

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: P566971

Luminaire Tested: **4SNX-90HL-LN-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566971
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-90HL-LN-UNV-L935-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

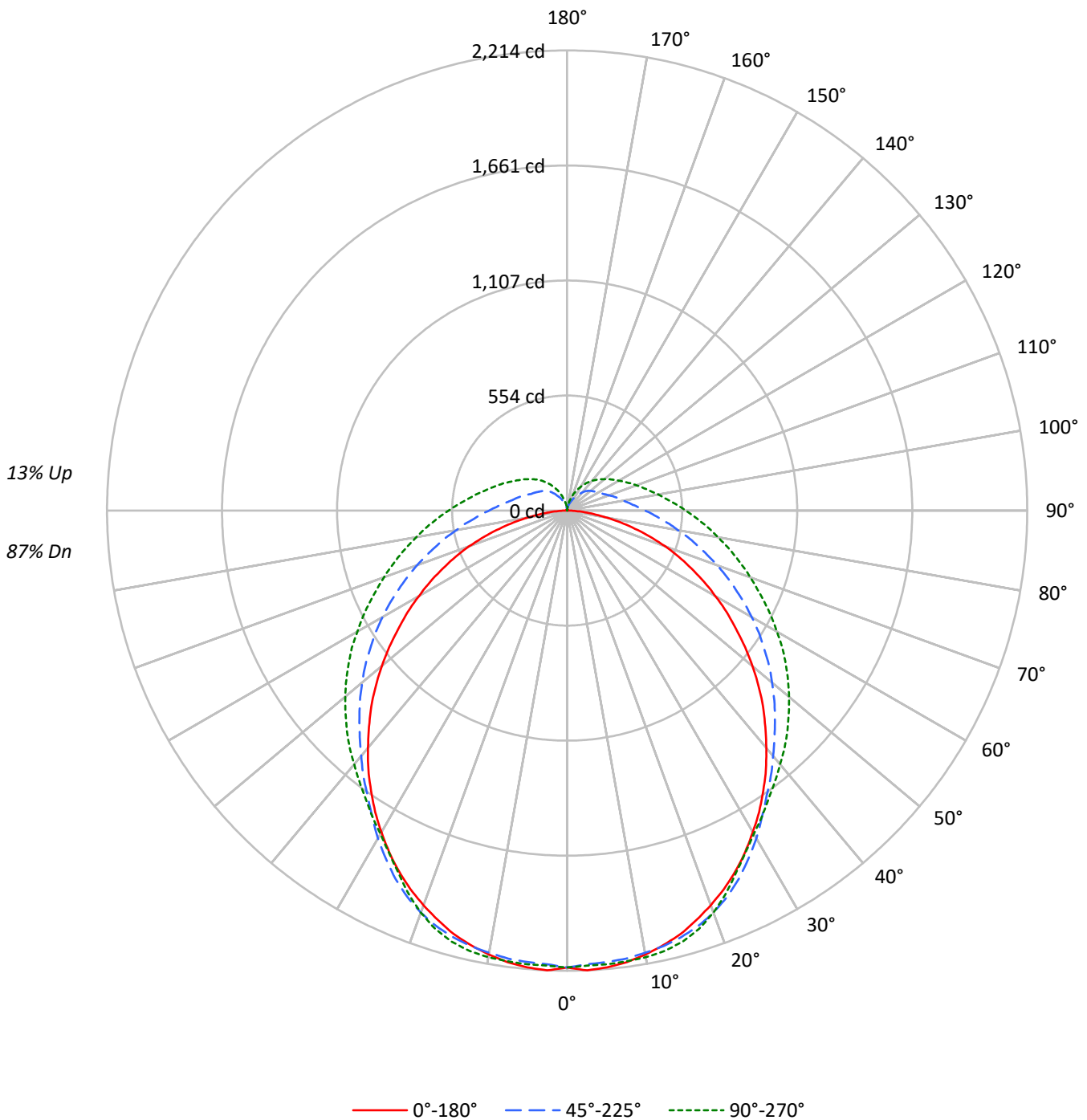
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7935.0 lumens
Efficiency: N/A
Efficacy: 123.2 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): 64.4
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°	23660	23660	23660
5°	23751	22573	22373
10°	23529	21698	21341
15°	23247	20870	20299
20°	22800	19941	18972
25°	22317	18820	17417
30°	21683	17561	16118
35°	21006	16280	15149
40°	20236	15252	14364
45°	19481	14340	13687
50°	18586	13500	13005
55°	17537	12657	12338
60°	16531	11817	11640
65°	15412	10968	10999
70°	14131	10173	10421
75°	12154	9398	9945
80°	9576	8728	9541
85°	6417	8251	9310



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	2.6
10°-20°	600.4	7.6
20°-30°	894.0	11.3
30°-40°	1054.9	13.3
40°-50°	1100.1	13.9
50°-60°	1033.9	13.0
60°-70°	873.1	11.0
70°-80°	659.7	8.3
80°-90°	454.7	5.7
90°-100°	318.2	4.0
100°-110°	237.5	3.0
110°-120°	179.0	2.3
120°-130°	133.5	1.7
130°-140°	93.7	1.2
140°-150°	56.6	0.7
150°-160°	27.1	0.3
160°-170°	8.7	0.1
170°-180°	1.0	0.0
0°-30°	1703.2	21.5
0°-40°	2758.1	34.8
0°-60°	4892.1	61.7
0°-90°	6879.6	86.7
90°-120°	734.7	9.3
90°-150°	1018.6	12.8
90°-180°	1055.0	13.3
0°-180°	7935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2198	2198	2198	2198	2198	
5°	2206	2202	2181	2197	2191	209
15°	2109	2119	2124	2151	2147	594
25°	1916	1955	1955	1937	1922	881
35°	1645	1706	1674	1687	1691	1029
45°	1333	1399	1414	1472	1499	1027
55°	990	1075	1157	1250	1283	888
65°	659	764	893	1010	1049	655
75°	338	468	648	784	834	360
85°	77	241	449	597	650	86
90°	1	171	375	519	570	5
95°	1	133	318	455	502	1
105°	3	96	245	355	396	3
115°	3	82	190	282	319	3
125°	4	70	160	231	261	4
135°	4	54	133	188	211	3
145°	5	39	93	144	161	3
155°	5	26	56	92	106	2
165°	7	16	30	40	54	2
175°	7	7	8	8	4	1
180°	4	4	4	4	4	



TEST NUMBER: P566971

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2198.1	2198.1	2198.1	2198.1	2198.1
2.5°	2214.3	2208.9	2184.7	2198.1	2191.4
5°	2206.2	2202.2	2180.7	2196.8	2191.4
7.5°	2191.4	2190.1	2173.9	2192.8	2187.4
10°	2168.5	2172.6	2160.5	2186.0	2182.0
12.5°	2141.6	2149.7	2145.7	2173.9	2169.9
15°	2109.4	2118.8	2124.2	2151.1	2147.0
17.5°	2066.3	2083.8	2095.9	2117.4	2110.7
20°	2020.6	2044.8	2058.2	2069.0	2058.2
22.5°	1970.8	2003.1	2011.2	2005.8	1995.0
25°	1915.6	1954.7	1954.7	1937.2	1922.4
27.5°	1853.8	1902.2	1888.7	1868.6	1856.4
30°	1786.5	1844.3	1821.5	1798.6	1795.9
32.5°	1719.2	1779.8	1746.1	1740.8	1744.8
35°	1645.2	1705.8	1673.5	1686.9	1691.0
37.5°	1571.3	1631.8	1610.3	1630.4	1642.6
40°	1490.5	1555.1	1541.7	1578.0	1594.1
42.5°	1411.2	1478.4	1477.1	1524.2	1548.4
45°	1333.1	1399.1	1413.9	1471.7	1498.6
47.5°	1248.4	1315.7	1352.0	1419.2	1446.1
50°	1165.0	1237.6	1287.4	1362.7	1393.7
52.5°	1078.9	1155.6	1224.2	1307.6	1339.9
55°	990.1	1074.9	1156.9	1249.7	1283.4
57.5°	910.7	996.8	1093.7	1189.2	1228.2
60°	823.3	918.8	1025.1	1126.0	1165.0
62.5°	743.9	842.1	960.5	1066.8	1108.5
65°	659.2	764.1	893.2	1010.3	1049.3
67.5°	581.1	688.8	830.0	948.4	991.5
70°	500.4	614.8	768.1	893.2	937.6
72.5°	417.0	538.1	706.3	839.4	885.2
75°	337.7	468.1	648.4	784.3	834.1
77.5°	263.7	400.9	595.9	735.9	784.3
80°	191.0	340.3	540.8	686.1	735.9
82.5°	126.5	287.9	496.4	641.7	694.2
85°	76.7	240.8	449.3	597.3	649.8
87.5°	35.0	201.8	411.6	558.3	609.4
90°	1.3	170.8	375.3	519.3	570.4
92.5°	1.3	149.3	345.7	485.6	535.4
95°	1.3	133.2	317.5	454.7	501.8
97.5°	1.3	122.4	296.0	425.1	470.8
100°	1.3	111.7	274.4	398.2	445.3
102.5°	2.7	102.2	258.3	374.0	418.4
105°	2.7	95.5	244.8	355.1	395.5
107.5°	2.7	91.5	230.0	336.3	374.0
110°	2.7	87.4	213.9	317.5	355.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	84.8	201.8	301.3	337.7
115°	2.7	82.1	189.7	282.5	318.8
117.5°	2.7	80.7	183.0	267.7	302.7
120°	4.0	76.7	174.9	254.3	287.9
122.5°	4.0	72.6	166.8	243.5	273.1
125°	4.0	70.0	160.1	231.4	261.0
127.5°	4.0	65.9	153.4	220.6	247.5
130°	4.0	61.9	148.0	209.9	235.4
132.5°	4.0	57.8	141.3	199.1	223.3
135°	4.0	53.8	133.2	188.3	211.2
137.5°	4.0	49.8	125.1	177.6	199.1
140°	4.0	45.7	114.3	166.8	187.0
142.5°	4.0	41.7	103.6	156.0	173.5
145°	5.4	39.0	92.8	143.9	161.4
147.5°	5.4	35.0	82.1	131.8	146.6
150°	5.4	32.3	74.0	119.7	133.2
152.5°	5.4	28.3	65.9	106.3	119.7
155°	5.4	25.6	56.5	91.5	106.3
157.5°	5.4	22.9	48.4	76.7	92.8
160°	5.4	21.5	41.7	63.2	79.4
162.5°	6.7	18.8	35.0	51.1	65.9
165°	6.7	16.1	29.6	40.4	53.8
167.5°	6.7	13.5	24.2	30.9	41.7
170°	6.7	10.8	18.8	21.5	32.3
172.5°	6.7	8.1	13.5	14.8	16.1
175°	6.7	6.7	8.1	8.1	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)