

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: P566966

Luminaire Tested: **4SNX-90HL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566966  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-90HL-LN-UNV-L830-CD  
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

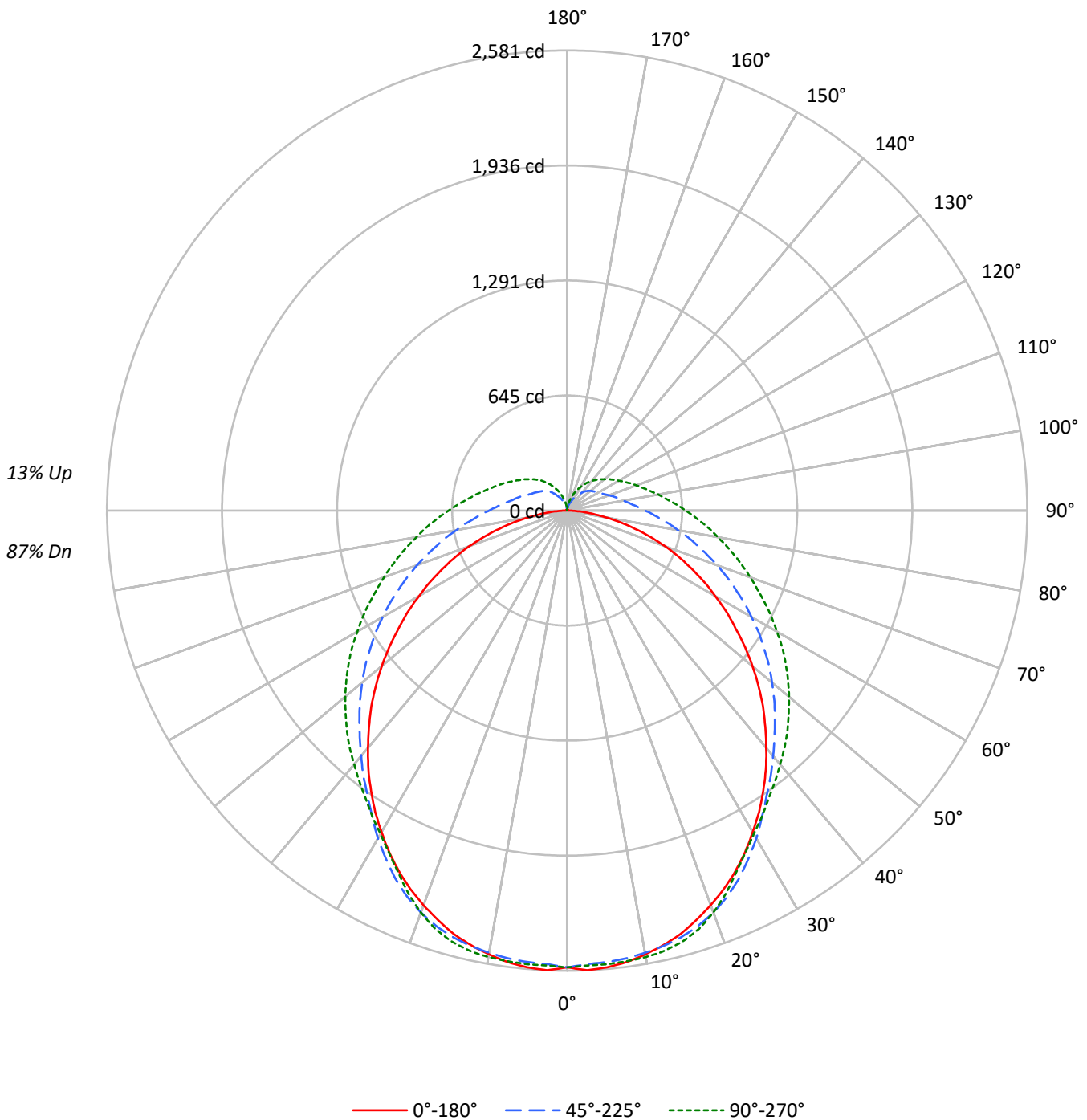
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9249.0 lumens  
Efficiency: N/A  
Efficacy: 143.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
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	50	30	10	0	
RCR																						
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87				
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68				
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56				
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46				
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39				
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34				
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29				
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26				
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23				
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21				
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	27578	27578	27578
5°	27685	26311	26078
10°	27425	25290	24874
15°	27096	24326	23661
20°	26575	23244	22115
25°	26014	21935	20301
30°	25273	20469	18787
35°	24485	18976	17657
40°	23588	17778	16743
45°	22708	16715	15954
50°	21663	15736	15159
55°	20442	14753	14381
60°	19268	13773	13567
65°	17963	12786	12821
70°	16472	11858	12147
75°	14166	10955	11592
80°	11166	10173	11120
85°	7479	9617	10851



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.4	2.6
10°-20°	699.8	7.6
20°-30°	1042.1	11.3
30°-40°	1229.6	13.3
40°-50°	1282.3	13.9
50°-60°	1205.0	13.0
60°-70°	1017.7	11.0
70°-80°	768.9	8.3
80°-90°	530.0	5.7
90°-100°	370.9	4.0
100°-110°	276.8	3.0
110°-120°	208.7	2.3
120°-130°	155.6	1.7
130°-140°	109.2	1.2
140°-150°	66.0	0.7
150°-160°	31.6	0.3
160°-170°	10.1	0.1
170°-180°	1.2	0.0
0°-30°	1985.3	21.5
0°-40°	3214.8	34.8
0°-60°	5702.2	61.7
0°-90°	8018.8	86.7
90°-120°	856.4	9.3
90°-150°	1187.3	12.8
90°-180°	1230.0	13.3
0°-180°	9249.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2562	2562	2562	2562	2562	
5°	2572	2567	2542	2561	2554	244
15°	2459	2470	2476	2507	2503	692
25°	2233	2278	2278	2258	2241	1027
35°	1918	1988	1951	1966	1971	1199
45°	1554	1631	1648	1715	1747	1197
55°	1154	1253	1348	1457	1496	1036
65°	768	891	1041	1178	1223	763
75°	394	546	756	914	972	419
85°	89	281	524	696	757	100
90°	2	199	438	605	665	6
95°	2	155	370	530	585	1
105°	3	111	285	414	461	3
115°	3	96	221	329	372	3
125°	5	82	187	270	304	4
135°	5	63	155	220	246	4
145°	6	46	108	168	188	4
155°	6	30	66	107	124	3
165°	8	19	34	47	63	2
175°	8	8	9	9	5	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2581.0	2574.7	2546.5	2562.1	2554.3
5°	2571.6	2566.8	2541.8	2560.6	2554.3
7.5°	2554.3	2552.7	2533.9	2555.9	2549.6
10°	2527.6	2532.4	2518.2	2548.0	2543.3
12.5°	2496.3	2505.7	2501.0	2533.9	2529.2
15°	2458.7	2469.6	2475.9	2507.3	2502.6
17.5°	2408.5	2428.9	2443.0	2468.1	2460.2
20°	2355.2	2383.4	2399.1	2411.6	2399.1
22.5°	2297.1	2334.8	2344.2	2337.9	2325.4
25°	2232.9	2278.3	2278.3	2257.9	2240.7
27.5°	2160.7	2217.2	2201.5	2178.0	2163.9
30°	2082.3	2149.8	2123.1	2096.4	2093.3
32.5°	2003.9	2074.5	2035.3	2029.0	2033.7
35°	1917.7	1988.2	1950.6	1966.3	1971.0
37.5°	1831.4	1902.0	1876.9	1900.4	1914.6
40°	1737.4	1812.6	1797.0	1839.3	1858.1
42.5°	1644.9	1723.3	1721.7	1776.6	1804.8
45°	1553.9	1630.7	1648.0	1715.4	1746.8
47.5°	1455.1	1533.5	1575.9	1654.3	1685.6
50°	1357.9	1442.6	1500.6	1588.4	1624.5
52.5°	1257.6	1346.9	1426.9	1524.1	1561.7
55°	1154.1	1252.8	1348.5	1456.7	1495.9
57.5°	1061.5	1161.9	1274.8	1386.1	1431.6
60°	959.6	1071.0	1194.8	1312.4	1357.9
62.5°	867.1	981.6	1119.6	1243.4	1292.0
65°	768.3	890.6	1041.2	1177.6	1223.1
67.5°	677.4	802.8	967.5	1105.5	1155.6
70°	583.3	716.6	895.3	1041.2	1092.9
72.5°	486.1	627.2	823.2	978.4	1031.8
75°	393.6	545.7	755.8	914.2	972.2
77.5°	307.3	467.3	694.6	857.7	914.2
80°	222.7	396.7	630.3	799.7	857.7
82.5°	147.4	335.6	578.6	747.9	809.1
85°	89.4	280.7	523.7	696.2	757.4
87.5°	40.8	235.2	479.8	650.7	710.3
90°	1.6	199.1	437.5	605.3	664.8
92.5°	1.6	174.1	403.0	566.1	624.1
95°	1.6	155.2	370.1	530.0	584.9
97.5°	1.6	142.7	345.0	495.5	548.8
100°	1.6	130.1	319.9	464.1	519.0
102.5°	3.1	119.2	301.1	435.9	487.7
105°	3.1	111.3	285.4	414.0	461.0
107.5°	3.1	106.6	268.1	392.0	435.9
110°	3.1	101.9	249.3	370.1	414.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	98.8	235.2	351.2	393.6
115°	3.1	95.6	221.1	329.3	371.6
117.5°	3.1	94.1	213.3	312.0	352.8
120°	4.7	89.4	203.8	296.4	335.6
122.5°	4.7	84.7	194.4	283.8	318.3
125°	4.7	81.5	186.6	269.7	304.2
127.5°	4.7	76.8	178.8	257.2	288.5
130°	4.7	72.1	172.5	244.6	274.4
132.5°	4.7	67.4	164.6	232.1	260.3
135°	4.7	62.7	155.2	219.5	246.2
137.5°	4.7	58.0	145.8	207.0	232.1
140°	4.7	53.3	133.3	194.4	218.0
142.5°	4.7	48.6	120.7	181.9	202.3
145°	6.3	45.5	108.2	167.8	188.2
147.5°	6.3	40.8	95.6	153.7	170.9
150°	6.3	37.6	86.2	139.6	155.2
152.5°	6.3	32.9	76.8	123.9	139.6
155°	6.3	29.8	65.9	106.6	123.9
157.5°	6.3	26.7	56.4	89.4	108.2
160°	6.3	25.1	48.6	73.7	92.5
162.5°	7.8	22.0	40.8	59.6	76.8
165°	7.8	18.8	34.5	47.0	62.7
167.5°	7.8	15.7	28.2	36.1	48.6
170°	7.8	12.5	22.0	25.1	37.6
172.5°	7.8	9.4	15.7	17.2	18.8
175°	7.8	7.8	9.4	9.4	4.7
177.5°	7.8	7.8	6.3	4.7	1.6
180°	4.7	4.7	4.7	4.7	4.7

(END OF REPORT)