

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: P566925

Luminaire Tested: **4SNX-87HL-LN-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-87HL-LN-UNV-L950-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

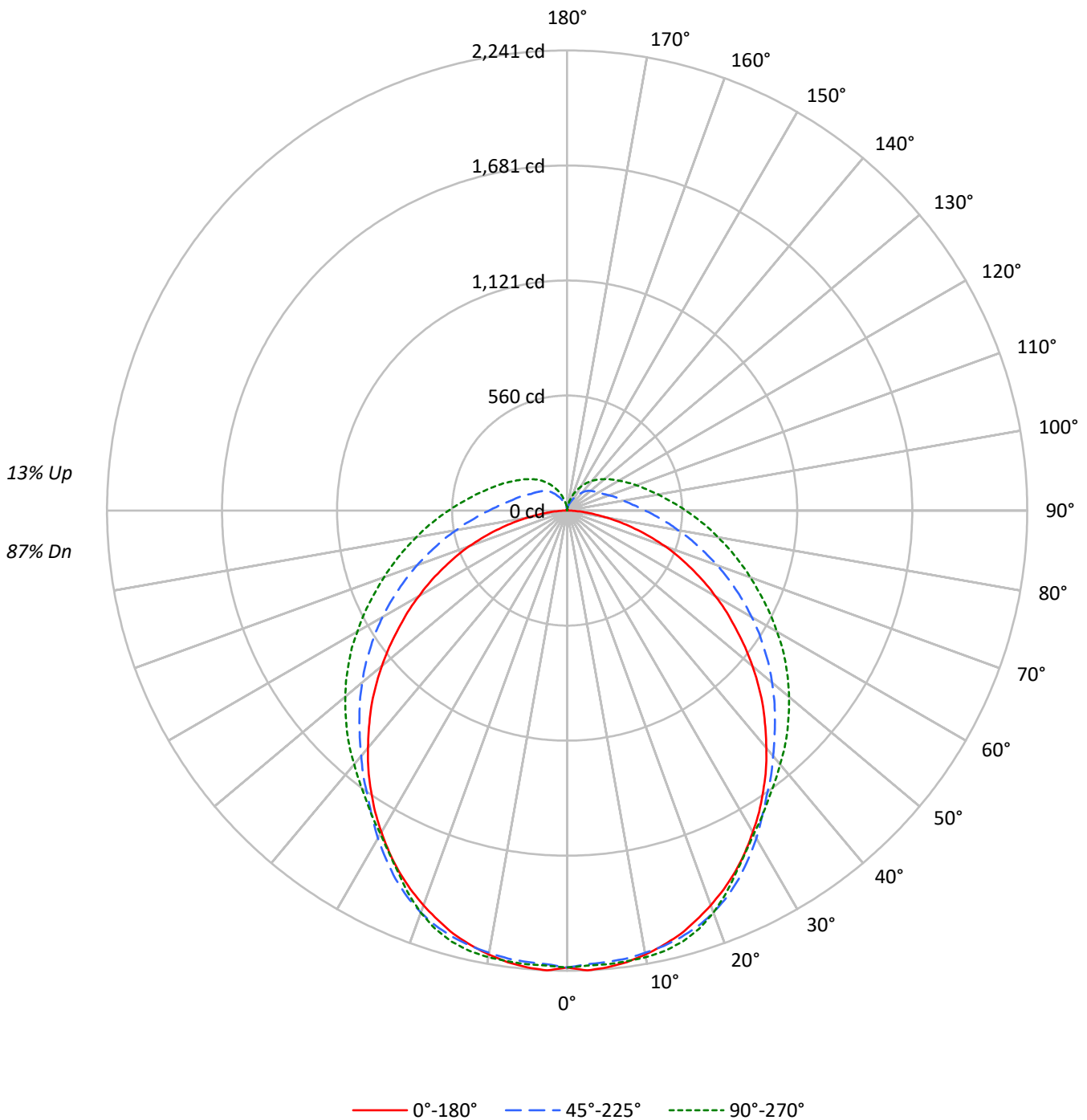
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8032.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
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	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23950	23950	23950
5°	24042	22849	22647
10°	23817	21963	21602
15°	23530	21125	20548
20°	23078	20185	19205
25°	22591	19049	17630
30°	21948	17775	16315
35°	21263	16480	15334
40°	20484	15438	14540
45°	19720	14515	13854
50°	18812	13665	13164
55°	17751	12812	12489
60°	16734	11961	11781
65°	15599	11103	11134
70°	14306	10298	10548
75°	12302	9513	10067
80°	9697	8835	9657
85°	6492	8352	9423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	2.6
10°-20°	607.7	7.6
20°-30°	904.9	11.3
30°-40°	1067.8	13.3
40°-50°	1113.6	13.9
50°-60°	1046.5	13.0
60°-70°	883.8	11.0
70°-80°	667.7	8.3
80°-90°	460.3	5.7
90°-100°	322.1	4.0
100°-110°	240.4	3.0
110°-120°	181.2	2.3
120°-130°	135.1	1.7
130°-140°	94.9	1.2
140°-150°	57.4	0.7
150°-160°	27.4	0.3
160°-170°	8.8	0.1
170°-180°	1.0	0.0
0°-30°	1724.0	21.5
0°-40°	2791.8	34.8
0°-60°	4951.9	61.7
0°-90°	6963.7	86.7
90°-120°	743.7	9.3
90°-150°	1031.1	12.8
90°-180°	1068.0	13.3
0°-180°	8032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2225	2225	2225	2225	2225	
5°	2233	2229	2207	2224	2218	212
15°	2135	2145	2150	2177	2173	601
25°	1939	1978	1978	1961	1946	892
35°	1665	1727	1694	1708	1712	1041
45°	1349	1416	1431	1490	1517	1039
55°	1002	1088	1171	1265	1299	899
65°	667	773	904	1023	1062	663
75°	342	474	656	794	844	364
85°	78	244	455	605	658	87
90°	1	173	380	526	577	5
95°	1	135	321	460	508	1
105°	3	97	248	360	400	3
115°	3	83	192	286	323	3
125°	4	71	162	234	264	4
135°	4	54	135	191	214	3
145°	5	40	94	146	163	3
155°	5	26	57	93	108	2
165°	7	16	30	41	54	2
175°	7	7	8	8	4	1
180°	4	4	4	4	4	



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CATALOG NUMBER: 4SNX-87HL-LN-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2225.0	2225.0	2225.0	2225.0	2225.0
2.5°	2241.4	2235.9	2211.4	2225.0	2218.2
5°	2233.2	2229.1	2207.3	2223.7	2218.2
7.5°	2218.2	2216.8	2200.5	2219.6	2214.1
10°	2195.1	2199.1	2186.9	2212.8	2208.7
12.5°	2167.8	2176.0	2171.9	2200.5	2196.4
15°	2135.1	2144.7	2150.1	2177.4	2173.3
17.5°	2091.6	2109.3	2121.5	2143.3	2136.5
20°	2045.3	2069.8	2083.4	2094.3	2083.4
22.5°	1994.9	2027.6	2035.7	2030.3	2019.4
25°	1939.1	1978.5	1978.5	1960.8	1945.9
27.5°	1876.4	1925.4	1911.8	1891.4	1879.1
30°	1808.3	1866.9	1843.7	1820.6	1817.9
32.5°	1740.2	1801.5	1767.5	1762.0	1766.1
35°	1665.4	1726.6	1694.0	1707.6	1711.7
37.5°	1590.5	1651.7	1630.0	1650.4	1662.6
40°	1508.8	1574.1	1560.5	1597.3	1613.6
42.5°	1428.4	1496.5	1495.1	1542.8	1567.3
45°	1349.4	1416.2	1431.1	1489.7	1516.9
47.5°	1263.7	1331.7	1368.5	1436.6	1463.8
50°	1179.2	1252.8	1303.1	1379.4	1410.7
52.5°	1092.1	1169.7	1239.1	1323.6	1356.3
55°	1002.2	1088.0	1171.1	1265.0	1299.1
57.5°	921.9	1009.0	1107.1	1203.7	1243.2
60°	833.4	930.0	1037.6	1139.7	1179.2
62.5°	753.0	852.4	972.3	1079.8	1122.0
65°	667.2	773.4	904.2	1022.6	1062.1
67.5°	588.3	697.2	840.2	960.0	1003.6
70°	506.6	622.3	777.5	904.2	949.1
72.5°	422.1	544.7	714.9	849.7	896.0
75°	341.8	473.9	656.3	793.9	844.3
77.5°	266.9	405.8	603.2	744.8	793.9
80°	193.4	344.5	547.4	694.5	744.8
82.5°	128.0	291.4	502.5	649.5	702.6
85°	77.6	243.7	454.8	604.6	657.7
87.5°	35.4	204.3	416.7	565.1	616.8
90°	1.4	172.9	379.9	525.6	577.4
92.5°	1.4	151.1	350.0	491.6	542.0
95°	1.4	134.8	321.4	460.3	507.9
97.5°	1.4	123.9	299.6	430.3	476.6
100°	1.4	113.0	277.8	403.1	450.7
102.5°	2.7	103.5	261.4	378.6	423.5
105°	2.7	96.7	247.8	359.5	400.3
107.5°	2.7	92.6	232.9	340.4	378.6
110°	2.7	88.5	216.5	321.4	359.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	85.8	204.3	305.0	341.8
115°	2.7	83.1	192.0	286.0	322.7
117.5°	2.7	81.7	185.2	271.0	306.4
120°	4.1	77.6	177.0	257.4	291.4
122.5°	4.1	73.5	168.9	246.5	276.4
125°	4.1	70.8	162.0	234.2	264.2
127.5°	4.1	66.7	155.2	223.3	250.6
130°	4.1	62.6	149.8	212.4	238.3
132.5°	4.1	58.6	143.0	201.5	226.0
135°	4.1	54.5	134.8	190.6	213.8
137.5°	4.1	50.4	126.6	179.7	201.5
140°	4.1	46.3	115.7	168.9	189.3
142.5°	4.1	42.2	104.9	158.0	175.7
145°	5.4	39.5	94.0	145.7	163.4
147.5°	5.4	35.4	83.1	133.4	148.4
150°	5.4	32.7	74.9	121.2	134.8
152.5°	5.4	28.6	66.7	107.6	121.2
155°	5.4	25.9	57.2	92.6	107.6
157.5°	5.4	23.1	49.0	77.6	94.0
160°	5.4	21.8	42.2	64.0	80.3
162.5°	6.8	19.1	35.4	51.7	66.7
165°	6.8	16.3	30.0	40.9	54.5
167.5°	6.8	13.6	24.5	31.3	42.2
170°	6.8	10.9	19.1	21.8	32.7
172.5°	6.8	8.2	13.6	15.0	16.3
175°	6.8	6.8	8.2	8.2	4.1
177.5°	6.8	6.8	5.4	4.1	1.4
180°	4.1	4.1	4.1	4.1	4.1

(END OF REPORT)