

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: P566932

Luminaire Tested: **4SNX-87HL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566932
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-87HL-LW-UNV-L940-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

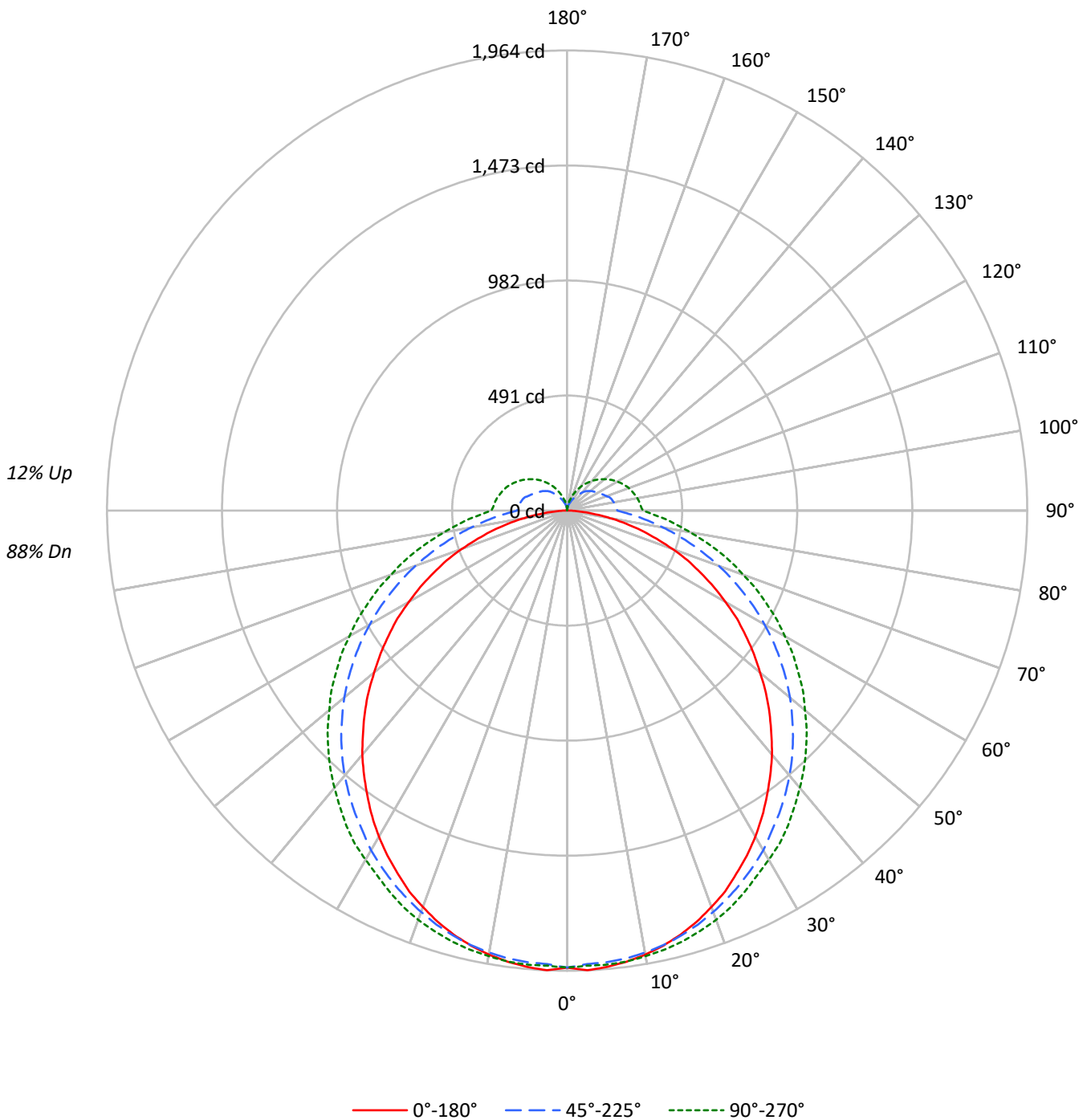
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7022.0 lumens
Efficiency: N/A
Efficacy: 112.9 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): 62.2
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°	20994	20994	20994
5°	21050	20028	19864
10°	20876	19238	18888
15°	20647	18454	17997
20°	20312	17662	17137
25°	19921	16891	16255
30°	19498	16138	15444
35°	18977	15348	14715
40°	18464	14609	13923
45°	17853	13830	13169
50°	17150	13026	12365
55°	16464	12143	11572
60°	15669	11214	10716
65°	14704	10203	9832
70°	13481	9110	8875
75°	11773	7912	7957
80°	9406	6716	6907
85°	6032	5564	6030



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.2	2.6
10°-20°	532.6	7.6
20°-30°	810.3	11.5
30°-40°	985.2	14.0
40°-50°	1042.4	14.8
50°-60°	977.1	13.9
60°-70°	803.8	11.4
70°-80°	556.2	7.9
80°-90°	309.3	4.4
90°-100°	203.7	2.9
100°-110°	182.7	2.6
110°-120°	151.2	2.2
120°-130°	116.9	1.7
130°-140°	82.8	1.2
140°-150°	49.9	0.7
150°-160°	24.0	0.3
160°-170°	7.8	0.1
170°-180°	1.0	0.0
0°-30°	1528.1	21.8
0°-40°	2513.3	35.8
0°-60°	4532.7	64.6
0°-90°	6202.0	88.3
90°-120°	537.7	7.7
90°-150°	787.2	11.2
90°-180°	820.0	11.7
0°-180°	7022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1950	1950	1950	1950	1950	
5°	1955	1952	1935	1950	1946	186
15°	1874	1880	1878	1904	1904	528
25°	1710	1734	1754	1793	1794	788
35°	1486	1526	1578	1628	1643	930
45°	1222	1286	1364	1425	1442	942
55°	930	1012	1110	1180	1204	832
65°	629	719	831	913	938	624
75°	327	422	546	632	667	347
85°	72	179	303	387	421	83
90°	1	101	214	295	324	5
95°	1	96	208	285	313	1
105°	1	83	195	268	292	1
115°	2	72	165	238	264	2
125°	2	61	141	203	228	2
135°	2	48	118	167	188	2
145°	2	35	82	126	142	2
155°	4	24	50	81	94	2
165°	4	16	28	37	48	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



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CATALOG NUMBER: 4SNX-87HL-LW-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.4	1950.4	1950.4	1950.4	1950.4
2.5°	1963.7	1957.7	1937.2	1950.4	1944.4
5°	1955.3	1951.6	1934.8	1950.4	1945.6
7.5°	1942.0	1940.8	1927.6	1945.6	1940.8
10°	1924.0	1926.4	1915.6	1934.8	1931.2
12.5°	1901.1	1904.7	1899.9	1921.6	1919.2
15°	1873.5	1879.5	1878.3	1903.5	1903.5
17.5°	1839.8	1848.2	1853.0	1881.9	1881.9
20°	1800.1	1813.4	1823.0	1854.2	1859.1
22.5°	1760.4	1776.1	1790.5	1823.0	1830.2
25°	1709.9	1734.0	1754.4	1792.9	1794.1
27.5°	1660.6	1687.1	1714.8	1752.0	1755.6
30°	1606.5	1640.2	1673.9	1709.9	1720.8
32.5°	1548.8	1586.1	1623.4	1671.5	1685.9
35°	1486.3	1526.0	1577.7	1628.2	1642.6
37.5°	1423.7	1468.2	1528.4	1580.1	1593.3
40°	1360.0	1409.3	1476.7	1529.6	1545.2
42.5°	1289.1	1349.2	1421.3	1477.9	1495.9
45°	1221.7	1285.5	1363.6	1425.0	1441.8
47.5°	1150.8	1218.1	1302.3	1367.2	1386.5
50°	1075.0	1152.0	1242.2	1307.1	1325.1
52.5°	1004.1	1082.2	1177.2	1244.6	1269.8
55°	929.5	1012.5	1109.9	1179.6	1203.7
57.5°	859.8	939.1	1043.8	1113.5	1143.6
60°	780.4	868.2	972.8	1048.6	1072.6
62.5°	705.9	794.8	903.1	981.2	1008.9
65°	628.9	719.1	830.9	912.7	937.9
67.5°	556.8	645.7	760.0	840.5	873.0
70°	477.4	571.2	687.8	770.8	798.5
72.5°	399.2	496.6	615.7	704.7	735.9
75°	327.1	422.1	545.9	632.5	667.4
77.5°	257.3	353.5	478.6	567.6	597.6
80°	187.6	288.6	416.1	503.8	532.7
82.5°	123.9	229.7	355.9	443.7	475.0
85°	72.1	179.2	303.0	387.2	420.9
87.5°	31.3	135.9	253.7	336.7	364.4
90°	1.2	101.0	214.0	294.6	323.5
92.5°	1.2	98.6	209.2	288.6	316.3
95°	1.2	96.2	208.0	285.0	312.6
97.5°	1.2	95.0	205.6	282.6	309.0
100°	1.2	91.4	202.0	277.8	304.2
102.5°	1.2	86.6	198.4	273.0	298.2
105°	1.2	83.0	194.8	268.2	292.2
107.5°	1.2	79.4	188.8	262.1	286.2
110°	1.2	75.8	179.2	256.1	280.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	74.6	172.0	247.7	273.0
115°	2.4	72.1	164.7	238.1	264.5
117.5°	2.4	70.9	158.7	228.5	256.1
120°	2.4	67.3	152.7	220.1	246.5
122.5°	2.4	63.7	146.7	211.6	238.1
125°	2.4	61.3	140.7	203.2	228.5
127.5°	2.4	57.7	135.9	194.8	217.7
130°	2.4	55.3	129.9	185.2	208.0
132.5°	2.4	51.7	123.9	175.6	197.2
135°	2.4	48.1	117.8	167.1	187.6
137.5°	2.4	43.3	110.6	157.5	176.8
140°	2.4	39.7	101.0	147.9	165.9
142.5°	2.4	37.3	91.4	137.1	153.9
145°	2.4	34.9	81.8	126.3	141.9
147.5°	2.4	32.5	73.4	115.4	129.9
150°	2.4	28.9	64.9	105.8	117.8
152.5°	3.6	26.5	57.7	93.8	105.8
155°	3.6	24.0	50.5	80.6	93.8
157.5°	3.6	21.6	43.3	67.3	81.8
160°	3.6	19.2	37.3	55.3	69.7
162.5°	3.6	18.0	32.5	45.7	58.9
165°	3.6	15.6	27.7	37.3	48.1
167.5°	3.6	12.0	22.8	28.9	39.7
170°	3.6	9.6	18.0	20.4	30.1
172.5°	3.6	7.2	13.2	14.4	15.6
175°	3.6	6.0	8.4	8.4	4.8
177.5°	3.6	4.8	4.8	4.8	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)