

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: P565796

Luminaire Tested: **2SNX-47HL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

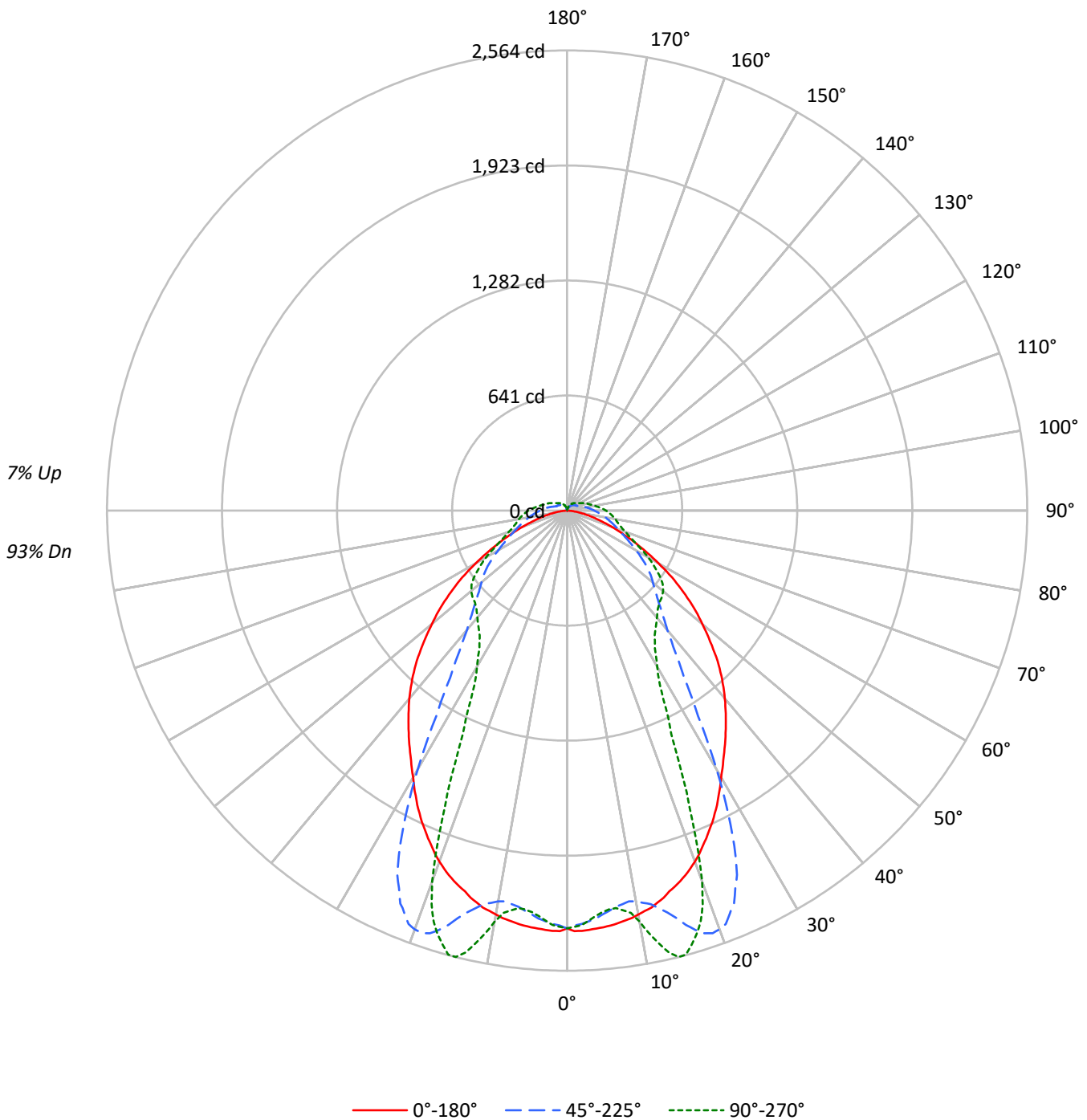
Test Method: LM-79-08  
Report Number: P565796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNX-47HL-LC-UNV-L840-CD  
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5174.0 lumens  
Efficiency: N/A  
Efficacy: 153.5 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 33.7  
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

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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

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

	0°	45°	90°
0°	50117	50117	50117
5°	49996	46659	45876
10°	49218	44201	45492
15°	47893	45878	48429
20°	46267	47679	40531
25°	43766	42650	24921
30°	40713	31677	18036
35°	38194	21801	15215
40°	35916	16869	14022
45°	33302	14318	13262
50°	29963	12807	13018
55°	26470	11539	12044
60°	22082	9946	10419
65°	17580	8623	8694
70°	13393	7711	7655
75°	9923	7125	7140
80°	6449	6697	7066
85°	2998	6327	7017



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.6	4.2
10°-20°	661.9	12.8
20°-30°	891.3	17.2
30°-40°	843.5	16.3
40°-50°	744.5	14.4
50°-60°	604.7	11.7
60°-70°	411.3	7.9
70°-80°	264.6	5.1
80°-90°	176.0	3.4
90°-100°	120.9	2.3
100°-110°	81.2	1.6
110°-120°	57.3	1.1
120°-130°	40.9	0.8
130°-140°	28.9	0.6
140°-150°	17.9	0.3
150°-160°	8.7	0.2
160°-170°	3.1	0.1
170°-180°	0.5	0.0
0°-30°	1769.9	34.2
0°-40°	2613.4	50.5
0°-60°	3962.7	76.6
0°-90°	4814.6	93.1
90°-120°	259.4	5.0
90°-150°	347.1	6.7
90°-180°	359.0	6.9
0°-180°	5174.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2328	2328	2328	2328	2328	
5°	2330	2309	2259	2258	2247	221
15°	2197	2183	2351	2559	2561	619
25°	1914	2270	2240	1627	1375	878
35°	1538	2158	1138	876	849	962
45°	1185	1452	720	711	726	910
55°	789	859	540	604	626	705
65°	407	463	362	402	415	408
75°	156	219	255	286	299	170
85°	24	93	181	229	245	31
90°	1	65	151	203	216	1
95°	1	50	127	172	184	1
105°	2	35	84	118	132	2
115°	2	30	62	88	99	2
125°	2	25	53	66	71	2
135°	3	20	43	55	58	2
145°	3	14	31	43	47	2
155°	4	9	19	28	32	2
165°	4	6	10	14	17	1
175°	5	5	5	5	4	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2328.0	2328.0	2328.0	2328.0	2328.0
1°	2343.8	2336.7	2313.0	2325.7	2319.4
2°	2343.1	2331.2	2304.3	2318.6	2310.7
3°	2339.1	2326.5	2291.7	2300.4	2288.5
4°	2335.2	2320.1	2278.3	2278.3	2264.8
5°	2330.4	2309.1	2259.3	2257.7	2246.7
6°	2324.9	2300.4	2242.7	2241.1	2234.8
7°	2317.0	2285.4	2224.6	2235.6	2230.9
8°	2307.5	2271.2	2215.1	2242.7	2249.8
9°	2298.8	2253.8	2204.0	2264.8	2270.4
10°	2284.6	2238.0	2211.1	2309.1	2325.7
11°	2272.7	2224.6	2226.9	2352.5	2402.3
12°	2260.9	2210.3	2241.9	2407.0	2467.9
13°	2241.1	2199.3	2275.1	2466.3	2528.7
14°	2223.8	2190.6	2307.5	2526.3	2563.5
15°	2196.9	2182.7	2351.0	2558.7	2561.1
16°	2178.7	2177.2	2401.5	2561.1	2516.8
17°	2158.2	2174.8	2442.6	2520.0	2467.9
18°	2135.3	2179.5	2476.6	2468.7	2408.6
19°	2109.2	2184.3	2490.8	2397.6	2320.1
20°	2080.8	2191.4	2482.9	2323.3	2198.5
21°	2052.3	2200.9	2467.9	2245.1	2038.9
22.5°	1999.4	2223.8	2396.8	2025.5	1775.1
23°	1984.4	2228.5	2380.2	1956.8	1706.3
24°	1947.3	2248.3	2304.3	1796.4	1524.6
25°	1914.1	2269.6	2239.6	1626.6	1375.3
26°	1877.0	2285.4	2141.6	1470.1	1283.7
27°	1840.6	2294.9	2030.2	1348.5	1181.0
28°	1798.8	2305.1	1909.4	1243.4	1103.6
29°	1759.3	2306.7	1790.1	1159.7	1042.8
30°	1716.6	2298.8	1664.5	1092.5	1004.8
32.5°	1623.4	2255.4	1357.2	964.6	910.0
35°	1538.1	2158.2	1137.6	876.1	849.2
37.5°	1452.0	2004.9	983.5	820.8	812.1
40°	1367.4	1823.3	867.4	776.5	778.1
42.5°	1278.2	1636.0	787.6	740.2	747.3
45°	1185.0	1452.0	719.7	711.0	726.0
47.5°	1081.5	1283.7	665.9	692.0	714.9
50°	983.5	1117.0	624.1	673.8	697.5
52.5°	890.3	980.4	586.2	643.0	670.7
55°	789.2	858.7	540.3	603.5	626.4
57.5°	692.8	748.9	492.2	554.6	575.1
60°	586.9	640.7	443.2	501.6	521.4
62.5°	491.4	548.2	401.3	448.7	464.5
65°	406.8	462.9	361.8	402.1	414.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	331.8	391.8	329.4	363.4	375.2
70°	261.5	324.7	301.0	331.8	344.4
72.5°	204.6	268.6	277.3	305.7	318.4
75°	156.4	218.8	255.2	286.0	299.4
77.5°	116.1	178.5	234.6	270.2	284.4
80°	76.6	142.2	216.5	256.0	272.5
82.5°	48.2	114.5	198.3	241.7	259.1
85°	23.7	93.2	180.9	229.1	244.9
87.5°	7.9	77.4	165.1	216.5	229.9
90°	0.8	64.8	150.9	203.0	216.5
92.5°	0.8	56.1	139.0	187.2	200.7
95°	0.8	49.8	127.2	172.2	184.1
97.5°	0.8	45.0	116.1	156.4	169.1
100°	0.8	40.3	104.3	141.4	154.8
102.5°	1.6	37.1	94.0	128.8	143.0
105°	1.6	34.8	83.7	117.7	131.9
107.5°	1.6	33.2	75.0	109.0	122.4
110°	1.6	31.6	68.7	101.1	115.3
112.5°	1.6	30.8	64.8	94.0	107.4
115°	1.6	30.0	61.6	87.7	98.7
117.5°	2.4	29.2	59.2	81.4	90.1
120°	2.4	27.6	57.7	75.8	82.9
122.5°	2.4	26.1	55.3	71.1	76.6
125°	2.4	25.3	52.9	66.4	71.1
127.5°	2.4	23.7	50.6	62.4	67.1
130°	3.2	22.1	48.2	59.2	63.2
132.5°	3.2	20.5	45.8	57.7	60.8
135°	3.2	19.7	43.4	55.3	58.5
137.5°	3.2	18.2	41.1	52.9	56.1
140°	3.2	16.6	37.9	49.8	52.9
142.5°	3.2	15.8	34.8	46.6	49.8
145°	3.2	14.2	30.8	42.7	46.6
147.5°	3.9	13.4	27.6	39.5	42.7
150°	3.9	11.8	24.5	36.3	39.5
152.5°	3.9	10.3	21.3	32.4	35.5
155°	3.9	8.7	19.0	28.4	32.4
157.5°	3.9	7.9	16.6	23.7	28.4
160°	3.9	7.1	14.2	20.5	24.5
162.5°	3.9	6.3	12.6	17.4	21.3
165°	3.9	5.5	10.3	14.2	17.4
167.5°	4.7	5.5	8.7	11.1	14.2
170°	4.7	5.5	7.1	8.7	11.1
172.5°	4.7	4.7	5.5	6.3	7.1
175°	4.7	4.7	4.7	4.7	3.9
177.5°	4.7	4.7	4.7	3.9	3.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	3.9	3.9	3.9	3.9	3.9

(END OF REPORT)