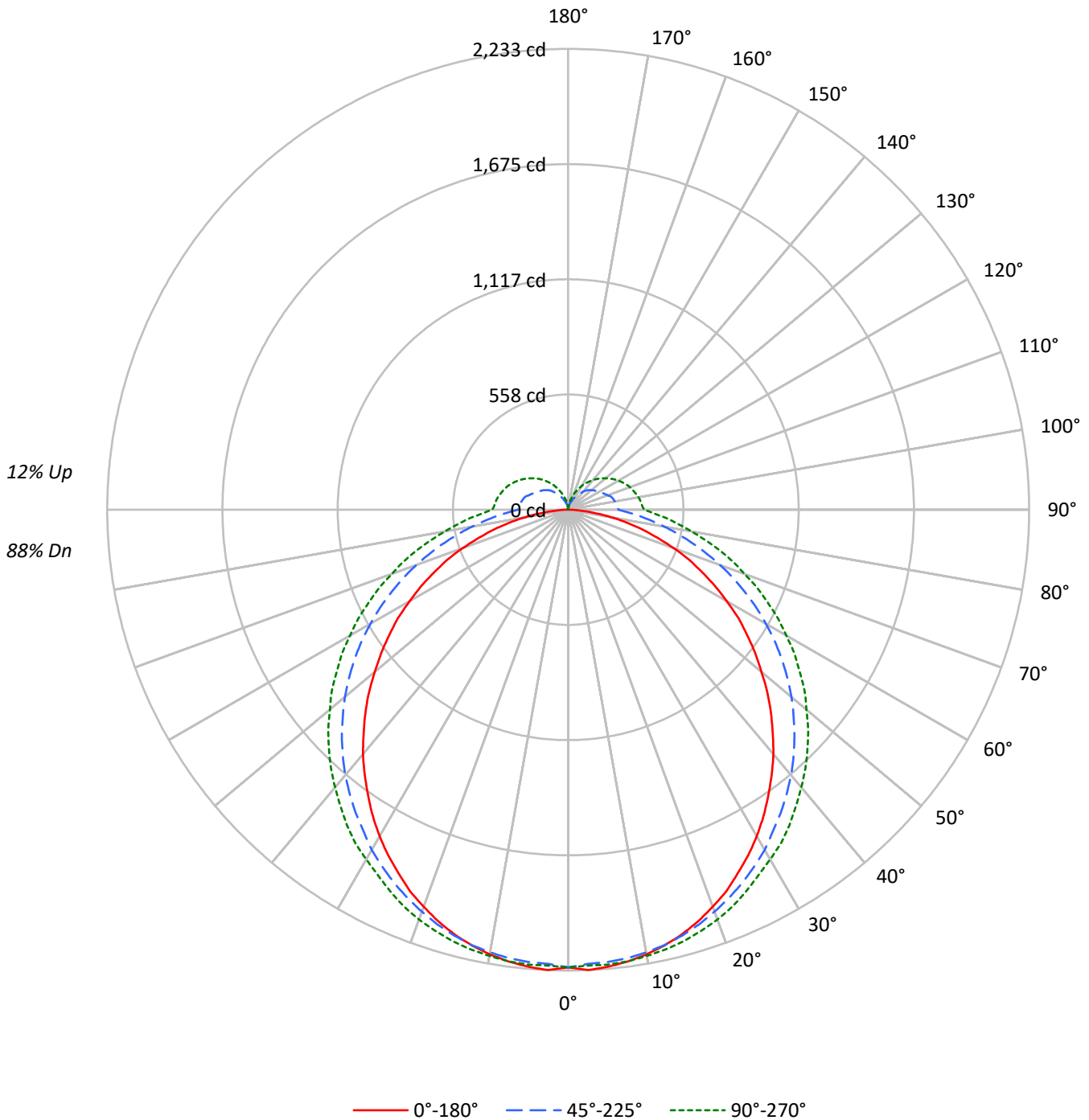
Lumens per Lamp: N/A
Luminaire Lumens: 7984.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 75.5
Input Voltage (V): NR
Input Current (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°	23870	23870	23870
5°	23999	23512	23559
10°	23867	23291	23315
15°	23671	23026	23087
20°	23356	22707	22827
25°	22979	22385	22480
30°	22567	22060	22183
35°	22045	21671	21976
40°	21539	21349	21658
45°	20928	20975	21389
50°	20217	20579	21050
55°	19543	20090	20746
60°	18763	19568	20374
65°	17815	18970	20009
70°	16607	18313	19596
75°	14888	17593	19456
80°	12484	17148	19301
85°	9050	17500	20343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	2.6
10°-20°	605.6	7.6
20°-30°	921.3	11.5
30°-40°	1120.2	14.0
40°-50°	1185.1	14.8
50°-60°	1110.9	13.9
60°-70°	913.9	11.4
70°-80°	632.4	7.9
80°-90°	351.6	4.4
90°-100°	231.7	2.9
100°-110°	207.7	2.6
110°-120°	171.9	2.2
120°-130°	132.9	1.7
130°-140°	94.1	1.2
140°-150°	56.8	0.7
150°-160°	27.3	0.3
160°-170°	8.9	0.1
170°-180°	1.1	0.0
0°-30°	1737.4	21.8
0°-40°	2857.6	35.8
0°-60°	5153.7	64.6
0°-90°	7051.6	88.3
90°-120°	611.3	7.7
90°-150°	895.1	11.2
90°-180°	932.0	11.7
0°-180°	7984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2218	2218	2218	2218	2218	
5°	2223	2219	2200	2218	2212	211
15°	2130	2137	2136	2164	2164	600
25°	1944	1972	1995	2038	2040	896
35°	1690	1735	1794	1851	1868	1058
45°	1389	1462	1550	1620	1639	1071
55°	1057	1151	1262	1341	1369	946
65°	715	818	945	1038	1066	709
75°	372	480	621	719	759	395
85°	82	204	344	440	478	94
90°	1	115	243	335	368	5
95°	1	109	236	324	356	1
105°	1	94	222	305	332	1
115°	3	82	187	271	301	2
125°	3	70	160	231	260	2
135°	3	55	134	190	213	2
145°	3	40	93	144	161	2
155°	4	27	57	92	107	2
165°	4	18	31	42	55	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°	2217.6	2217.6	2217.6	2217.6	2217.6
2.5°	2232.7	2225.8	2202.6	2217.6	2210.8
5°	2223.1	2219.0	2199.9	2217.6	2212.2
7.5°	2208.1	2206.7	2191.7	2212.2	2206.7
10°	2187.6	2190.3	2178.0	2199.9	2195.8
12.5°	2161.6	2165.7	2160.2	2184.8	2182.1
15°	2130.1	2137.0	2135.6	2164.3	2164.3
17.5°	2091.9	2101.4	2106.9	2139.7	2139.7
20°	2046.7	2061.8	2072.7	2108.3	2113.7
22.5°	2001.6	2019.4	2035.8	2072.7	2080.9
25°	1944.2	1971.5	1994.8	2038.5	2039.9
27.5°	1888.1	1918.2	1949.7	1992.1	1996.2
30°	1826.6	1864.9	1903.2	1944.2	1956.5
32.5°	1761.0	1803.4	1845.8	1900.4	1916.9
35°	1689.9	1735.0	1793.8	1851.2	1867.6
37.5°	1618.8	1669.4	1737.7	1796.5	1811.6
40°	1546.3	1602.4	1679.0	1739.1	1756.9
42.5°	1465.7	1534.0	1616.1	1680.3	1700.8
45°	1389.1	1461.6	1550.4	1620.2	1639.3
47.5°	1308.4	1385.0	1480.7	1554.5	1576.4
50°	1222.3	1309.8	1412.3	1486.2	1506.7
52.5°	1141.6	1230.5	1338.5	1415.1	1443.8
55°	1056.9	1151.2	1262.0	1341.3	1368.6
57.5°	977.6	1067.8	1186.8	1266.1	1300.2
60°	887.3	987.1	1106.1	1192.2	1219.6
62.5°	802.6	903.7	1026.8	1115.7	1147.1
65°	715.1	817.6	944.8	1037.7	1066.4
67.5°	633.0	734.2	864.1	955.7	992.6
70°	542.8	649.4	782.1	876.4	907.8
72.5°	453.9	564.7	700.0	801.2	836.7
75°	371.9	479.9	620.7	719.2	758.8
77.5°	292.6	402.0	544.2	645.3	679.5
80°	213.3	328.1	473.1	572.9	605.7
82.5°	140.8	261.1	404.7	504.5	540.1
85°	82.0	203.7	344.5	440.2	478.5
87.5°	35.5	154.5	288.5	382.8	414.3
90°	1.4	114.8	243.4	335.0	367.8
92.5°	1.4	112.1	237.9	328.1	359.6
95°	1.4	109.4	236.5	324.0	355.5
97.5°	1.4	108.0	233.8	321.3	351.4
100°	1.4	103.9	229.7	315.8	345.9
102.5°	1.4	98.4	225.6	310.4	339.1
105°	1.4	94.3	221.5	304.9	332.2
107.5°	1.4	90.2	214.7	298.1	325.4
110°	1.4	86.1	203.7	291.2	318.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	84.8	195.5	281.6	310.4
115°	2.7	82.0	187.3	270.7	300.8
117.5°	2.7	80.7	180.5	259.8	291.2
120°	2.7	76.6	173.6	250.2	280.3
122.5°	2.7	72.5	166.8	240.6	270.7
125°	2.7	69.7	160.0	231.1	259.8
127.5°	2.7	65.6	154.5	221.5	247.5
130°	2.7	62.9	147.7	210.6	236.5
132.5°	2.7	58.8	140.8	199.6	224.2
135°	2.7	54.7	134.0	190.0	213.3
137.5°	2.7	49.2	125.8	179.1	201.0
140°	2.7	45.1	114.8	168.2	188.7
142.5°	2.7	42.4	103.9	155.9	175.0
145°	2.7	39.6	93.0	143.6	161.3
147.5°	2.7	36.9	83.4	131.3	147.7
150°	2.7	32.8	73.8	120.3	134.0
152.5°	4.1	30.1	65.6	106.6	120.3
155°	4.1	27.3	57.4	91.6	106.6
157.5°	4.1	24.6	49.2	76.6	93.0
160°	4.1	21.9	42.4	62.9	79.3
162.5°	4.1	20.5	36.9	52.0	67.0
165°	4.1	17.8	31.4	42.4	54.7
167.5°	4.1	13.7	26.0	32.8	45.1
170°	4.1	10.9	20.5	23.2	34.2
172.5°	4.1	8.2	15.0	16.4	17.8
175°	4.1	6.8	9.6	9.6	5.5
177.5°	4.1	5.5	5.5	5.5	2.7
180°	2.7	2.7	2.7	2.7	2.7

(END OF REPORT)