

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: P565748

Luminaire Tested: **2SNX-44HL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565748  
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-44HL-LC-UNV-L840-CD  
Description: 2FT 4400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

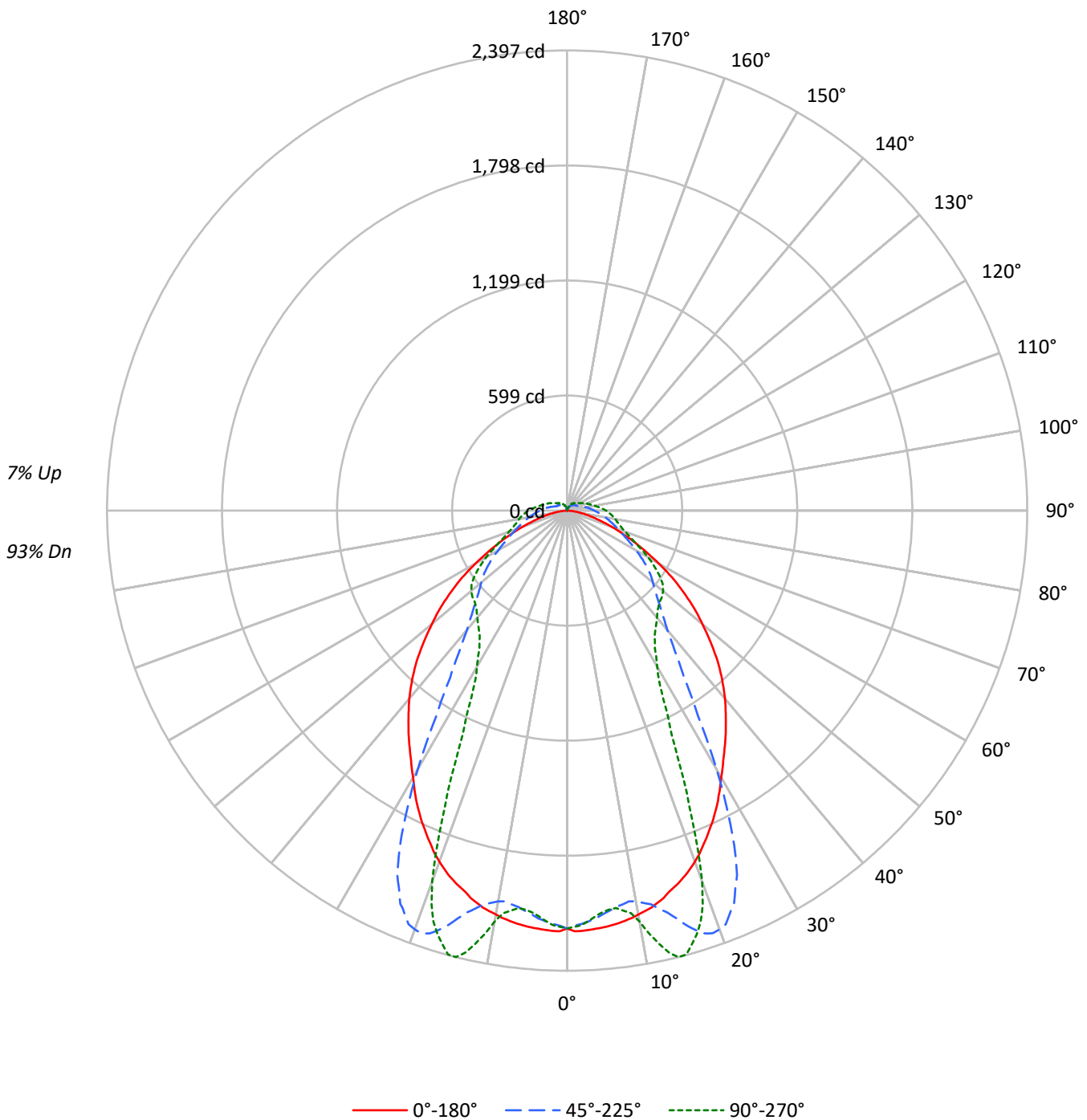
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4838.0 lumens  
Efficiency: N/A  
Efficacy: 155.6 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): 31.1  
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°	46864	46864	46864
5°	46750	43629	42896
10°	46021	41330	42536
15°	44782	42898	45284
20°	43263	44581	37899
25°	40923	39880	23303
30°	38068	29620	16865
35°	35713	20385	14228
40°	33584	15774	13112
45°	31138	13387	12400
50°	28016	11974	12172
55°	24750	10792	11263
60°	20649	9300	9741
65°	16439	8063	8130
70°	12522	7209	7160
75°	9282	6661	6677
80°	6036	6261	6607
85°	2808	5918	6562



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.6	4.2
10°-20°	619.0	12.8
20°-30°	833.4	17.2
30°-40°	788.8	16.3
40°-50°	696.2	14.4
50°-60°	565.5	11.7
60°-70°	384.6	7.9
70°-80°	247.5	5.1
80°-90°	164.6	3.4
90°-100°	113.1	2.3
100°-110°	75.9	1.6
110°-120°	53.5	1.1
120°-130°	38.3	0.8
130°-140°	27.0	0.6
140°-150°	16.8	0.3
150°-160°	8.2	0.2
160°-170°	2.9	0.1
170°-180°	0.5	0.0
0°-30°	1655.0	34.2
0°-40°	2443.7	50.5
0°-60°	3705.4	76.6
0°-90°	4502.0	93.1
90°-120°	242.5	5.0
90°-150°	324.5	6.7
90°-180°	336.0	6.9
0°-180°	4838.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2177	2177	2177	2177	2177	
5°	2179	2159	2113	2111	2101	207
15°	2054	2041	2198	2393	2395	579
25°	1790	2122	2094	1521	1286	821
35°	1438	2018	1064	819	794	900
45°	1108	1358	673	665	679	851
55°	738	803	505	564	586	659
65°	380	433	338	376	388	382
75°	146	205	239	267	280	159
85°	22	87	169	214	229	29
90°	1	61	141	190	202	1
95°	1	46	119	161	172	1
105°	2	32	78	110	123	1
115°	2	28	58	82	92	2
125°	2	24	50	62	66	2
135°	3	18	41	52	55	2
145°	3	13	29	40	44	2
155°	4	8	18	27	30	2
165°	4	5	10	13	16	1
175°	4	4	4	4	4	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2176.9	2176.9	2176.9	2176.9	2176.9
1°	2191.6	2185.0	2162.8	2174.6	2168.7
2°	2190.9	2179.8	2154.7	2168.0	2160.6
3°	2187.2	2175.4	2142.9	2151.0	2139.9
4°	2183.5	2169.5	2130.3	2130.3	2117.8
5°	2179.1	2159.1	2112.6	2111.1	2100.8
6°	2173.9	2151.0	2097.1	2095.6	2089.7
7°	2166.5	2137.0	2080.1	2090.4	2086.0
8°	2157.7	2123.7	2071.2	2097.1	2103.7
9°	2149.5	2107.4	2060.9	2117.8	2122.9
10°	2136.2	2092.7	2067.5	2159.1	2174.6
11°	2125.2	2080.1	2082.3	2199.8	2246.3
12°	2114.1	2066.8	2096.3	2250.7	2307.6
13°	2095.6	2056.5	2127.4	2306.1	2364.5
14°	2079.4	2048.3	2157.7	2362.3	2397.0
15°	2054.2	2040.9	2198.3	2392.6	2394.8
16°	2037.3	2035.8	2245.6	2394.8	2353.4
17°	2018.0	2033.6	2284.0	2356.4	2307.6
18°	1996.6	2038.0	2315.7	2308.3	2252.2
19°	1972.2	2042.4	2329.0	2241.9	2169.5
20°	1945.7	2049.1	2321.6	2172.4	2055.7
21°	1919.1	2057.9	2307.6	2099.3	1906.5
22.5°	1869.6	2079.4	2241.1	1894.0	1659.8
23°	1855.5	2083.8	2225.6	1829.7	1595.5
24°	1820.8	2102.3	2154.7	1679.7	1425.6
25°	1789.8	2122.2	2094.1	1520.9	1286.0
26°	1755.1	2137.0	2002.5	1374.7	1200.3
27°	1721.1	2145.8	1898.4	1260.9	1104.3
28°	1682.0	2155.4	1785.4	1162.7	1031.9
29°	1645.0	2156.9	1673.8	1084.4	975.0
30°	1605.1	2149.5	1556.4	1021.6	939.6
32.5°	1518.0	2108.9	1269.0	901.9	850.9
35°	1438.2	2018.0	1063.7	819.2	794.1
37.5°	1357.7	1874.7	919.6	767.5	759.4
40°	1278.6	1704.9	811.1	726.1	727.6
42.5°	1195.2	1529.8	736.5	692.1	698.8
45°	1108.0	1357.7	672.9	664.8	678.8
47.5°	1011.2	1200.3	622.7	647.1	668.5
50°	919.6	1044.5	583.5	630.1	652.2
52.5°	832.5	916.7	548.1	601.3	627.1
55°	737.9	802.9	505.3	564.3	585.8
57.5°	647.8	700.3	460.2	518.5	537.8
60°	548.8	599.1	414.4	469.1	487.5
62.5°	459.5	512.6	375.2	419.6	434.3
65°	380.4	432.9	338.3	376.0	387.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	310.2	366.4	308.0	339.8	350.9
70°	244.5	303.6	281.4	310.2	322.1
72.5°	191.3	251.1	259.3	285.9	297.7
75°	146.3	204.6	238.6	267.4	280.0
77.5°	108.6	166.9	219.4	252.6	265.9
80°	71.7	133.0	202.4	239.3	254.8
82.5°	45.1	107.1	185.4	226.0	242.3
85°	22.2	87.2	169.2	214.2	229.0
87.5°	7.4	72.4	154.4	202.4	215.0
90°	0.7	60.6	141.1	189.8	202.4
92.5°	0.7	52.4	130.0	175.1	187.6
95°	0.7	46.5	118.9	161.0	172.1
97.5°	0.7	42.1	108.6	146.3	158.1
100°	0.7	37.7	97.5	132.2	144.8
102.5°	1.5	34.7	87.9	120.4	133.7
105°	1.5	32.5	78.3	110.1	123.4
107.5°	1.5	31.0	70.2	101.9	114.5
110°	1.5	29.5	64.3	94.5	107.8
112.5°	1.5	28.8	60.6	87.9	100.5
115°	1.5	28.1	57.6	82.0	92.3
117.5°	2.2	27.3	55.4	76.1	84.2
120°	2.2	25.9	53.9	70.9	77.6
122.5°	2.2	24.4	51.7	66.5	71.7
125°	2.2	23.6	49.5	62.0	66.5
127.5°	2.2	22.2	47.3	58.4	62.8
130°	3.0	20.7	45.1	55.4	59.1
132.5°	3.0	19.2	42.8	53.9	56.9
135°	3.0	18.5	40.6	51.7	54.7
137.5°	3.0	17.0	38.4	49.5	52.4
140°	3.0	15.5	35.5	46.5	49.5
142.5°	3.0	14.8	32.5	43.6	46.5
145°	3.0	13.3	28.8	39.9	43.6
147.5°	3.7	12.6	25.9	36.9	39.9
150°	3.7	11.1	22.9	34.0	36.9
152.5°	3.7	9.6	19.9	30.3	33.2
155°	3.7	8.1	17.7	26.6	30.3
157.5°	3.7	7.4	15.5	22.2	26.6
160°	3.7	6.6	13.3	19.2	22.9
162.5°	3.7	5.9	11.8	16.3	19.9
165°	3.7	5.2	9.6	13.3	16.3
167.5°	4.4	5.2	8.1	10.3	13.3
170°	4.4	5.2	6.6	8.1	10.3
172.5°	4.4	4.4	5.2	5.9	6.6
175°	4.4	4.4	4.4	4.4	3.7
177.5°	4.4	4.4	4.4	3.7	3.7



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CATALOG NUMBER: 2SNX-44HL-LC-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	3.7	3.7	3.7	3.7	3.7

(END OF REPORT)