

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: P566989

Luminaire Tested: **4SNX-90HL-SLW-UNV-L950-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566989  
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-L950-CD  
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

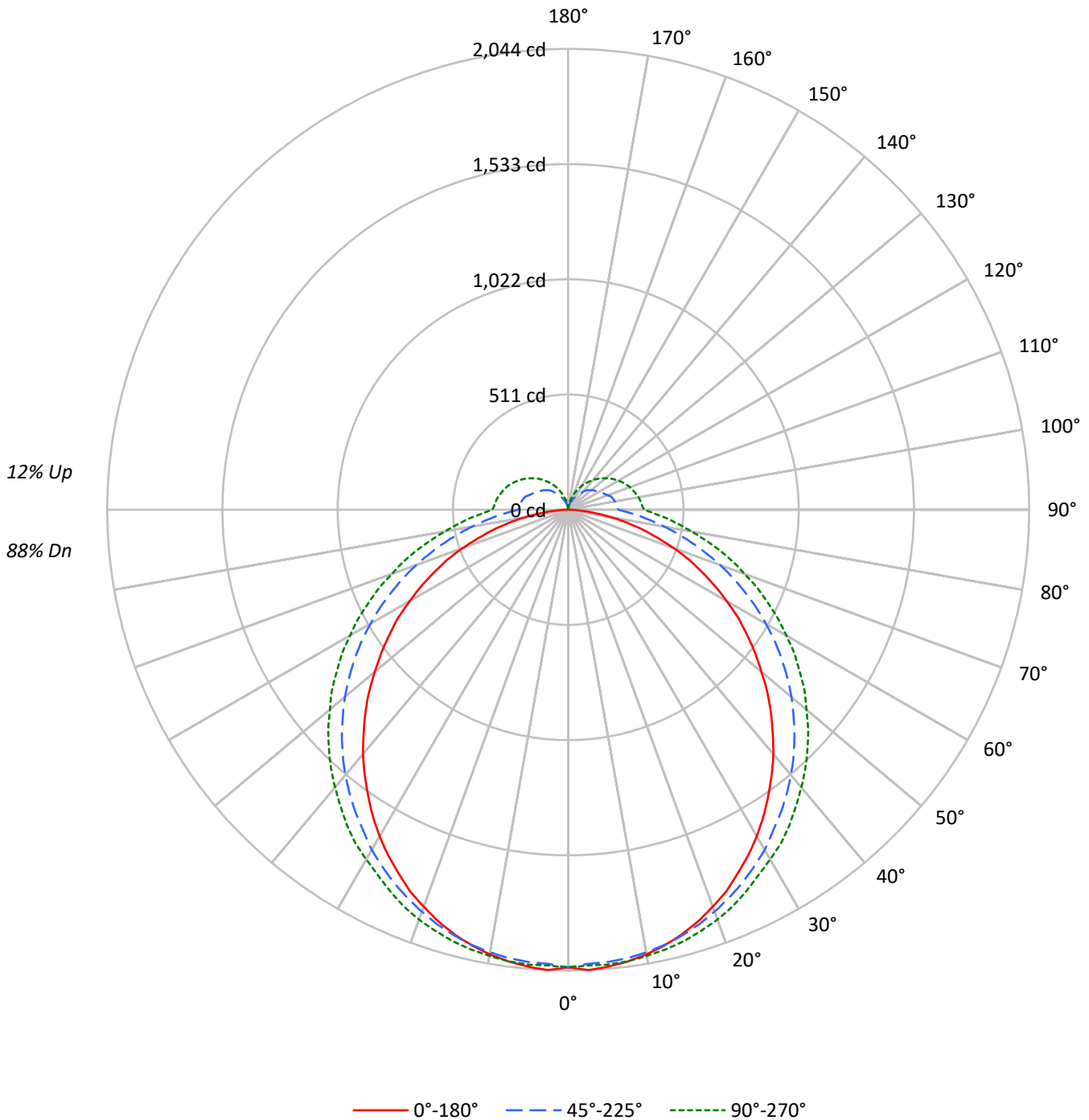
Lumens per Lamp: N/A  
Luminaire Lumens: 7308.0 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 64.4  
Input Voltage (V): NR  
Input Current (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°	21850	21850	21850
5°	21947	21292	21262
10°	21805	20872	20753
15°	21608	20419	20273
20°	21298	19923	19773
25°	20933	19426	19203
30°	20535	18926	18678
35°	20034	18367	18226
40°	19548	17857	17673
45°	18962	17291	17148
50°	18283	16688	16547
55°	17632	15983	15947
60°	16878	15220	15258
65°	15960	14350	14522
70°	14792	13367	13677
75°	13139	12238	12902
80°	10826	11116	11921
85°	7497	10115	11282



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.7	2.6
10°-20°	554.3	7.6
20°-30°	843.3	11.5
30°-40°	1025.4	14.0
40°-50°	1084.8	14.8
50°-60°	1016.9	13.9
60°-70°	836.5	11.4
70°-80°	578.8	7.9
80°-90°	321.9	4.4
90°-100°	212.0	2.9
100°-110°	190.1	2.6
110°-120°	157.4	2.2
120°-130°	121.7	1.7
130°-140°	86.1	1.2
140°-150°	51.9	0.7
150°-160°	25.0	0.3
160°-170°	8.2	0.1
170°-180°	1.0	0.0
0°-30°	1590.3	21.8
0°-40°	2615.7	35.8
0°-60°	4717.3	64.6
0°-90°	6454.6	88.3
90°-120°	559.6	7.7
90°-150°	819.3	11.2
90°-180°	853.0	11.7
0°-180°	7308.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2030	2030	2030	2030	2030	
5°	2035	2031	2014	2030	2025	193
15°	1950	1956	1955	1981	1981	550
25°	1780	1805	1826	1866	1867	820
35°	1547	1588	1642	1694	1710	968
45°	1272	1338	1419	1483	1500	980
55°	967	1054	1155	1228	1253	866
65°	654	748	865	950	976	649
75°	340	439	568	658	695	361
85°	75	186	315	403	438	86
90°	1	105	223	307	337	5
95°	1	100	216	297	325	1
105°	1	86	203	279	304	1
115°	2	75	172	248	275	2
125°	2	64	146	212	238	2
135°	2	50	123	174	195	2
145°	2	36	85	131	148	2
155°	4	25	53	84	98	2
165°	4	16	29	39	50	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°	2029.9	2029.9	2029.9	2029.9	2029.9
2.5°	2043.6	2037.4	2016.1	2029.9	2023.6
5°	2034.9	2031.1	2013.6	2029.9	2024.9
7.5°	2021.1	2019.9	2006.1	2024.9	2019.9
10°	2002.3	2004.9	1993.6	2013.6	2009.9
12.5°	1978.6	1982.3	1977.3	1999.8	1997.3
15°	1949.8	1956.0	1954.8	1981.1	1981.1
17.5°	1914.7	1923.5	1928.5	1958.5	1958.5
20°	1873.4	1887.2	1897.2	1929.8	1934.8
22.5°	1832.1	1848.4	1863.4	1897.2	1904.7
25°	1779.6	1804.6	1825.9	1865.9	1867.2
27.5°	1728.3	1755.8	1784.6	1823.4	1827.1
30°	1672.0	1707.0	1742.0	1779.6	1790.8
32.5°	1611.9	1650.7	1689.5	1739.5	1754.6
35°	1546.8	1588.1	1641.9	1694.5	1709.5
37.5°	1481.7	1528.0	1590.6	1644.4	1658.2
40°	1415.4	1466.7	1536.8	1591.9	1608.1
42.5°	1341.6	1404.1	1479.2	1538.1	1556.8
45°	1271.5	1337.8	1419.2	1483.0	1500.5
47.5°	1197.7	1267.7	1355.3	1422.9	1442.9
50°	1118.8	1198.9	1292.8	1360.3	1379.1
52.5°	1045.0	1126.3	1225.2	1295.3	1321.5
55°	967.4	1053.7	1155.1	1227.7	1252.7
57.5°	894.8	977.4	1086.3	1158.9	1190.1
60°	812.2	903.6	1012.4	1091.3	1116.3
62.5°	734.6	827.2	939.9	1021.2	1050.0
65°	654.5	748.4	864.8	949.9	976.1
67.5°	579.4	672.0	790.9	874.8	908.6
70°	496.8	594.4	715.8	802.2	831.0
72.5°	415.5	516.9	640.8	733.4	765.9
75°	340.4	439.3	568.2	658.3	694.6
77.5°	267.8	367.9	498.1	590.7	622.0
80°	195.2	300.4	433.0	524.4	554.4
82.5°	128.9	239.0	370.4	461.8	494.3
85°	75.1	186.5	315.4	403.0	438.0
87.5°	32.5	141.4	264.1	350.4	379.2
90°	1.3	105.1	222.8	306.6	336.6
92.5°	1.3	102.6	217.8	300.4	329.1
95°	1.3	100.1	216.5	296.6	325.4
97.5°	1.3	98.9	214.0	294.1	321.6
100°	1.3	95.1	210.2	289.1	316.6
102.5°	1.3	90.1	206.5	284.1	310.4
105°	1.3	86.4	202.7	279.1	304.1
107.5°	1.3	82.6	196.5	272.8	297.8
110°	1.3	78.8	186.5	266.6	291.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	77.6	179.0	257.8	284.1
115°	2.5	75.1	171.5	247.8	275.3
117.5°	2.5	73.8	165.2	237.8	266.6
120°	2.5	70.1	158.9	229.0	256.6
122.5°	2.5	66.3	152.7	220.3	247.8
125°	2.5	63.8	146.4	211.5	237.8
127.5°	2.5	60.1	141.4	202.7	226.5
130°	2.5	57.6	135.2	192.7	216.5
132.5°	2.5	53.8	128.9	182.7	205.2
135°	2.5	50.1	122.6	174.0	195.2
137.5°	2.5	45.1	115.1	163.9	184.0
140°	2.5	41.3	105.1	153.9	172.7
142.5°	2.5	38.8	95.1	142.7	160.2
145°	2.5	36.3	85.1	131.4	147.7
147.5°	2.5	33.8	76.3	120.1	135.2
150°	2.5	30.0	67.6	110.1	122.6
152.5°	3.8	27.5	60.1	97.6	110.1
155°	3.8	25.0	52.6	83.8	97.6
157.5°	3.8	22.5	45.1	70.1	85.1
160°	3.8	20.0	38.8	57.6	72.6
162.5°	3.8	18.8	33.8	47.6	61.3
165°	3.8	16.3	28.8	38.8	50.1
167.5°	3.8	12.5	23.8	30.0	41.3
170°	3.8	10.0	18.8	21.3	31.3
172.5°	3.8	7.5	13.8	15.0	16.3
175°	3.8	6.3	8.8	8.8	5.0
177.5°	3.8	5.0	5.0	5.0	2.5
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)