

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: P566951

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

Issue Date: 9/15/2022



**Test Information**

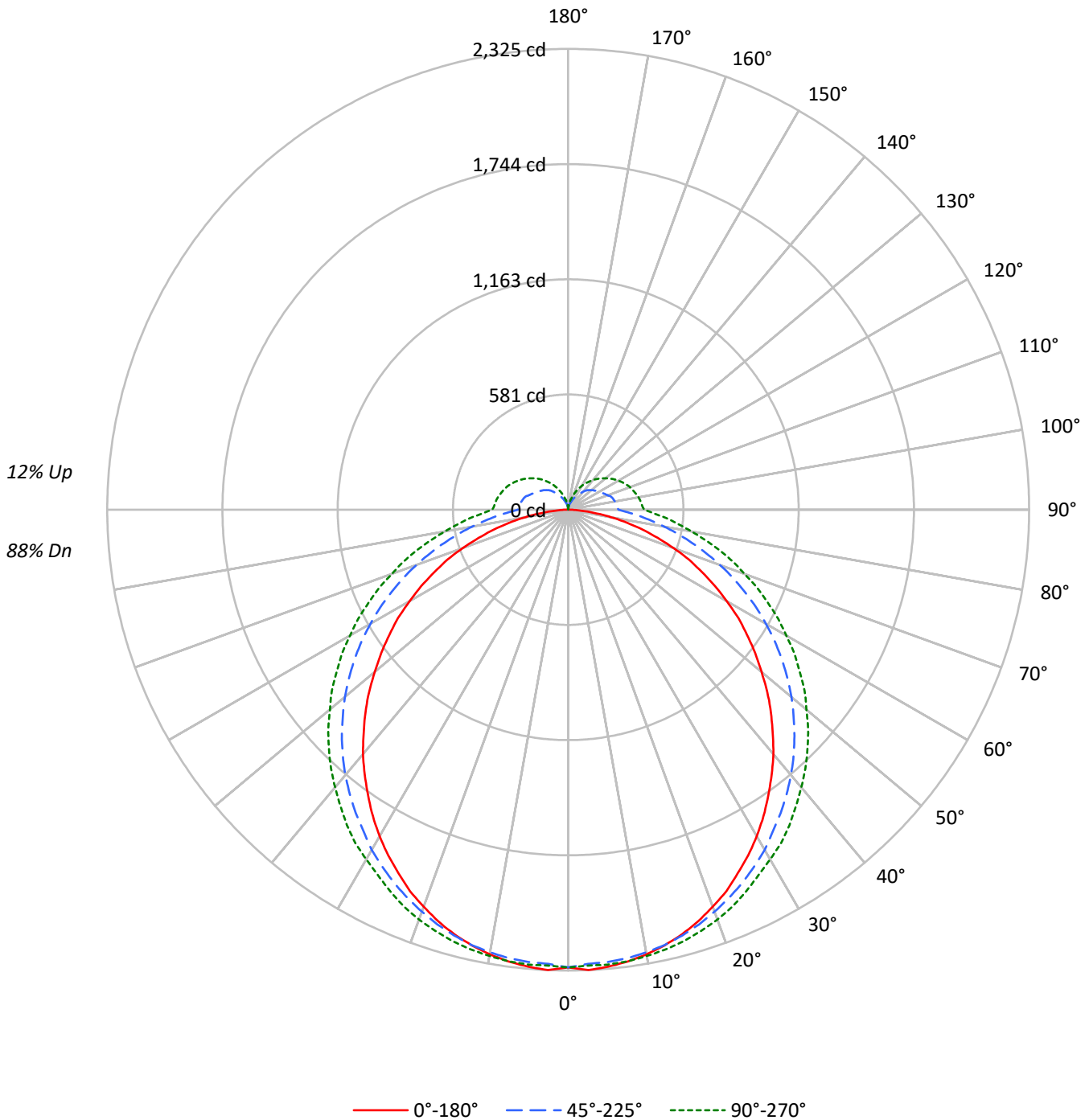
Test Method: LM-79-08  
Report Number: P566951  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-90HL-FDL-UNV-L835-CD  
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8313.0 lumens  
Efficiency: N/A  
Efficacy: 129.1 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: 0.04')  
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°	24854	24854	24854
5°	24988	24481	24530
10°	24850	24250	24276
15°	24647	23975	24039
20°	24319	23643	23768
25°	23926	23307	23407
30°	23498	22969	23097
35°	22953	22564	22882
40°	22428	22228	22550
45°	21789	21839	22271
50°	21051	21427	21917
55°	20348	20918	21601
60°	19537	20375	21212
65°	18548	19751	20835
70°	17293	19067	20406
75°	15501	18318	20258
80°	12999	17855	20095
85°	9425	18221	21180



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.2	2.6
10°-20°	630.6	7.6
20°-30°	959.3	11.5
30°-40°	1166.4	14.0
40°-50°	1234.0	14.8
50°-60°	1156.7	13.9
60°-70°	951.6	11.4
70°-80°	658.4	7.9
80°-90°	366.1	4.4
90°-100°	241.2	2.9
100°-110°	216.3	2.6
110°-120°	179.0	2.2
120°-130°	138.4	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°	1809.0	21.8
0°-40°	2975.4	35.8
0°-60°	5366.1	64.6
0°-90°	7342.2	88.3
90°-120°	636.5	7.7
90°-150°	932.0	11.2
90°-180°	971.0	11.7
0°-180°	8313.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2309	2309	2309	2309	2309	
5°	2315	2310	2290	2309	2303	220
15°	2218	2225	2224	2254	2254	625
25°	2024	2053	2077	2122	2124	933
35°	1760	1806	1868	1928	1945	1101
45°	1446	1522	1614	1687	1707	1115
55°	1100	1199	1314	1396	1425	985
65°	744	851	984	1080	1110	738
75°	387	500	646	749	790	411
85°	85	212	359	458	498	98
90°	1	120	253	349	383	6
95°	1	114	246	337	370	1
105°	1	98	231	318	346	1
115°	3	85	195	282	313	2
125°	3	73	167	241	270	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°	2309.0	2309.0	2309.0	2309.0	2309.0
2.5°	2324.7	2317.6	2293.4	2309.0	2301.9
5°	2314.7	2310.5	2290.5	2309.0	2303.3
7.5°	2299.1	2297.6	2282.0	2303.3	2297.6
10°	2277.7	2280.6	2267.7	2290.5	2286.3
12.5°	2250.7	2254.9	2249.2	2274.9	2272.0
15°	2217.9	2225.0	2223.6	2253.5	2253.5
17.5°	2178.1	2188.0	2193.7	2227.9	2227.9
20°	2131.1	2146.7	2158.1	2195.1	2200.8
22.5°	2084.1	2102.6	2119.7	2158.1	2166.7
25°	2024.3	2052.8	2077.0	2122.5	2124.0
27.5°	1965.9	1997.3	2030.0	2074.1	2078.4
30°	1901.9	1941.7	1981.6	2024.3	2037.1
32.5°	1833.6	1877.7	1921.8	1978.8	1995.8
35°	1759.5	1806.5	1867.7	1927.5	1944.6
37.5°	1685.5	1738.2	1809.4	1870.6	1886.2
40°	1610.1	1668.4	1748.1	1810.8	1829.3
42.5°	1526.1	1597.2	1682.7	1749.6	1770.9
45°	1446.3	1521.8	1614.3	1686.9	1706.9
47.5°	1362.4	1442.1	1541.7	1618.6	1641.4
50°	1272.7	1363.8	1470.5	1547.4	1568.8
52.5°	1188.7	1281.2	1393.7	1473.4	1503.3
55°	1100.4	1198.6	1314.0	1396.5	1425.0
57.5°	1017.9	1111.8	1235.7	1318.2	1353.8
60°	923.9	1027.8	1151.7	1241.4	1269.8
62.5°	835.6	941.0	1069.1	1161.6	1194.4
65°	744.5	851.3	983.7	1080.5	1110.4
67.5°	659.1	764.5	899.7	995.1	1033.5
70°	565.2	676.2	814.3	912.5	945.3
72.5°	472.6	587.9	728.9	834.2	871.2
75°	387.2	499.7	646.3	748.8	790.1
77.5°	304.6	418.5	566.6	671.9	707.5
80°	222.1	341.7	492.6	596.5	630.6
82.5°	146.6	271.9	421.4	525.3	562.3
85°	85.4	212.1	358.7	458.4	498.2
87.5°	37.0	160.9	300.4	398.6	431.3
90°	1.4	119.6	253.4	348.8	382.9
92.5°	1.4	116.7	247.7	341.7	374.4
95°	1.4	113.9	246.3	337.4	370.1
97.5°	1.4	112.5	243.4	334.5	365.9
100°	1.4	108.2	239.2	328.8	360.2
102.5°	1.4	102.5	234.9	323.2	353.0
105°	1.4	98.2	230.6	317.5	345.9
107.5°	1.4	94.0	223.5	310.3	338.8
110°	1.4	89.7	212.1	303.2	331.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	88.3	203.6	293.3	323.2
115°	2.8	85.4	195.0	281.9	313.2
117.5°	2.8	84.0	187.9	270.5	303.2
120°	2.8	79.7	180.8	260.5	291.8
122.5°	2.8	75.4	173.7	250.5	281.9
125°	2.8	72.6	166.6	240.6	270.5
127.5°	2.8	68.3	160.9	230.6	257.7
130°	2.8	65.5	153.7	219.2	246.3
132.5°	2.8	61.2	146.6	207.8	233.5
135°	2.8	56.9	139.5	197.9	222.1
137.5°	2.8	51.2	131.0	186.5	209.3
140°	2.8	47.0	119.6	175.1	196.5
142.5°	2.8	44.1	108.2	162.3	182.2
145°	2.8	41.3	96.8	149.5	168.0
147.5°	2.8	38.4	86.8	136.7	153.7
150°	2.8	34.2	76.9	125.3	139.5
152.5°	4.3	31.3	68.3	111.0	125.3
155°	4.3	28.5	59.8	95.4	111.0
157.5°	4.3	25.6	51.2	79.7	96.8
160°	4.3	22.8	44.1	65.5	82.6
162.5°	4.3	21.4	38.4	54.1	69.8
165°	4.3	18.5	32.7	44.1	56.9
167.5°	4.3	14.2	27.0	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)