

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: P566975

Luminaire Tested: **4SNX-90HL-LW-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566975  
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-L835-CD  
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

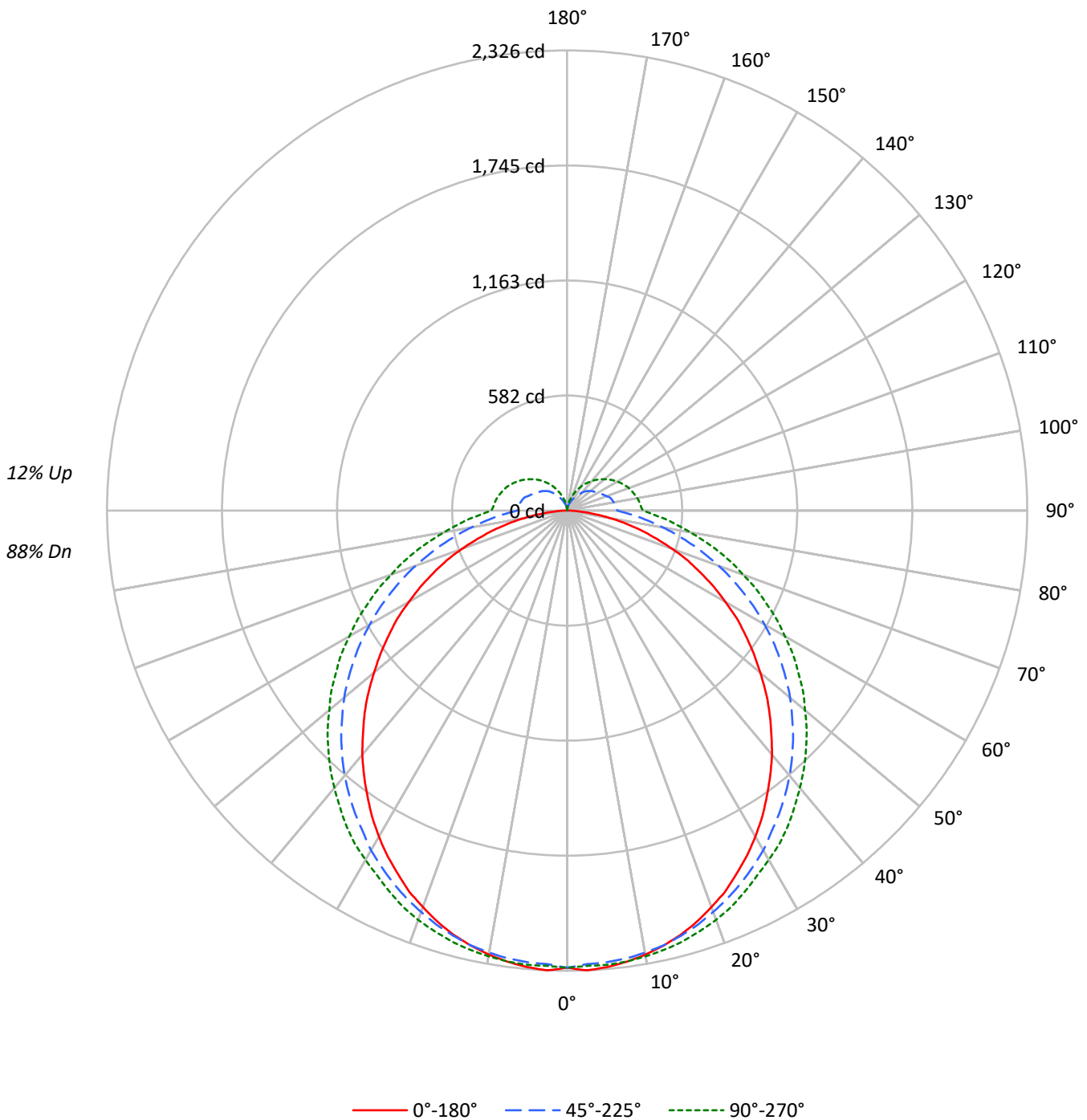
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8318.0 lumens  
Efficiency: N/A  
Efficacy: 129.2 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°	24869	24869	24869
5°	24935	23724	23530
10°	24729	22789	22373
15°	24458	21861	21319
20°	24061	20921	20300
25°	23598	20009	19254
30°	23097	19116	18294
35°	22479	18180	17431
40°	21872	17305	16493
45°	21149	16383	15599
50°	20315	15429	14648
55°	19503	14383	13708
60°	18563	13284	12695
65°	17418	12087	11647
70°	15969	10792	10512
75°	13943	9373	9426
80°	11141	7955	8181
85°	7153	6593	7142



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.3	2.6
10°-20°	630.9	7.6
20°-30°	959.8	11.5
30°-40°	1167.1	14.0
40°-50°	1234.7	14.8
50°-60°	1157.4	13.9
60°-70°	952.1	11.4
70°-80°	658.8	7.9
80°-90°	366.3	4.4
90°-100°	241.3	2.9
100°-110°	216.4	2.6
110°-120°	179.1	2.2
120°-130°	138.5	1.7
130°-140°	98.0	1.2
140°-150°	59.1	0.7
150°-160°	28.4	0.3
160°-170°	9.3	0.1
170°-180°	1.1	0.0
0°-30°	1810.1	21.8
0°-40°	2977.2	35.8
0°-60°	5369.3	64.6
0°-90°	7346.6	88.3
90°-120°	636.9	7.7
90°-150°	932.5	11.2
90°-180°	971.0	11.7
0°-180°	8318.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2310	2310	2310	2310	2310	
5°	2316	2312	2292	2310	2305	220
15°	2219	2226	2225	2255	2255	626
25°	2026	2054	2078	2124	2125	934
35°	1761	1808	1869	1929	1946	1102
45°	1447	1523	1615	1688	1708	1115
55°	1101	1199	1315	1397	1426	986
65°	745	852	984	1081	1111	739
75°	387	500	647	749	791	411
85°	86	212	359	459	498	98
90°	1	120	254	349	383	6
95°	1	114	246	338	370	1
105°	1	98	231	318	346	1
115°	3	86	195	282	313	2
125°	3	73	167	241	271	3
135°	3	57	140	198	222	2
145°	3	41	97	150	168	2
155°	4	28	60	95	111	2
165°	4	18	33	44	57	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2310.4	2310.4	2310.4	2310.4	2310.4
2.5°	2326.1	2319.0	2294.8	2310.4	2303.3
5°	2316.1	2311.8	2291.9	2310.4	2304.7
7.5°	2300.4	2299.0	2283.4	2304.7	2299.0
10°	2279.1	2281.9	2269.1	2291.9	2287.6
12.5°	2252.0	2256.3	2250.6	2276.2	2273.4
15°	2219.3	2226.4	2225.0	2254.9	2254.9
17.5°	2179.4	2189.3	2195.0	2229.2	2229.2
20°	2132.4	2148.0	2159.4	2196.5	2202.2
22.5°	2085.4	2103.9	2121.0	2159.4	2168.0
25°	2025.5	2054.0	2078.2	2123.8	2125.2
27.5°	1967.1	1998.5	2031.2	2075.4	2079.7
30°	1903.0	1942.9	1982.8	2025.5	2038.4
32.5°	1834.7	1878.8	1923.0	1980.0	1997.0
35°	1760.6	1807.6	1868.8	1928.7	1945.8
37.5°	1686.5	1739.2	1810.4	1871.7	1887.4
40°	1611.0	1669.4	1749.2	1811.9	1830.4
42.5°	1527.0	1598.2	1683.7	1750.6	1772.0
45°	1447.2	1522.7	1615.3	1687.9	1707.9
47.5°	1363.2	1442.9	1542.7	1619.6	1642.4
50°	1273.4	1364.6	1471.4	1548.4	1569.7
52.5°	1189.4	1282.0	1394.5	1474.3	1504.2
55°	1101.1	1199.4	1314.7	1397.4	1425.9
57.5°	1018.5	1112.5	1236.4	1319.0	1354.6
60°	924.5	1028.4	1152.4	1242.1	1270.6
62.5°	836.1	941.5	1069.7	1162.3	1195.1
65°	745.0	851.8	984.3	1081.1	1111.1
67.5°	659.5	764.9	900.2	995.7	1034.1
70°	565.5	676.6	814.8	913.1	945.8
72.5°	472.9	588.3	729.3	834.7	871.7
75°	387.4	500.0	646.7	749.2	790.6
77.5°	304.8	418.8	566.9	672.3	707.9
80°	222.2	341.9	492.9	596.8	631.0
82.5°	146.7	272.1	421.6	525.6	562.6
85°	85.5	212.2	359.0	458.7	498.5
87.5°	37.0	161.0	300.6	398.8	431.6
90°	1.4	119.7	253.5	349.0	383.2
92.5°	1.4	116.8	247.9	341.9	374.6
95°	1.4	114.0	246.4	337.6	370.4
97.5°	1.4	112.5	243.6	334.7	366.1
100°	1.4	108.3	239.3	329.0	360.4
102.5°	1.4	102.6	235.0	323.3	353.3
105°	1.4	98.3	230.8	317.6	346.1
107.5°	1.4	94.0	223.6	310.5	339.0
110°	1.4	89.7	212.2	303.4	331.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	88.3	203.7	293.4	323.3
115°	2.8	85.5	195.1	282.0	313.4
117.5°	2.8	84.0	188.0	270.6	303.4
120°	2.8	79.8	180.9	260.7	292.0
122.5°	2.8	75.5	173.8	250.7	282.0
125°	2.8	72.6	166.7	240.7	270.6
127.5°	2.8	68.4	161.0	230.8	257.8
130°	2.8	65.5	153.8	219.4	246.4
132.5°	2.8	61.3	146.7	208.0	233.6
135°	2.8	57.0	139.6	198.0	222.2
137.5°	2.8	51.3	131.0	186.6	209.4
140°	2.8	47.0	119.7	175.2	196.6
142.5°	2.8	44.2	108.3	162.4	182.3
145°	2.8	41.3	96.9	149.6	168.1
147.5°	2.8	38.5	86.9	136.7	153.8
150°	2.8	34.2	76.9	125.3	139.6
152.5°	4.3	31.3	68.4	111.1	125.3
155°	4.3	28.5	59.8	95.4	111.1
157.5°	4.3	25.6	51.3	79.8	96.9
160°	4.3	22.8	44.2	65.5	82.6
162.5°	4.3	21.4	38.5	54.1	69.8
165°	4.3	18.5	32.8	44.2	57.0
167.5°	4.3	14.2	27.1	34.2	47.0
170°	4.3	11.4	21.4	24.2	35.6
172.5°	4.3	8.5	15.7	17.1	18.5
175°	4.3	7.1	10.0	10.0	5.7
177.5°	4.3	5.7	5.7	5.7	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)