

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: P566979

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566979  
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-L935-CD  
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

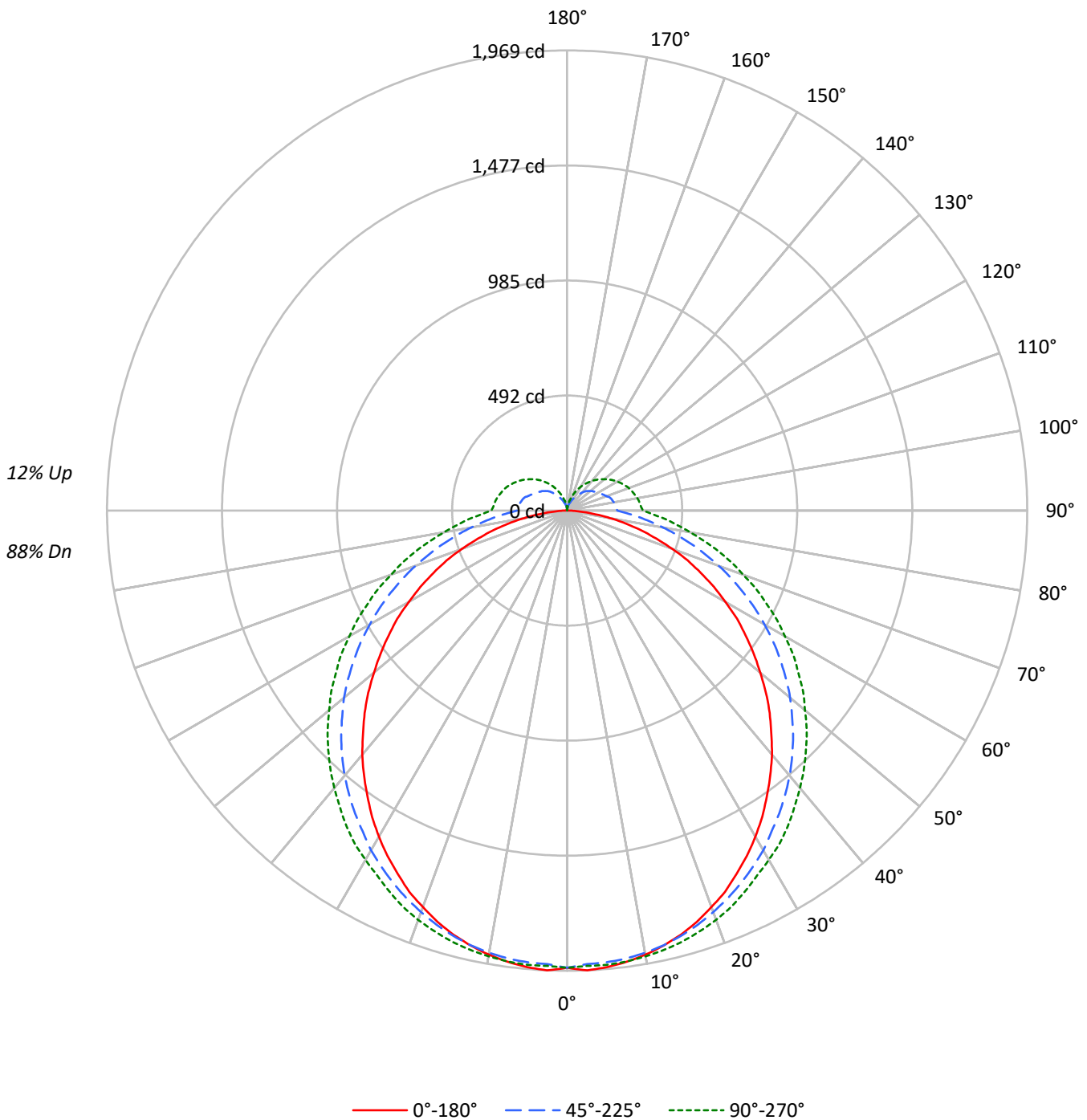
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7042.0 lumens  
Efficiency: N/A  
Efficacy: 109.3 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 (A<sub>in</sub>): 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°	21054	21054	21054
5°	21110	20085	19921
10°	20936	19293	18941
15°	20705	18506	18049
20°	20370	17712	17185
25°	19978	16939	16301
30°	19554	16184	15488
35°	19030	15392	14757
40°	18517	14651	13963
45°	17905	13870	13206
50°	17199	13063	12401
55°	16511	12178	11604
60°	15714	11246	10747
65°	14746	10233	9860
70°	13518	9136	8899
75°	11805	7936	7980
80°	9431	6734	6926
85°	6057	5581	6047



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.7	2.6
10°-20°	534.2	7.6
20°-30°	812.6	11.5
30°-40°	988.0	14.0
40°-50°	1045.3	14.8
50°-60°	979.8	13.9
60°-70°	806.1	11.4
70°-80°	557.7	7.9
80°-90°	310.2	4.4
90°-100°	204.3	2.9
100°-110°	183.2	2.6
110°-120°	151.7	2.2
120°-130°	117.2	1.7
130°-140°	83.0	1.2
140°-150°	50.1	0.7
150°-160°	24.0	0.3
160°-170°	7.9	0.1
170°-180°	1.0	0.0
0°-30°	1532.4	21.8
0°-40°	2520.5	35.8
0°-60°	4545.6	64.6
0°-90°	6219.6	88.3
90°-120°	539.2	7.7
90°-150°	789.5	11.2
90°-180°	822.0	11.7
0°-180°	7042.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1956	1956	1956	1956	1956	
5°	1961	1957	1940	1956	1951	186
15°	1879	1885	1884	1909	1909	530
25°	1715	1739	1759	1798	1799	790
35°	1490	1530	1582	1633	1647	933
45°	1225	1289	1368	1429	1446	944
55°	932	1015	1113	1183	1207	834
65°	631	721	833	915	941	625
75°	328	423	548	634	669	348
85°	72	180	304	388	422	83
90°	1	101	215	295	324	5
95°	1	96	209	286	314	1
105°	1	83	195	269	293	1
115°	2	72	165	239	265	2
125°	2	62	141	204	229	2
135°	2	48	118	168	188	2
145°	2	35	82	127	142	2
155°	4	24	51	81	94	2
165°	4	16	28	37	48	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



TEST NUMBER: P566979

CATALOG NUMBER: 4SNX-90HL-LW-UNV-L935-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1956.0	1956.0	1956.0	1956.0	1956.0
2.5°	1969.3	1963.2	1942.7	1956.0	1950.0
5°	1960.8	1957.2	1940.3	1956.0	1951.2
7.5°	1947.6	1946.3	1933.1	1951.2	1946.3
10°	1929.5	1931.9	1921.0	1940.3	1936.7
12.5°	1906.6	1910.2	1905.3	1927.1	1924.6
15°	1878.8	1884.8	1883.6	1909.0	1909.0
17.5°	1845.1	1853.5	1858.3	1887.3	1887.3
20°	1805.3	1818.5	1828.2	1859.5	1864.3
22.5°	1765.5	1781.1	1795.6	1828.2	1835.4
25°	1714.8	1738.9	1759.4	1798.0	1799.2
27.5°	1665.4	1691.9	1719.6	1757.0	1760.6
30°	1611.1	1644.9	1678.6	1714.8	1725.7
32.5°	1553.2	1590.6	1628.0	1676.2	1690.7
35°	1490.5	1530.3	1582.2	1632.8	1647.3
37.5°	1427.8	1472.4	1532.7	1584.6	1597.8
40°	1363.9	1413.3	1480.9	1533.9	1549.6
42.5°	1292.7	1353.0	1425.4	1482.1	1500.2
45°	1225.2	1289.1	1367.5	1429.0	1445.9
47.5°	1154.1	1221.6	1306.0	1371.1	1390.4
50°	1078.1	1155.3	1245.7	1310.8	1328.9
52.5°	1006.9	1085.3	1180.6	1248.1	1273.4
55°	932.2	1015.4	1113.1	1183.0	1207.1
57.5°	862.2	941.8	1046.7	1116.7	1146.8
60°	782.6	870.7	975.6	1051.6	1075.7
62.5°	707.9	797.1	905.6	984.0	1011.8
65°	630.7	721.1	833.3	915.3	940.6
67.5°	558.3	647.6	762.1	842.9	875.5
70°	478.7	572.8	689.8	773.0	800.7
72.5°	400.4	498.0	617.4	706.7	738.0
75°	328.0	423.3	547.5	634.3	669.3
77.5°	258.1	354.5	480.0	569.2	599.3
80°	188.1	289.4	417.2	505.3	534.2
82.5°	124.2	230.3	357.0	445.0	476.3
85°	72.4	179.7	303.9	388.3	422.1
87.5°	31.4	136.3	254.4	337.7	365.4
90°	1.2	101.3	214.7	295.4	324.4
92.5°	1.2	98.9	209.8	289.4	317.2
95°	1.2	96.5	208.6	285.8	313.5
97.5°	1.2	95.3	206.2	283.4	309.9
100°	1.2	91.6	202.6	278.6	305.1
102.5°	1.2	86.8	199.0	273.7	299.1
105°	1.2	83.2	195.4	268.9	293.0
107.5°	1.2	79.6	189.3	262.9	287.0
110°	1.2	76.0	179.7	256.9	281.0



TEST NUMBER: P566979

CATALOG NUMBER: 4SNX-90HL-LW-UNV-L935-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	74.8	172.4	248.4	273.7
115°	2.4	72.4	165.2	238.8	265.3
117.5°	2.4	71.1	159.2	229.1	256.9
120°	2.4	67.5	153.2	220.7	247.2
122.5°	2.4	63.9	147.1	212.2	238.8
125°	2.4	61.5	141.1	203.8	229.1
127.5°	2.4	57.9	136.3	195.4	218.3
130°	2.4	55.5	130.2	185.7	208.6
132.5°	2.4	51.9	124.2	176.1	197.8
135°	2.4	48.2	118.2	167.6	188.1
137.5°	2.4	43.4	110.9	158.0	177.3
140°	2.4	39.8	101.3	148.3	166.4
142.5°	2.4	37.4	91.6	137.5	154.4
145°	2.4	35.0	82.0	126.6	142.3
147.5°	2.4	32.6	73.6	115.8	130.2
150°	2.4	28.9	65.1	106.1	118.2
152.5°	3.6	26.5	57.9	94.1	106.1
155°	3.6	24.1	50.6	80.8	94.1
157.5°	3.6	21.7	43.4	67.5	82.0
160°	3.6	19.3	37.4	55.5	69.9
162.5°	3.6	18.1	32.6	45.8	59.1
165°	3.6	15.7	27.7	37.4	48.2
167.5°	3.6	12.1	22.9	28.9	39.8
170°	3.6	9.6	18.1	20.5	30.1
172.5°	3.6	7.2	13.3	14.5	15.7
175°	3.6	6.0	8.4	8.4	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)