

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: P566930

Luminaire Tested: **4SNX-87HL-LW-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566930
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-L930-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

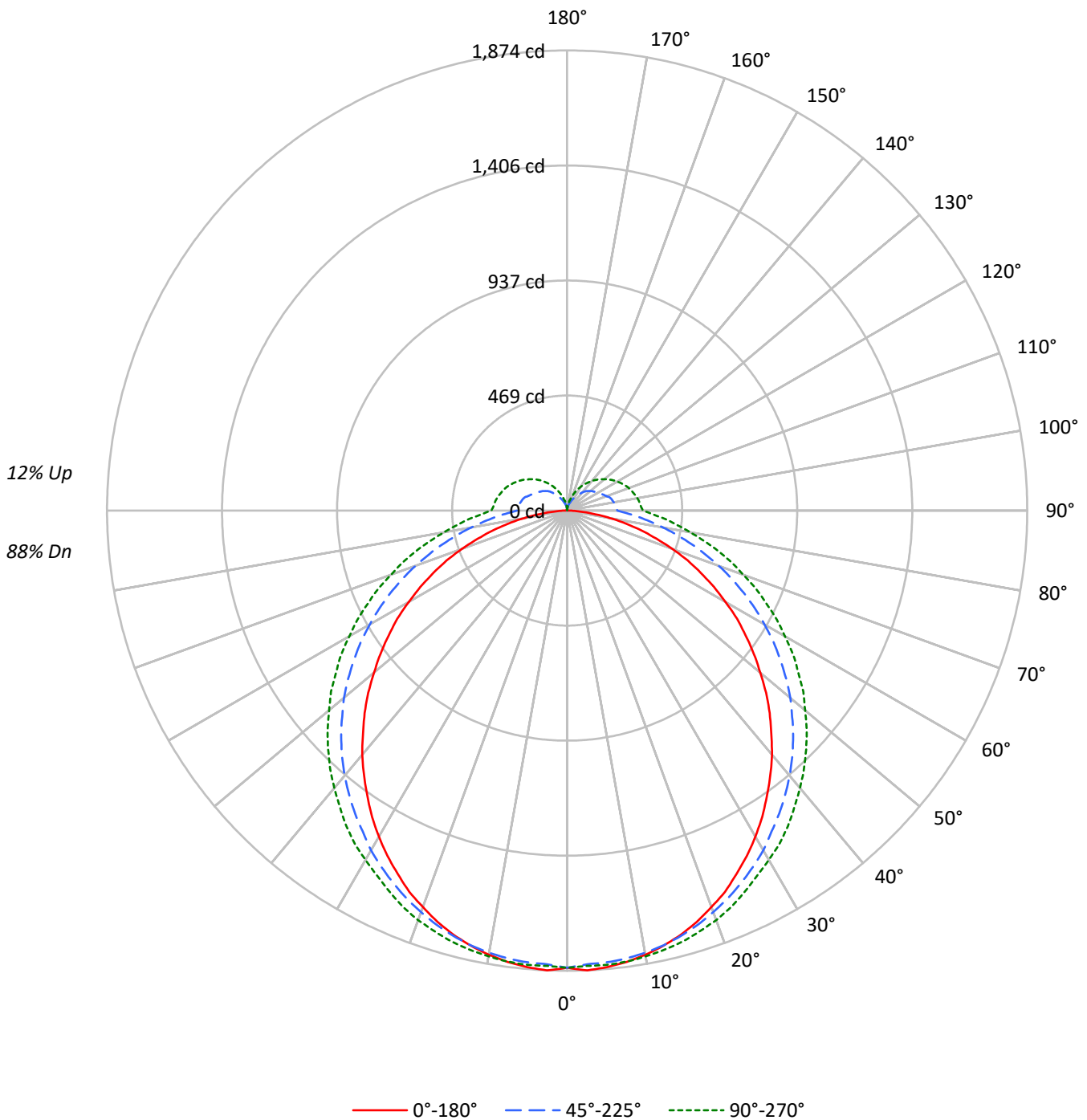
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6703.0 lumens
Efficiency: N/A
Efficacy: 107.8 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): 62.2
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°	20040	20040	20040
5°	20093	19118	18961
10°	19928	18364	18030
15°	19709	17616	17180
20°	19390	16860	16358
25°	19017	16124	15516
30°	18612	15405	14742
35°	18115	14651	14047
40°	17625	13946	13291
45°	17042	13202	12570
50°	16371	12434	11804
55°	15716	11591	11046
60°	14959	10704	10230
65°	14035	9740	9385
70°	12868	8697	8471
75°	11237	7553	7596
80°	8980	6411	6593
85°	5764	5313	5757



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	2.6
10°-20°	508.4	7.6
20°-30°	773.5	11.5
30°-40°	940.5	14.0
40°-50°	995.0	14.8
50°-60°	932.7	13.9
60°-70°	767.3	11.4
70°-80°	530.9	7.9
80°-90°	295.2	4.4
90°-100°	194.5	2.9
100°-110°	174.4	2.6
110°-120°	144.4	2.2
120°-130°	111.6	1.7
130°-140°	79.0	1.2
140°-150°	47.7	0.7
150°-160°	22.9	0.3
160°-170°	7.5	0.1
170°-180°	0.9	0.0
0°-30°	1458.7	21.8
0°-40°	2399.2	35.8
0°-60°	4326.8	64.6
0°-90°	5920.2	88.3
90°-120°	513.2	7.7
90°-150°	751.5	11.2
90°-180°	783.0	11.7
0°-180°	6703.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1866	1863	1847	1862	1857	177
15°	1788	1794	1793	1817	1817	504
25°	1632	1655	1675	1712	1713	752
35°	1419	1457	1506	1554	1568	888
45°	1166	1227	1302	1360	1376	899
55°	887	966	1060	1126	1149	794
65°	600	686	793	871	895	595
75°	312	403	521	604	637	331
85°	69	171	289	370	402	79
90°	1	96	204	281	309	5
95°	1	92	199	272	298	1
105°	1	79	186	256	279	1
115°	2	69	157	227	252	2
125°	2	58	134	194	218	2
135°	2	46	112	160	179	2
145°	2	33	78	120	135	1
155°	3	23	48	77	90	2
165°	3	15	26	36	46	1
175°	3	6	8	8	5	0
180°	2	2	2	2	2	



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CATALOG NUMBER: 4SNX-87HL-LW-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1861.8	1861.8	1861.8	1861.8	1861.8
2.5°	1874.5	1868.7	1849.2	1861.8	1856.1
5°	1866.4	1863.0	1846.9	1861.8	1857.2
7.5°	1853.8	1852.7	1840.0	1857.2	1852.7
10°	1836.6	1838.9	1828.5	1846.9	1843.5
12.5°	1814.8	1818.2	1813.6	1834.3	1832.0
15°	1788.4	1794.1	1793.0	1817.1	1817.1
17.5°	1756.2	1764.3	1768.9	1796.4	1796.4
20°	1718.4	1731.0	1740.2	1770.0	1774.6
22.5°	1680.5	1695.4	1709.2	1740.2	1747.0
25°	1632.3	1655.2	1674.7	1711.5	1712.6
27.5°	1585.2	1610.5	1636.9	1672.4	1675.9
30°	1533.5	1565.7	1597.8	1632.3	1642.6
32.5°	1478.4	1514.0	1549.6	1595.5	1609.3
35°	1418.8	1456.6	1506.0	1554.2	1568.0
37.5°	1359.1	1401.5	1458.9	1508.3	1520.9
40°	1298.2	1345.3	1409.6	1460.1	1475.0
42.5°	1230.5	1287.9	1356.8	1410.7	1427.9
45°	1166.2	1227.1	1301.7	1360.2	1376.3
47.5°	1098.5	1162.8	1243.1	1305.1	1323.5
50°	1026.2	1099.7	1185.7	1247.7	1264.9
52.5°	958.5	1033.1	1123.8	1188.0	1212.1
55°	887.3	966.5	1059.5	1126.1	1149.0
57.5°	820.7	896.5	996.3	1062.9	1091.6
60°	745.0	828.8	928.6	1000.9	1023.9
62.5°	673.8	758.7	862.0	936.7	963.1
65°	600.3	686.4	793.2	871.2	895.3
67.5°	531.5	616.4	725.4	802.4	833.3
70°	455.7	545.2	656.6	735.8	762.2
72.5°	381.1	474.1	587.7	672.6	702.5
75°	312.2	402.9	521.1	603.8	637.1
77.5°	245.6	337.5	456.8	541.8	570.5
80°	179.1	275.5	397.2	481.0	508.5
82.5°	118.2	219.2	339.8	423.6	453.4
85°	68.9	171.0	289.3	369.6	401.8
87.5°	29.8	129.7	242.2	321.4	347.8
90°	1.1	96.4	204.3	281.2	308.8
92.5°	1.1	94.1	199.7	275.5	301.9
95°	1.1	91.8	198.6	272.0	298.4
97.5°	1.1	90.7	196.3	269.7	295.0
100°	1.1	87.2	192.8	265.2	290.4
102.5°	1.1	82.6	189.4	260.6	284.7
105°	1.1	79.2	186.0	256.0	278.9
107.5°	1.1	75.8	180.2	250.2	273.2
110°	1.1	72.3	171.0	244.5	267.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	71.2	164.1	236.5	260.6
115°	2.3	68.9	157.3	227.3	252.5
117.5°	2.3	67.7	151.5	218.1	244.5
120°	2.3	64.3	145.8	210.1	235.3
122.5°	2.3	60.8	140.0	202.0	227.3
125°	2.3	58.5	134.3	194.0	218.1
127.5°	2.3	55.1	129.7	186.0	207.8
130°	2.3	52.8	124.0	176.8	198.6
132.5°	2.3	49.4	118.2	167.6	188.2
135°	2.3	45.9	112.5	159.6	179.1
137.5°	2.3	41.3	105.6	150.4	168.7
140°	2.3	37.9	96.4	141.2	158.4
142.5°	2.3	35.6	87.2	130.9	146.9
145°	2.3	33.3	78.1	120.5	135.4
147.5°	2.3	31.0	70.0	110.2	124.0
150°	2.3	27.5	62.0	101.0	112.5
152.5°	3.4	25.3	55.1	89.5	101.0
155°	3.4	23.0	48.2	76.9	89.5
157.5°	3.4	20.7	41.3	64.3	78.1
160°	3.4	18.4	35.6	52.8	66.6
162.5°	3.4	17.2	31.0	43.6	56.2
165°	3.4	14.9	26.4	35.6	45.9
167.5°	3.4	11.5	21.8	27.5	37.9
170°	3.4	9.2	17.2	19.5	28.7
172.5°	3.4	6.9	12.6	13.8	14.9
175°	3.4	5.7	8.0	8.0	4.6
177.5°	3.4	4.6	4.6	4.6	2.3
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)