

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: P566988

Luminaire Tested: **4SNX-90HL-SLW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566988
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-90HL-SLW-UNV-L940-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

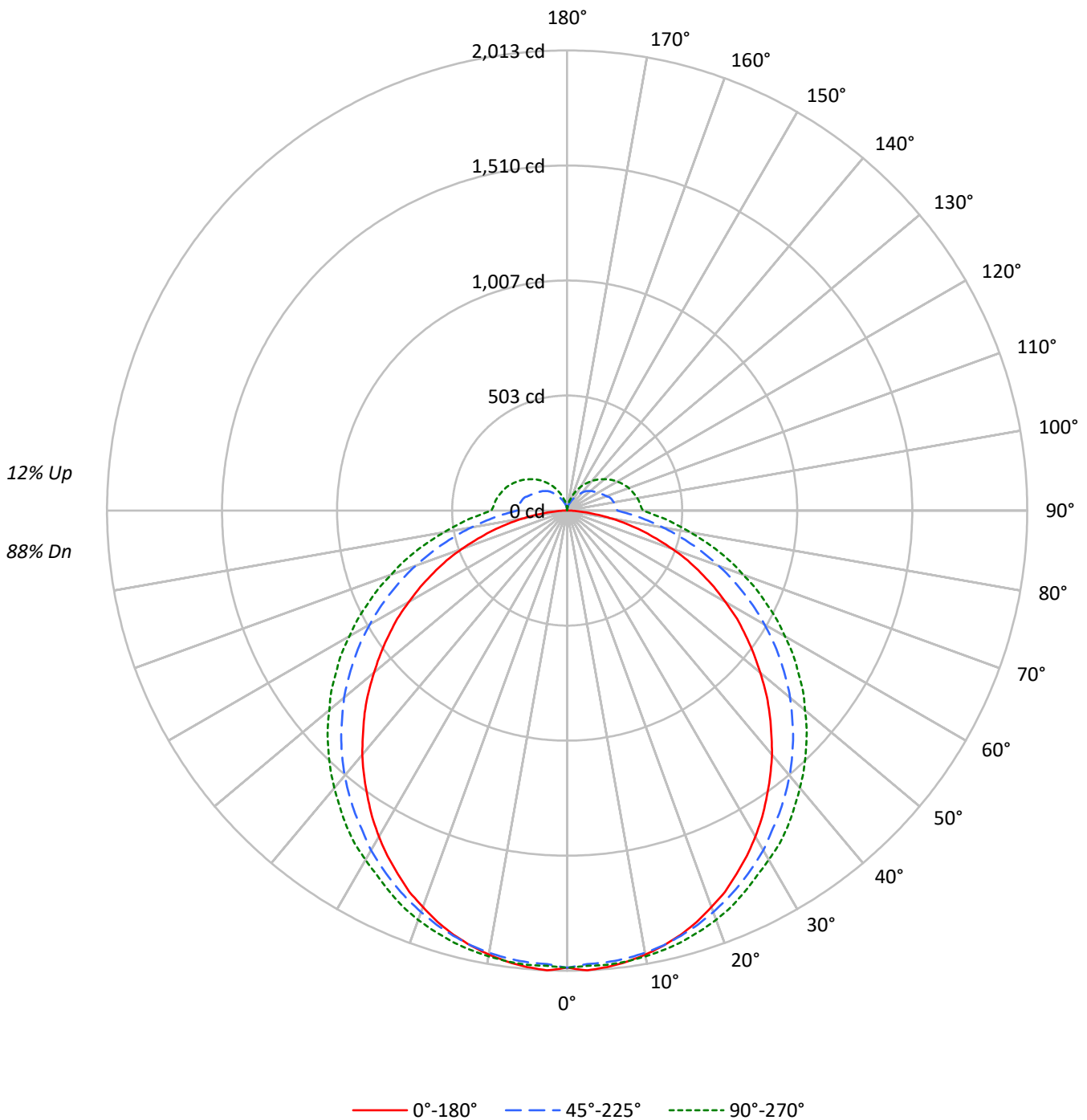
Lumens per Lamp: N/A
Luminaire Lumens: 7199.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

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	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°	21524	21524	21524
5°	21619	20975	20944
10°	21481	20561	20443
15°	21285	20114	19970
20°	20981	19626	19478
25°	20620	19137	18916
30°	20228	18645	18399
35°	19735	18093	17954
40°	19256	17591	17409
45°	18679	17033	16892
50°	18010	16439	16300
55°	17370	15745	15709
60°	16627	14993	15031
65°	15723	14136	14306
70°	14571	13169	13473
75°	12942	12055	12709
80°	10665	10949	11742
85°	7387	9964	11114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.8	2.6
10°-20°	546.1	7.6
20°-30°	830.7	11.5
30°-40°	1010.1	14.0
40°-50°	1068.6	14.8
50°-60°	1001.7	13.9
60°-70°	824.1	11.4
70°-80°	570.2	7.9
80°-90°	317.1	4.4
90°-100°	208.9	2.9
100°-110°	187.3	2.6
110°-120°	155.0	2.2
120°-130°	119.9	1.7
130°-140°	84.8	1.2
140°-150°	51.2	0.7
150°-160°	24.6	0.3
160°-170°	8.0	0.1
170°-180°	1.0	0.0
0°-30°	1566.6	21.8
0°-40°	2576.7	35.8
0°-60°	4647.0	64.6
0°-90°	6358.3	88.3
90°-120°	551.2	7.7
90°-150°	807.1	11.2
90°-180°	841.0	11.7
0°-180°	7199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2000	2000	2000	2000	2000	
5°	2004	2001	1984	2000	1995	190
15°	1921	1927	1926	1952	1952	541
25°	1753	1778	1799	1838	1839	808
35°	1524	1564	1617	1669	1684	954
45°	1252	1318	1398	1461	1478	965
55°	953	1038	1138	1209	1234	853
65°	645	737	852	936	962	639
75°	335	433	560	648	684	356
85°	74	184	311	397	432	85
90°	1	104	219	302	332	5
95°	1	99	213	292	320	1
105°	1	85	200	275	300	1
115°	2	74	169	244	271	2
125°	2	63	144	208	234	2
135°	2	49	121	171	192	2
145°	2	36	84	129	146	2
155°	4	25	52	83	96	2
165°	4	16	28	38	49	1
175°	4	6	9	9	5	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1999.6	1999.6	1999.6	1999.6	1999.6
2.5°	2013.2	2007.0	1986.0	1999.6	1993.4
5°	2004.5	2000.8	1983.6	1999.6	1994.7
7.5°	1991.0	1989.7	1976.2	1994.7	1989.7
10°	1972.5	1974.9	1963.9	1983.6	1979.9
12.5°	1949.1	1952.8	1947.8	1970.0	1967.6
15°	1920.7	1926.9	1925.6	1951.5	1951.5
17.5°	1886.2	1894.8	1899.7	1929.3	1929.3
20°	1845.5	1859.1	1868.9	1901.0	1905.9
22.5°	1804.8	1820.8	1835.6	1868.9	1876.3
25°	1753.0	1777.7	1798.7	1838.1	1839.3
27.5°	1702.5	1729.6	1758.0	1796.2	1799.9
30°	1647.0	1681.5	1716.1	1753.0	1764.1
32.5°	1587.8	1626.1	1664.3	1713.6	1728.4
35°	1523.7	1564.4	1617.4	1669.2	1684.0
37.5°	1459.6	1505.3	1566.9	1619.9	1633.5
40°	1394.3	1444.8	1513.9	1568.1	1584.1
42.5°	1321.6	1383.2	1457.2	1515.1	1533.6
45°	1252.5	1317.9	1398.0	1460.9	1478.1
47.5°	1179.8	1248.8	1335.1	1401.7	1421.4
50°	1102.1	1181.0	1273.5	1340.1	1358.5
52.5°	1029.4	1109.5	1206.9	1275.9	1301.8
55°	953.0	1038.0	1137.9	1209.4	1234.0
57.5°	881.5	962.8	1070.1	1141.6	1172.4
60°	800.1	890.1	997.3	1075.0	1099.7
62.5°	723.7	814.9	925.8	1006.0	1034.3
65°	644.8	737.2	851.9	935.7	961.6
67.5°	570.8	662.0	779.1	861.7	895.0
70°	489.4	585.6	705.2	790.2	818.6
72.5°	409.3	509.1	631.2	722.4	754.5
75°	335.3	432.7	559.7	648.5	684.2
77.5°	263.8	362.4	490.7	581.9	612.7
80°	192.3	295.9	426.5	516.5	546.1
82.5°	127.0	235.5	364.9	454.9	487.0
85°	74.0	183.7	310.7	397.0	431.5
87.5°	32.1	139.3	260.1	345.2	373.5
90°	1.2	103.6	219.4	302.0	331.6
92.5°	1.2	101.1	214.5	295.9	324.2
95°	1.2	98.6	213.3	292.2	320.5
97.5°	1.2	97.4	210.8	289.7	316.8
100°	1.2	93.7	207.1	284.8	311.9
102.5°	1.2	88.8	203.4	279.8	305.7
105°	1.2	85.1	199.7	274.9	299.6
107.5°	1.2	81.4	193.5	268.8	293.4
110°	1.2	77.7	183.7	262.6	287.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	76.4	176.3	254.0	279.8
115°	2.5	74.0	168.9	244.1	271.2
117.5°	2.5	72.7	162.7	234.2	262.6
120°	2.5	69.0	156.6	225.6	252.7
122.5°	2.5	65.3	150.4	217.0	244.1
125°	2.5	62.9	144.2	208.3	234.2
127.5°	2.5	59.2	139.3	199.7	223.1
130°	2.5	56.7	133.1	189.9	213.3
132.5°	2.5	53.0	127.0	180.0	202.2
135°	2.5	49.3	120.8	171.4	192.3
137.5°	2.5	44.4	113.4	161.5	181.2
140°	2.5	40.7	103.6	151.6	170.1
142.5°	2.5	38.2	93.7	140.5	157.8
145°	2.5	35.8	83.8	129.4	145.5
147.5°	2.5	33.3	75.2	118.3	133.1
150°	2.5	29.6	66.6	108.5	120.8
152.5°	3.7	27.1	59.2	96.2	108.5
155°	3.7	24.7	51.8	82.6	96.2
157.5°	3.7	22.2	44.4	69.0	83.8
160°	3.7	19.7	38.2	56.7	71.5
162.5°	3.7	18.5	33.3	46.8	60.4
165°	3.7	16.0	28.4	38.2	49.3
167.5°	3.7	12.3	23.4	29.6	40.7
170°	3.7	9.9	18.5	21.0	30.8
172.5°	3.7	7.4	13.6	14.8	16.0
175°	3.7	6.2	8.6	8.6	4.9
177.5°	3.7	4.9	4.9	4.9	2.5
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)