

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: P566978

Luminaire Tested: **4SNX-90HL-LW-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566978  
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-LW-UNV-L930-CD  
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

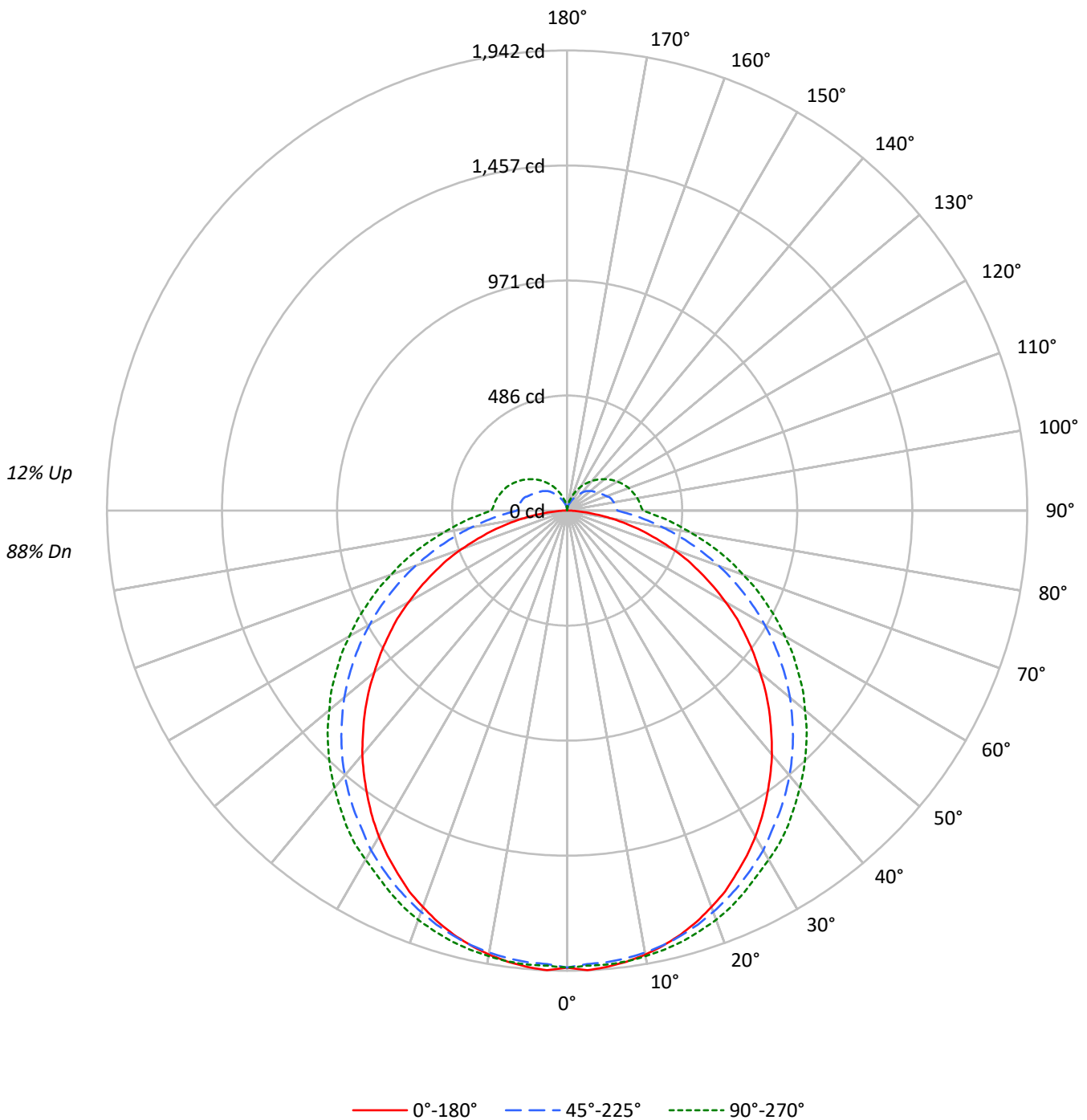
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6943.0 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): 64.4  
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	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°	20758	20758	20758
5°	20813	19802	19640
10°	20640	19021	18675
15°	20415	18247	17795
20°	20084	17463	16944
25°	19697	16702	16072
30°	19280	15956	15270
35°	18764	15175	14549
40°	18256	14444	13766
45°	17653	13675	13021
50°	16957	12879	12226
55°	16279	12006	11442
60°	15493	11088	10596
65°	14538	10089	9722
70°	13329	9008	8775
75°	11640	7824	7868
80°	9301	6640	6829
85°	5965	5502	5961



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.1	2.6
10°-20°	526.6	7.6
20°-30°	801.2	11.5
30°-40°	974.2	14.0
40°-50°	1030.6	14.8
50°-60°	966.1	13.9
60°-70°	794.8	11.4
70°-80°	549.9	7.9
80°-90°	305.8	4.4
90°-100°	201.5	2.9
100°-110°	180.6	2.6
110°-120°	149.5	2.2
120°-130°	115.6	1.7
130°-140°	81.8	1.2
140°-150°	49.4	0.7
150°-160°	23.7	0.3
160°-170°	7.8	0.1
170°-180°	0.9	0.0
0°-30°	1510.9	21.8
0°-40°	2485.1	35.8
0°-60°	4481.8	64.6
0°-90°	6132.2	88.3
90°-120°	531.6	7.7
90°-150°	778.4	11.2
90°-180°	811.0	11.7
0°-180°	6943.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1928	1928	1928	1928	1928	
5°	1933	1930	1913	1928	1924	184
15°	1852	1858	1857	1882	1882	522
25°	1691	1714	1735	1773	1774	779
35°	1470	1509	1560	1610	1624	920
45°	1208	1271	1348	1409	1426	931
55°	919	1001	1097	1166	1190	823
65°	622	711	822	902	927	617
75°	323	417	540	625	660	343
85°	71	177	300	383	416	82
90°	1	100	212	291	320	5
95°	1	95	206	282	309	1
105°	1	82	193	265	289	1
115°	2	71	163	235	262	2
125°	2	61	139	201	226	2
135°	2	48	116	165	186	2
145°	2	34	81	125	140	2
155°	4	24	50	80	93	2
165°	4	16	27	37	48	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1928.5	1928.5	1928.5	1928.5	1928.5
2.5°	1941.6	1935.6	1915.4	1928.5	1922.6
5°	1933.3	1929.7	1913.0	1928.5	1923.7
7.5°	1920.2	1919.0	1905.9	1923.7	1919.0
10°	1902.3	1904.7	1894.0	1913.0	1909.5
12.5°	1879.7	1883.3	1878.6	1900.0	1897.6
15°	1852.4	1858.3	1857.2	1882.1	1882.1
17.5°	1819.1	1827.4	1832.2	1860.7	1860.7
20°	1779.9	1793.0	1802.5	1833.4	1838.1
22.5°	1740.6	1756.1	1770.4	1802.5	1809.6
25°	1690.7	1714.5	1734.7	1772.7	1773.9
27.5°	1642.0	1668.1	1695.5	1732.3	1735.9
30°	1588.5	1621.7	1655.0	1690.7	1701.4
32.5°	1531.4	1568.2	1605.1	1652.7	1666.9
35°	1469.6	1508.8	1559.9	1609.9	1624.1
37.5°	1407.7	1451.7	1511.2	1562.3	1575.4
40°	1344.7	1393.5	1460.0	1512.4	1527.8
42.5°	1274.6	1334.0	1405.4	1461.2	1479.1
45°	1208.0	1271.0	1348.3	1408.9	1425.6
47.5°	1137.8	1204.4	1287.6	1351.9	1370.9
50°	1062.9	1139.0	1228.2	1292.4	1310.2
52.5°	992.8	1070.1	1164.0	1230.6	1255.5
55°	919.1	1001.1	1097.4	1166.4	1190.2
57.5°	850.1	928.6	1032.0	1101.0	1130.7
60°	771.6	858.4	961.9	1036.8	1060.6
62.5°	697.9	785.9	892.9	970.2	997.5
65°	621.8	711.0	821.6	902.4	927.4
67.5°	550.5	638.5	751.4	831.1	863.2
70°	472.0	564.8	680.1	762.1	789.5
72.5°	394.7	491.0	608.7	696.7	727.6
75°	323.4	417.3	539.8	625.4	659.9
77.5°	254.4	349.6	473.2	561.2	590.9
80°	185.5	285.4	411.4	498.2	526.7
82.5°	122.5	227.1	351.9	438.7	469.6
85°	71.3	177.2	299.6	382.8	416.1
87.5°	30.9	134.4	250.9	332.9	360.3
90°	1.2	99.9	211.6	291.3	319.8
92.5°	1.2	97.5	206.9	285.4	312.7
95°	1.2	95.1	205.7	281.8	309.1
97.5°	1.2	93.9	203.3	279.4	305.6
100°	1.2	90.4	199.7	274.7	300.8
102.5°	1.2	85.6	196.2	269.9	294.9
105°	1.2	82.0	192.6	265.1	288.9
107.5°	1.2	78.5	186.7	259.2	283.0
110°	1.2	74.9	177.2	253.2	277.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	73.7	170.0	244.9	269.9
115°	2.4	71.3	162.9	235.4	261.6
117.5°	2.4	70.1	156.9	225.9	253.2
120°	2.4	66.6	151.0	217.6	243.7
122.5°	2.4	63.0	145.1	209.3	235.4
125°	2.4	60.6	139.1	200.9	225.9
127.5°	2.4	57.1	134.4	192.6	215.2
130°	2.4	54.7	128.4	183.1	205.7
132.5°	2.4	51.1	122.5	173.6	195.0
135°	2.4	47.6	116.5	165.3	185.5
137.5°	2.4	42.8	109.4	155.8	174.8
140°	2.4	39.2	99.9	146.2	164.1
142.5°	2.4	36.9	90.4	135.5	152.2
145°	2.4	34.5	80.8	124.8	140.3
147.5°	2.4	32.1	72.5	114.1	128.4
150°	2.4	28.5	64.2	104.6	116.5
152.5°	3.6	26.2	57.1	92.7	104.6
155°	3.6	23.8	49.9	79.7	92.7
157.5°	3.6	21.4	42.8	66.6	80.8
160°	3.6	19.0	36.9	54.7	69.0
162.5°	3.6	17.8	32.1	45.2	58.3
165°	3.6	15.5	27.3	36.9	47.6
167.5°	3.6	11.9	22.6	28.5	39.2
170°	3.6	9.5	17.8	20.2	29.7
172.5°	3.6	7.1	13.1	14.3	15.5
175°	3.6	5.9	8.3	8.3	4.8
177.5°	3.6	4.8	4.8	4.8	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)