

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: P566873

Luminaire Tested: **4SNX-84HL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566873  
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-L850-CD  
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

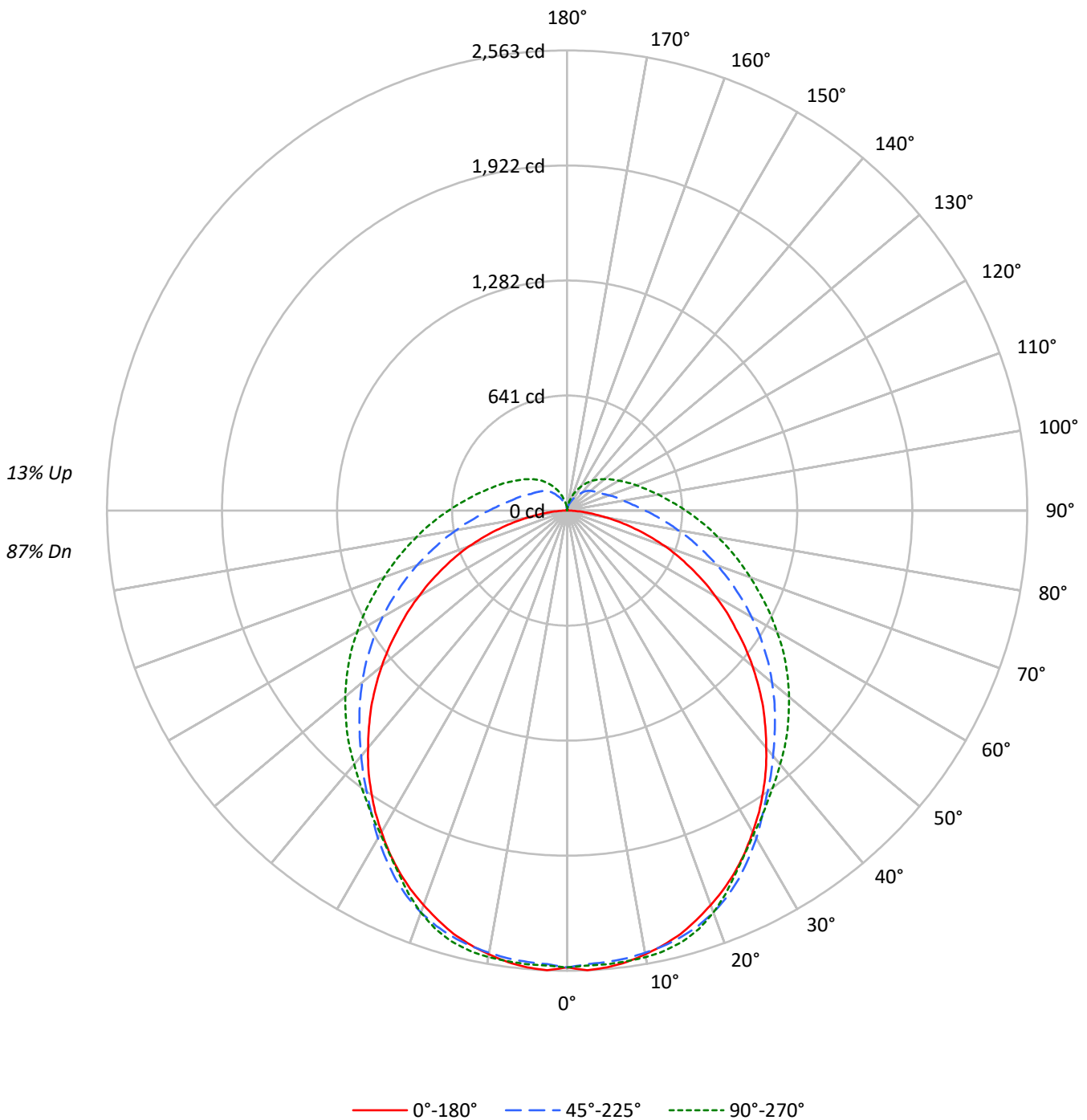
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9184.0 lumens  
Efficiency: N/A  
Efficacy: 158.6 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 (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

TEST NUMBER: P566873  
CATALOG NUMBER: 4SNX-84HL-LN-UNV-L850-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P566873

CATALOG NUMBER: 4SNX-84HL-LN-UNV-L850-CD

**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°	27384	27384	27384
5°	27490	26126	25895
10°	27233	25112	24700
15°	26906	24155	23495
20°	26388	23080	21959
25°	25831	21781	20159
30°	25096	20325	18655
35°	24312	18843	17532
40°	23422	17653	16625
45°	22549	16597	15842
50°	21512	15624	15053
55°	20298	14649	14280
60°	19133	13676	13472
65°	17837	12695	12731
70°	16356	11775	12061
75°	14066	10878	11509
80°	11086	10102	11043
85°	7421	9550	10774



TEST NUMBER: P566873

CATALOG NUMBER: 4SNX-84HL-LN-UNV-L850-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.7	2.6
10°-20°	694.9	7.6
20°-30°	1034.7	11.3
30°-40°	1220.9	13.3
40°-50°	1273.3	13.9
50°-60°	1196.6	13.0
60°-70°	1010.5	11.0
70°-80°	763.5	8.3
80°-90°	526.3	5.7
90°-100°	368.3	4.0
100°-110°	274.8	3.0
110°-120°	207.2	2.3
120°-130°	154.5	1.7
130°-140°	108.5	1.2
140°-150°	65.6	0.7
150°-160°	31.4	0.3
160°-170°	10.1	0.1
170°-180°	1.2	0.0
0°-30°	1971.3	21.5
0°-40°	3192.2	34.8
0°-60°	5662.1	61.7
0°-90°	7962.5	86.7
90°-120°	850.3	9.3
90°-150°	1178.9	12.8
90°-180°	1222.0	13.3
0°-180°	9184.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2544	2544	2544	2544	2544	
5°	2554	2549	2524	2543	2536	242
15°	2441	2452	2458	2490	2485	687
25°	2217	2262	2262	2242	2225	1020
35°	1904	1974	1937	1952	1957	1191
45°	1543	1619	1636	1703	1734	1188
55°	1146	1244	1339	1446	1485	1028
65°	763	884	1034	1169	1214	758
75°	391	542	750	908	965	416
85°	89	279	520	691	752	99
90°	2	198	434	601	660	6
95°	2	154	368	526	581	1
105°	3	110	283	411	458	3
115°	3	95	220	327	369	3
125°	5	81	185	268	302	4
135°	5	62	154	218	244	4
145°	6	45	107	167	187	4
155°	6	30	65	106	123	3
165°	8	19	34	47	62	2
175°	8	8	9	9	5	1
180°	5	5	5	5	5	



TEST NUMBER: P566873

CATALOG NUMBER: 4SNX-84HL-LN-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2544.1	2544.1	2544.1	2544.1	2544.1
2.5°	2562.8	2556.6	2528.6	2544.1	2536.4
5°	2553.5	2548.8	2523.9	2542.6	2536.4
7.5°	2536.4	2534.8	2516.1	2537.9	2531.7
10°	2509.9	2514.6	2500.5	2530.1	2525.5
12.5°	2478.7	2488.1	2483.4	2516.1	2511.4
15°	2441.4	2452.3	2458.5	2489.6	2485.0
17.5°	2391.6	2411.8	2425.8	2450.7	2442.9
20°	2338.6	2366.6	2382.2	2394.7	2382.2
22.5°	2281.0	2318.4	2327.7	2321.5	2309.0
25°	2217.2	2262.3	2262.3	2242.1	2225.0
27.5°	2145.5	2201.6	2186.0	2162.7	2148.7
30°	2067.7	2134.6	2108.2	2081.7	2078.6
32.5°	1989.8	2059.9	2021.0	2014.8	2019.4
35°	1904.2	1974.3	1936.9	1952.5	1957.1
37.5°	1818.6	1888.6	1863.7	1887.1	1901.1
40°	1725.2	1799.9	1784.3	1826.4	1845.0
42.5°	1633.3	1711.1	1709.6	1764.1	1792.1
45°	1543.0	1619.3	1636.4	1703.4	1734.5
47.5°	1444.9	1522.7	1564.8	1642.6	1673.8
50°	1348.4	1432.4	1490.0	1577.2	1613.1
52.5°	1248.7	1337.5	1416.9	1513.4	1550.8
55°	1146.0	1244.0	1339.0	1446.5	1485.4
57.5°	1054.1	1153.7	1265.8	1376.4	1421.5
60°	952.9	1063.4	1186.4	1303.2	1348.4
62.5°	861.0	974.7	1111.7	1234.7	1283.0
65°	762.9	884.4	1033.8	1169.3	1214.5
67.5°	672.6	797.2	960.7	1097.7	1147.5
70°	579.2	711.5	889.0	1033.8	1085.2
72.5°	482.7	622.8	817.4	971.6	1024.5
75°	390.8	541.8	750.5	907.7	965.3
77.5°	305.2	464.0	689.8	851.7	907.7
80°	221.1	393.9	625.9	794.1	851.7
82.5°	146.4	333.2	574.5	742.7	803.4
85°	88.7	278.7	520.0	691.3	752.0
87.5°	40.5	233.6	476.4	646.2	705.3
90°	1.6	197.7	434.4	601.0	660.2
92.5°	1.6	172.8	400.1	562.1	619.7
95°	1.6	154.1	367.5	526.3	580.8
97.5°	1.6	141.7	342.5	492.0	545.0
100°	1.6	129.2	317.6	460.9	515.4
102.5°	3.1	118.3	298.9	432.8	484.2
105°	3.1	110.5	283.4	411.0	457.8
107.5°	3.1	105.9	266.2	389.3	432.8
110°	3.1	101.2	247.6	367.5	411.0



TEST NUMBER: P566873

CATALOG NUMBER: 4SNX-84HL-LN-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	98.1	233.6	348.8	390.8
115°	3.1	95.0	219.5	327.0	369.0
117.5°	3.1	93.4	211.8	309.8	350.3
120°	4.7	88.7	202.4	294.3	333.2
122.5°	4.7	84.1	193.1	281.8	316.1
125°	4.7	81.0	185.3	267.8	302.1
127.5°	4.7	76.3	177.5	255.3	286.5
130°	4.7	71.6	171.3	242.9	272.5
132.5°	4.7	67.0	163.5	230.4	258.5
135°	4.7	62.3	154.1	218.0	244.4
137.5°	4.7	57.6	144.8	205.5	230.4
140°	4.7	52.9	132.3	193.1	216.4
142.5°	4.7	48.3	119.9	180.6	200.9
145°	6.2	45.2	107.4	166.6	186.8
147.5°	6.2	40.5	95.0	152.6	169.7
150°	6.2	37.4	85.6	138.6	154.1
152.5°	6.2	32.7	76.3	123.0	138.6
155°	6.2	29.6	65.4	105.9	123.0
157.5°	6.2	26.5	56.1	88.7	107.4
160°	6.2	24.9	48.3	73.2	91.9
162.5°	7.8	21.8	40.5	59.2	76.3
165°	7.8	18.7	34.3	46.7	62.3
167.5°	7.8	15.6	28.0	35.8	48.3
170°	7.8	12.5	21.8	24.9	37.4
172.5°	7.8	9.3	15.6	17.1	18.7
175°	7.8	7.8	9.3	9.3	4.7
177.5°	7.8	7.8	6.2	4.7	1.6
180°	4.7	4.7	4.7	4.7	4.7

(END OF REPORT)