

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: P566924

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566924
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-L940-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

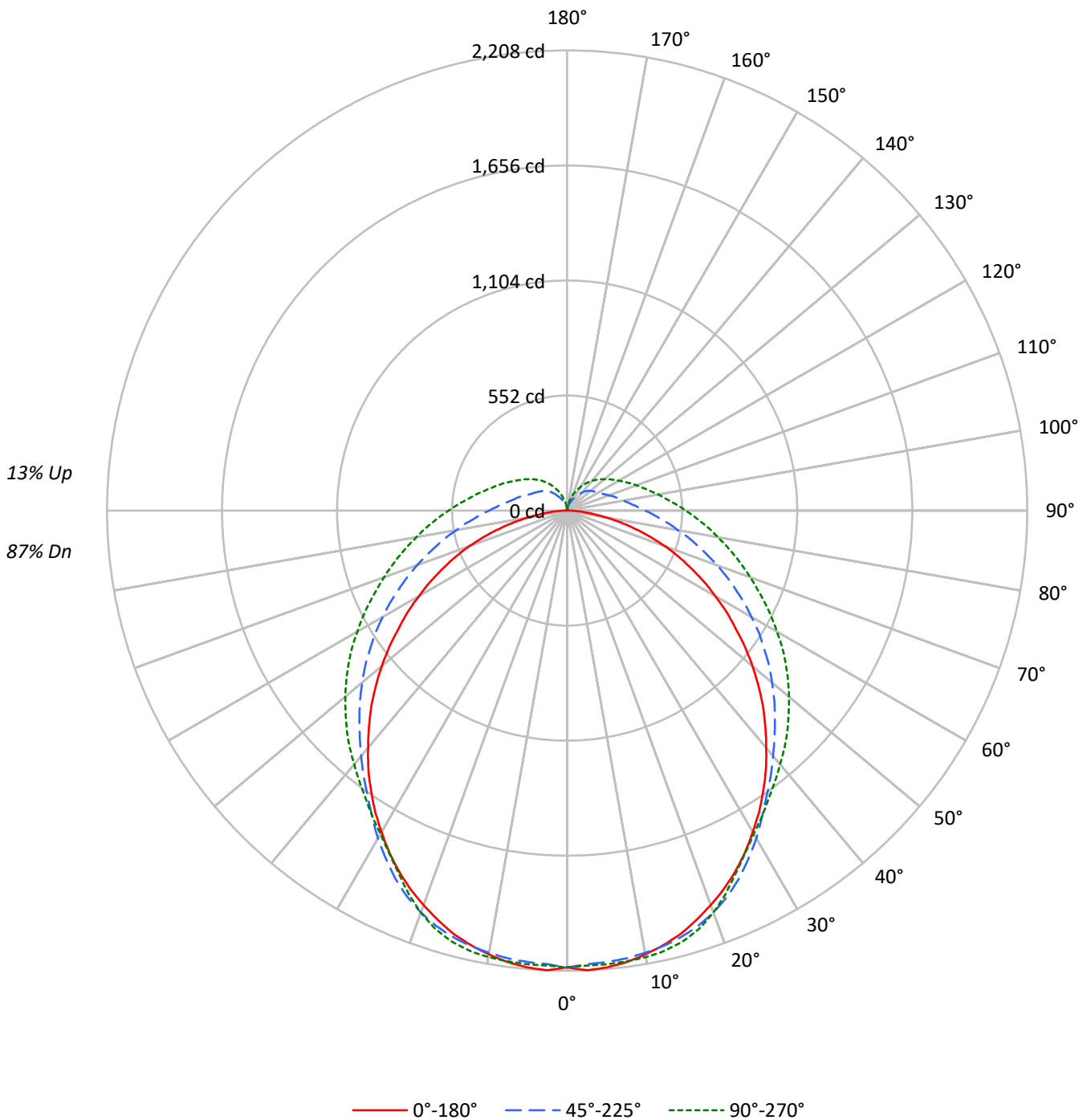
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7912.0 lumens
Efficiency: N/A
Efficacy: 127.2 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 (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	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°	23592	23592	23592
5°	23683	22507	22309
10°	23461	21635	21279
15°	23178	20809	20241
20°	22733	19884	18918
25°	22253	18765	17366
30°	21620	17510	16071
35°	20946	16233	15105
40°	20178	15208	14322
45°	19426	14299	13648
50°	18532	13461	12967
55°	17486	12621	12302
60°	16483	11782	11606
65°	15368	10937	10968
70°	14091	10144	10391
75°	12118	9371	9915
80°	9551	8703	9513
85°	6400	8227	9283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.2	2.6
10°-20°	598.6	7.6
20°-30°	891.4	11.3
30°-40°	1051.8	13.3
40°-50°	1097.0	13.9
50°-60°	1030.8	13.0
60°-70°	870.6	11.0
70°-80°	657.8	8.3
80°-90°	453.4	5.7
90°-100°	317.3	4.0
100°-110°	236.8	3.0
110°-120°	178.5	2.3
120°-130°	133.1	1.7
130°-140°	93.4	1.2
140°-150°	56.5	0.7
150°-160°	27.0	0.3
160°-170°	8.7	0.1
170°-180°	1.0	0.0
0°-30°	1698.3	21.5
0°-40°	2750.1	34.8
0°-60°	4877.9	61.7
0°-90°	6859.7	86.7
90°-120°	732.6	9.3
90°-150°	1015.6	12.8
90°-180°	1052.0	13.3
0°-180°	7912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2192	2192	2192	2192	2192	
5°	2200	2196	2174	2190	2185	209
15°	2103	2113	2118	2145	2141	592
25°	1910	1949	1949	1932	1917	879
35°	1640	1701	1669	1682	1686	1026
45°	1329	1395	1410	1467	1494	1024
55°	987	1072	1154	1246	1280	886
65°	657	762	891	1007	1046	653
75°	337	467	646	782	832	359
85°	76	240	448	596	648	86
90°	1	170	374	518	569	5
95°	1	133	317	453	500	1
105°	3	95	244	354	394	3
115°	3	82	189	282	318	3
125°	4	70	160	231	260	4
135°	4	54	133	188	211	3
145°	5	39	93	144	161	3
155°	5	26	56	91	106	2
165°	7	16	30	40	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-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2191.8	2191.8	2191.8	2191.8	2191.8
2.5°	2207.9	2202.5	2178.4	2191.8	2185.1
5°	2199.8	2195.8	2174.3	2190.4	2185.1
7.5°	2185.1	2183.7	2167.6	2186.4	2181.0
10°	2162.3	2166.3	2154.2	2179.7	2175.7
12.5°	2135.4	2143.5	2139.5	2167.6	2163.6
15°	2103.2	2112.6	2118.0	2144.8	2140.8
17.5°	2060.3	2077.8	2089.8	2111.3	2104.6
20°	2014.7	2038.9	2052.3	2063.0	2052.3
22.5°	1965.1	1997.3	2005.3	2000.0	1989.2
25°	1910.1	1949.0	1949.0	1931.5	1916.8
27.5°	1848.4	1896.7	1883.3	1863.1	1851.1
30°	1781.3	1839.0	1816.2	1793.4	1790.7
32.5°	1714.2	1774.6	1741.1	1735.7	1739.7
35°	1640.5	1700.8	1668.6	1682.1	1686.1
37.5°	1566.7	1627.1	1605.6	1625.7	1637.8
40°	1486.2	1550.6	1537.2	1573.4	1589.5
42.5°	1407.1	1474.1	1472.8	1519.8	1543.9
45°	1329.3	1395.0	1409.8	1467.4	1494.3
47.5°	1244.8	1311.8	1348.1	1415.1	1442.0
50°	1161.6	1234.0	1283.7	1358.8	1389.6
52.5°	1075.8	1152.2	1220.6	1303.8	1336.0
55°	987.2	1071.7	1153.6	1246.1	1279.7
57.5°	908.1	993.9	1090.5	1185.8	1224.7
60°	820.9	916.1	1022.1	1122.7	1161.6
62.5°	741.8	839.7	957.7	1063.7	1105.3
65°	657.3	761.9	890.7	1007.4	1046.3
67.5°	579.5	686.8	827.6	945.7	988.6
70°	499.0	613.0	765.9	890.7	934.9
72.5°	415.8	536.5	704.2	837.0	882.6
75°	336.7	466.8	646.5	782.0	831.6
77.5°	262.9	399.7	594.2	733.7	782.0
80°	190.5	339.4	539.2	684.1	733.7
82.5°	126.1	287.0	495.0	639.8	692.1
85°	76.5	240.1	448.0	595.6	647.9
87.5°	34.9	201.2	410.5	556.7	607.6
90°	1.3	170.4	374.2	517.8	568.7
92.5°	1.3	148.9	344.7	484.2	533.9
95°	1.3	132.8	316.6	453.4	500.3
97.5°	1.3	122.1	295.1	423.9	469.5
100°	1.3	111.3	273.6	397.0	444.0
102.5°	2.7	101.9	257.5	372.9	417.2
105°	2.7	95.2	244.1	354.1	394.4
107.5°	2.7	91.2	229.4	335.3	372.9
110°	2.7	87.2	213.3	316.6	354.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	84.5	201.2	300.5	336.7
115°	2.7	81.8	189.1	281.7	317.9
117.5°	2.7	80.5	182.4	266.9	301.8
120°	4.0	76.5	174.4	253.5	287.0
122.5°	4.0	72.4	166.3	242.8	272.3
125°	4.0	69.8	159.6	230.7	260.2
127.5°	4.0	65.7	152.9	220.0	246.8
130°	4.0	61.7	147.5	209.3	234.7
132.5°	4.0	57.7	140.8	198.5	222.7
135°	4.0	53.7	132.8	187.8	210.6
137.5°	4.0	49.6	124.7	177.1	198.5
140°	4.0	45.6	114.0	166.3	186.4
142.5°	4.0	41.6	103.3	155.6	173.0
145°	5.4	38.9	92.6	143.5	161.0
147.5°	5.4	34.9	81.8	131.5	146.2
150°	5.4	32.2	73.8	119.4	132.8
152.5°	5.4	28.2	65.7	106.0	119.4
155°	5.4	25.5	56.3	91.2	106.0
157.5°	5.4	22.8	48.3	76.5	92.6
160°	5.4	21.5	41.6	63.0	79.1
162.5°	6.7	18.8	34.9	51.0	65.7
165°	6.7	16.1	29.5	40.2	53.7
167.5°	6.7	13.4	24.1	30.9	41.6
170°	6.7	10.7	18.8	21.5	32.2
172.5°	6.7	8.0	13.4	14.8	16.1
175°	6.7	6.7	8.0	8.0	4.0
177.5°	6.7	6.7	5.4	4.0	1.3
180°	4.0	4.0	4.0	4.0	4.0

(END OF REPORT)