

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: P566870

Luminaire Tested: **4SNX-84HL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566870  
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-84HL-LN-UNV-L830-CD  
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

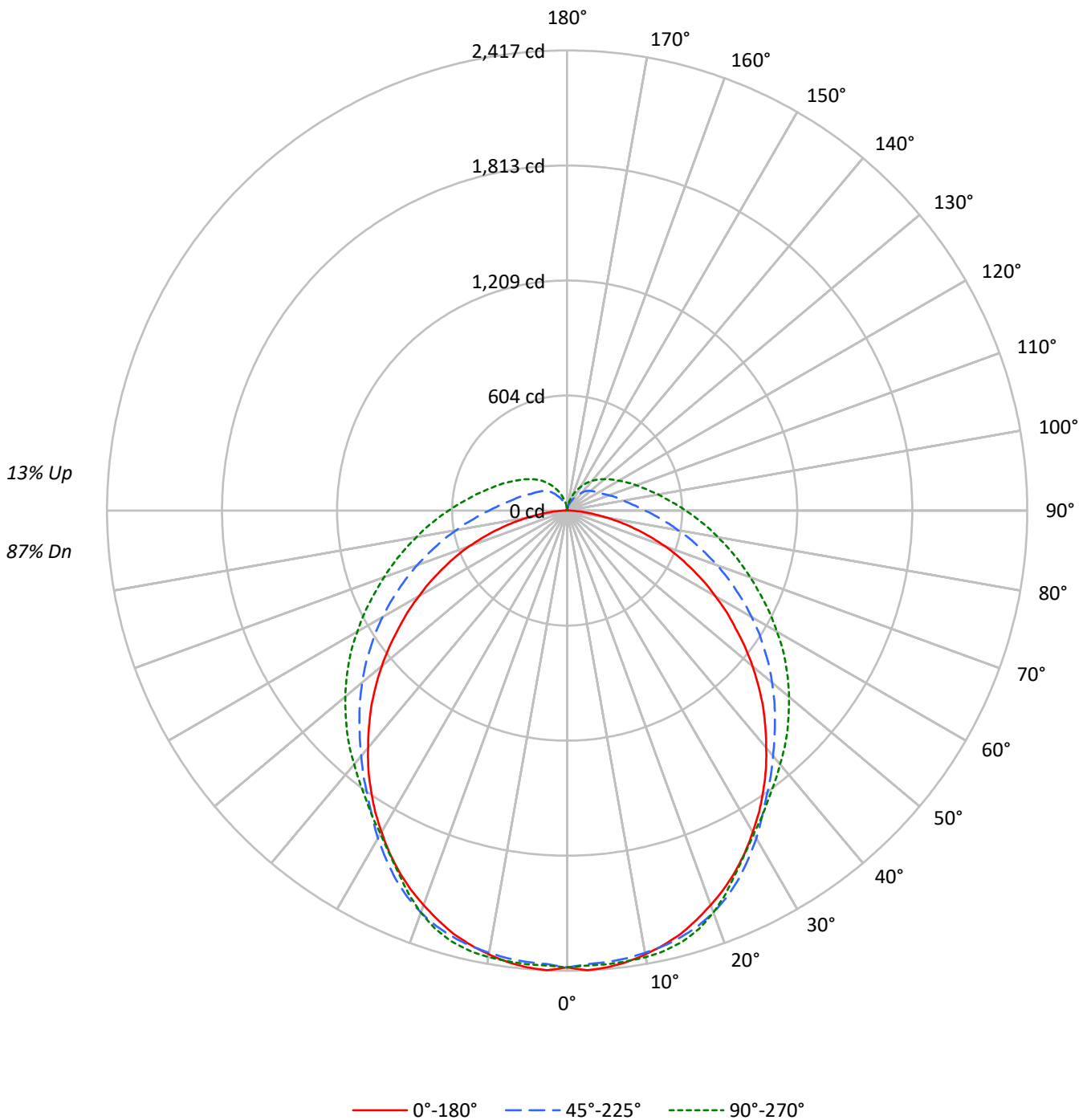
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8661.0 lumens  
Efficiency: N/A  
Efficacy: 149.6 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): 57.9  
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	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°	25826	25826	25826
5°	25925	24638	24420
10°	25683	23682	23293
15°	25373	22779	22157
20°	24885	21766	20709
25°	24360	20541	19010
30°	23666	19167	17592
35°	22928	17770	16535
40°	22088	16647	15679
45°	21264	15652	14940
50°	20286	14735	14195
55°	19142	13816	13466
60°	18043	12898	12705
65°	16822	11973	12006
70°	15424	11104	11374
75°	13267	10258	10855
80°	10454	9527	10414
85°	7002	9006	10161



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.9	2.6
10°-20°	655.3	7.6
20°-30°	975.8	11.3
30°-40°	1151.4	13.3
40°-50°	1200.8	13.9
50°-60°	1128.4	13.0
60°-70°	953.0	11.0
70°-80°	720.0	8.3
80°-90°	496.3	5.7
90°-100°	347.3	4.0
100°-110°	259.2	3.0
110°-120°	195.4	2.3
120°-130°	145.7	1.7
130°-140°	102.3	1.2
140°-150°	61.8	0.7
150°-160°	29.6	0.3
160°-170°	9.5	0.1
170°-180°	1.1	0.0
0°-30°	1859.0	21.5
0°-40°	3010.5	34.8
0°-60°	5339.7	61.7
0°-90°	7509.1	86.7
90°-120°	801.9	9.3
90°-150°	1111.8	12.8
90°-180°	1152.0	13.3
0°-180°	8661.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2399	2399	2399	2399	2399	
5°	2408	2404	2380	2398	2392	229
15°	2302	2313	2318	2348	2344	648
25°	2091	2134	2134	2114	2098	962
35°	1796	1862	1827	1841	1846	1123
45°	1455	1527	1543	1606	1636	1121
55°	1081	1173	1263	1364	1401	970
65°	720	834	975	1103	1145	714
75°	369	511	708	856	910	392
85°	84	263	490	652	709	94
90°	2	186	410	567	623	6
95°	2	145	346	496	548	1
105°	3	104	267	388	432	3
115°	3	90	207	308	348	3
125°	4	76	175	253	285	4
135°	4	59	145	206	230	3
145°	6	43	101	157	176	3
155°	6	28	62	100	116	3
165°	7	18	32	44	59	2
175°	7	7	9	9	4	1
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2399.3	2399.3	2399.3	2399.3	2399.3
2.5°	2416.9	2411.0	2384.6	2399.3	2391.9
5°	2408.1	2403.7	2380.2	2397.8	2391.9
7.5°	2391.9	2390.4	2372.8	2393.4	2387.5
10°	2367.0	2371.4	2358.1	2386.0	2381.6
12.5°	2337.6	2346.4	2342.0	2372.8	2368.4
15°	2302.3	2312.6	2318.5	2347.9	2343.5
17.5°	2255.4	2274.4	2287.7	2311.2	2303.8
20°	2205.4	2231.9	2246.6	2258.3	2246.6
22.5°	2151.1	2186.3	2195.2	2189.3	2177.5
25°	2090.9	2133.5	2133.5	2114.4	2098.2
27.5°	2023.4	2076.2	2061.5	2039.5	2026.3
30°	1949.9	2013.1	1988.1	1963.2	1960.2
32.5°	1876.5	1942.6	1905.9	1900.0	1904.4
35°	1795.8	1861.8	1826.6	1841.3	1845.7
37.5°	1715.0	1781.1	1757.6	1779.6	1792.8
40°	1626.9	1697.4	1682.7	1722.4	1740.0
42.5°	1540.3	1613.7	1612.2	1663.6	1690.1
45°	1455.1	1527.1	1543.2	1606.4	1635.7
47.5°	1362.6	1436.0	1475.7	1549.1	1578.5
50°	1271.6	1350.9	1405.2	1487.4	1521.2
52.5°	1177.6	1261.3	1336.2	1427.2	1462.5
55°	1080.7	1173.2	1262.8	1364.1	1400.8
57.5°	994.1	1088.0	1193.8	1298.0	1340.6
60°	898.6	1002.9	1118.9	1229.0	1271.6
62.5°	812.0	919.2	1048.4	1164.4	1209.9
65°	719.5	834.0	975.0	1102.7	1145.3
67.5°	634.3	751.8	906.0	1035.2	1082.2
70°	546.2	671.0	838.4	975.0	1023.4
72.5°	455.2	587.3	770.9	916.2	966.2
75°	368.6	511.0	707.7	856.0	910.4
77.5°	287.8	437.6	650.5	803.2	856.0
80°	208.5	371.5	590.3	748.9	803.2
82.5°	138.0	314.2	541.8	700.4	757.7
85°	83.7	262.8	490.4	651.9	709.2
87.5°	38.2	220.3	449.3	609.4	665.2
90°	1.5	186.5	409.7	566.8	622.6
92.5°	1.5	163.0	377.4	530.1	584.4
95°	1.5	145.4	346.5	496.3	547.7
97.5°	1.5	133.6	323.0	464.0	513.9
100°	1.5	121.9	299.5	434.6	486.0
102.5°	2.9	111.6	281.9	408.2	456.7
105°	2.9	104.3	267.2	387.6	431.7
107.5°	2.9	99.8	251.1	367.1	408.2
110°	2.9	95.4	233.5	346.5	387.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	92.5	220.3	328.9	368.6
115°	2.9	89.6	207.0	308.4	348.0
117.5°	2.9	88.1	199.7	292.2	330.4
120°	4.4	83.7	190.9	277.5	314.2
122.5°	4.4	79.3	182.1	265.8	298.1
125°	4.4	76.4	174.7	252.6	284.9
127.5°	4.4	71.9	167.4	240.8	270.2
130°	4.4	67.5	161.5	229.1	257.0
132.5°	4.4	63.1	154.2	217.3	243.7
135°	4.4	58.7	145.4	205.6	230.5
137.5°	4.4	54.3	136.6	193.8	217.3
140°	4.4	49.9	124.8	182.1	204.1
142.5°	4.4	45.5	113.1	170.3	189.4
145°	5.9	42.6	101.3	157.1	176.2
147.5°	5.9	38.2	89.6	143.9	160.0
150°	5.9	35.2	80.8	130.7	145.4
152.5°	5.9	30.8	71.9	116.0	130.7
155°	5.9	27.9	61.7	99.8	116.0
157.5°	5.9	25.0	52.9	83.7	101.3
160°	5.9	23.5	45.5	69.0	86.6
162.5°	7.3	20.6	38.2	55.8	71.9
165°	7.3	17.6	32.3	44.1	58.7
167.5°	7.3	14.7	26.4	33.8	45.5
170°	7.3	11.7	20.6	23.5	35.2
172.5°	7.3	8.8	14.7	16.2	17.6
175°	7.3	7.3	8.8	8.8	4.4
177.5°	7.3	7.3	5.9	4.4	1.5
180°	4.4	4.4	4.4	4.4	4.4

(END OF REPORT)