

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: P565794

Luminaire Tested: **2SNX-47HL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565794
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-L830-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

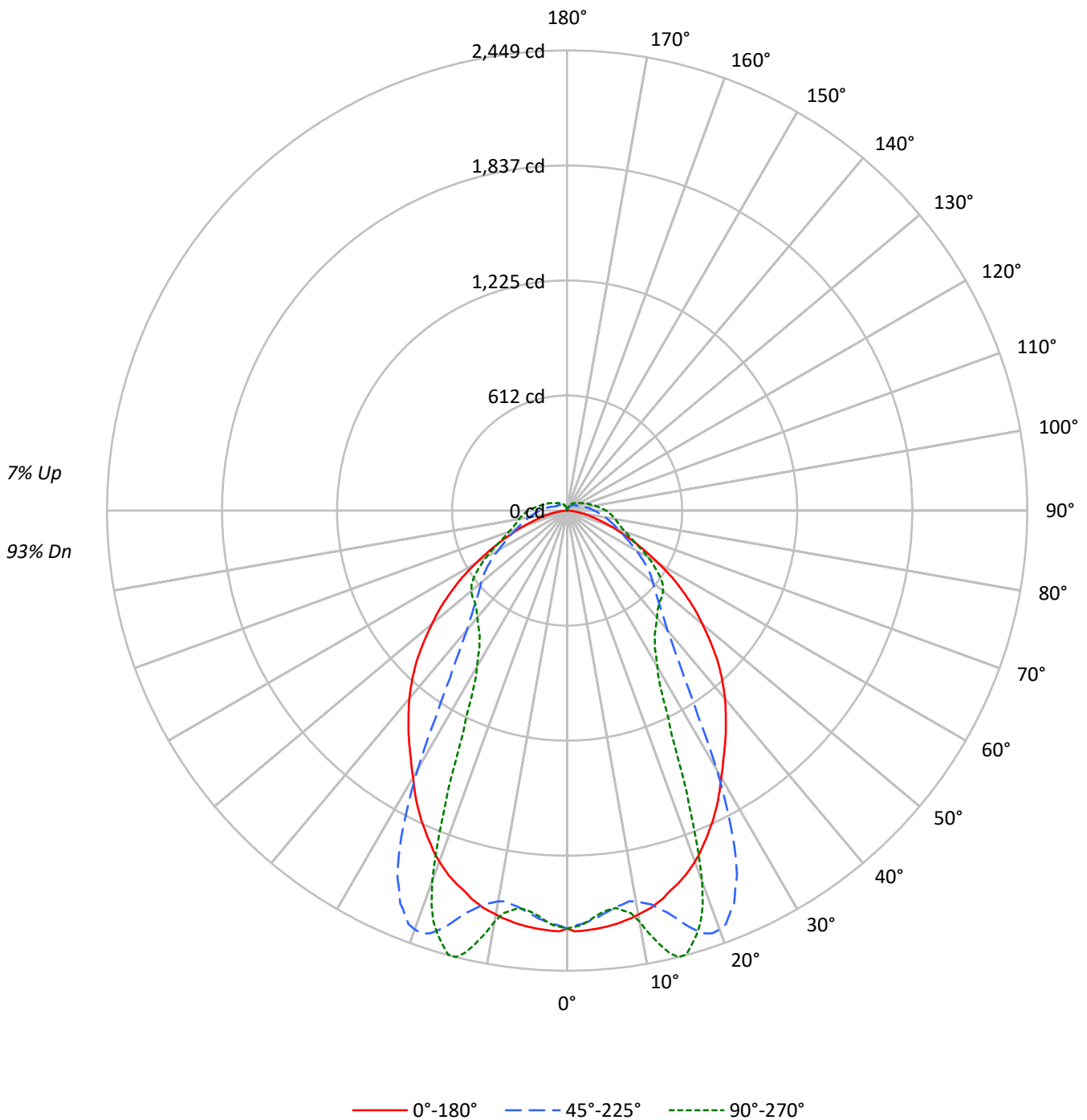
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4943.0 lumens
Efficiency: N/A
Efficacy: 146.7 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

TEST NUMBER: P565794
CATALOG NUMBER: 2SNX-47HL-LC-UNV-L830-CD

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°	47880	47880	47880
5°	47764	44575	43828
10°	47021	42228	43460
15°	45755	43829	46266
20°	44201	45549	38721
25°	41811	40746	23808
30°	38896	30263	17231
35°	36488	20828	14536
40°	34314	16117	13397
45°	31815	13677	12670
50°	28626	12235	12437
55°	25286	11024	11507
60°	21096	9502	9953
65°	16798	8239	8306
70°	12794	7365	7315
75°	9479	6807	6820
80°	6162	6397	6752
85°	2859	6044	6705



TEST NUMBER: P565794

CATALOG NUMBER: 2SNX-47HL-LC-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.0	4.2
10°-20°	632.4	12.8
20°-30°	851.5	17.2
30°-40°	805.9	16.3
40°-50°	711.3	14.4
50°-60°	577.7	11.7
60°-70°	392.9	7.9
70°-80°	252.8	5.1
80°-90°	168.1	3.4
90°-100°	115.5	2.3
100°-110°	77.6	1.6
110°-120°	54.7	1.1
120°-130°	39.1	0.8
130°-140°	27.6	0.6
140°-150°	17.1	0.3
150°-160°	8.3	0.2
160°-170°	2.9	0.1
170°-180°	0.5	0.0
0°-30°	1690.9	34.2
0°-40°	2496.8	50.5
0°-60°	3785.8	76.6
0°-90°	4599.7	93.1
90°-120°	247.8	5.0
90°-150°	331.5	6.7
90°-180°	343.0	6.9
0°-180°	4943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2224	2224	2224	2224	2224	
5°	2226	2206	2158	2157	2146	211
15°	2099	2085	2246	2444	2447	592
25°	1829	2168	2140	1554	1314	839
35°	1469	2062	1087	837	811	919
45°	1132	1387	688	679	694	869
55°	754	820	516	577	598	673
65°	389	442	346	384	396	390
75°	149	209	244	273	286	163
85°	23	89	173	219	234	30
90°	1	62	144	194	207	1
95°	1	48	122	164	176	1
105°	2	33	80	112	126	1
115°	2	29	59	84	94	2
125°	2	24	51	63	68	2
135°	3	19	42	53	56	2
145°	3	14	29	41	44	2
155°	4	8	18	27	31	2
165°	4	5	10	14	17	1
175°	4	4	4	4	4	0
180°	4	4	4	4	4	



TEST NUMBER: P565794

CATALOG NUMBER: 2SNX-47HL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2224.1	2224.1	2224.1	2224.1	2224.1
1°	2239.2	2232.4	2209.8	2221.8	2215.8
2°	2238.4	2227.1	2201.5	2215.1	2207.5
3°	2234.7	2222.6	2189.4	2197.7	2186.4
4°	2230.9	2216.6	2176.6	2176.6	2163.7
5°	2226.4	2206.0	2158.4	2156.9	2146.4
6°	2221.1	2197.7	2142.6	2141.1	2135.1
7°	2213.5	2183.4	2125.2	2135.8	2131.3
8°	2204.5	2169.8	2116.2	2142.6	2149.4
9°	2196.2	2153.2	2105.6	2163.7	2169.0
10°	2182.6	2138.1	2112.4	2206.0	2221.8
11°	2171.3	2125.2	2127.5	2247.5	2295.0
12°	2160.0	2111.7	2141.8	2299.6	2357.7
13°	2141.1	2101.1	2173.5	2356.2	2415.8
14°	2124.5	2092.8	2204.5	2413.5	2449.0
15°	2098.8	2085.2	2246.0	2444.5	2446.7
16°	2081.5	2080.0	2294.3	2446.7	2404.5
17°	2061.8	2077.7	2333.5	2407.5	2357.7
18°	2040.0	2082.2	2366.0	2358.4	2301.1
19°	2015.1	2086.8	2379.6	2290.5	2216.6
20°	1987.9	2093.5	2372.0	2219.6	2100.3
21°	1960.7	2102.6	2357.7	2144.9	1947.9
22.5°	1910.2	2124.5	2289.8	1935.1	1695.8
23°	1895.8	2129.0	2273.9	1869.4	1630.2
24°	1860.3	2147.9	2201.5	1716.2	1456.6
25°	1828.6	2168.3	2139.6	1553.9	1313.9
26°	1793.2	2183.4	2046.0	1404.5	1226.4
27°	1758.5	2192.4	1939.6	1288.3	1128.3
28°	1718.5	2202.2	1824.1	1187.9	1054.3
29°	1680.7	2203.7	1710.2	1107.9	996.2
30°	1640.0	2196.2	1590.2	1043.8	960.0
32.5°	1550.9	2154.7	1296.6	921.5	869.4
35°	1469.4	2061.8	1086.8	837.0	811.3
37.5°	1387.1	1915.4	939.6	784.1	775.8
40°	1306.4	1741.9	828.7	741.9	743.4
42.5°	1221.1	1563.0	752.4	707.2	713.9
45°	1132.1	1387.1	687.5	679.2	693.6
47.5°	1033.2	1226.4	636.2	661.1	683.0
50°	939.6	1067.1	596.2	643.8	666.4
52.5°	850.5	936.6	560.0	614.3	640.7
55°	753.9	820.4	516.2	576.6	598.5
57.5°	661.9	715.5	470.2	529.8	549.4
60°	560.7	612.1	423.4	479.2	498.1
62.5°	469.4	523.8	383.4	428.7	443.8
65°	388.7	442.3	345.7	384.1	396.2



TEST NUMBER: P565794

CATALOG NUMBER: 2SNX-47HL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	317.0	374.3	314.7	347.2	358.5
70°	249.8	310.2	287.5	317.0	329.1
72.5°	195.5	256.6	264.9	292.1	304.1
75°	149.4	209.1	243.8	273.2	286.0
77.5°	110.9	170.6	224.1	258.1	271.7
80°	73.2	135.8	206.8	244.5	260.4
82.5°	46.0	109.4	189.4	230.9	247.5
85°	22.6	89.1	172.8	218.9	234.0
87.5°	7.5	74.0	157.7	206.8	219.6
90°	0.8	61.9	144.1	194.0	206.8
92.5°	0.8	53.6	132.8	178.9	191.7
95°	0.8	47.5	121.5	164.5	175.8
97.5°	0.8	43.0	110.9	149.4	161.5
100°	0.8	38.5	99.6	135.1	147.9
102.5°	1.5	35.5	89.8	123.0	136.6
105°	1.5	33.2	80.0	112.5	126.0
107.5°	1.5	31.7	71.7	104.1	117.0
110°	1.5	30.2	65.7	96.6	110.2
112.5°	1.5	29.4	61.9	89.8	102.6
115°	1.5	28.7	58.9	83.8	94.3
117.5°	2.3	27.9	56.6	77.7	86.0
120°	2.3	26.4	55.1	72.5	79.2
122.5°	2.3	24.9	52.8	67.9	73.2
125°	2.3	24.2	50.6	63.4	67.9
127.5°	2.3	22.6	48.3	59.6	64.1
130°	3.0	21.1	46.0	56.6	60.4
132.5°	3.0	19.6	43.8	55.1	58.1
135°	3.0	18.9	41.5	52.8	55.8
137.5°	3.0	17.4	39.2	50.6	53.6
140°	3.0	15.8	36.2	47.5	50.6
142.5°	3.0	15.1	33.2	44.5	47.5
145°	3.0	13.6	29.4	40.8	44.5
147.5°	3.8	12.8	26.4	37.7	40.8
150°	3.8	11.3	23.4	34.7	37.7
152.5°	3.8	9.8	20.4	30.9	34.0
155°	3.8	8.3	18.1	27.2	30.9
157.5°	3.8	7.5	15.8	22.6	27.2
160°	3.8	6.8	13.6	19.6	23.4
162.5°	3.8	6.0	12.1	16.6	20.4
165°	3.8	5.3	9.8	13.6	16.6
167.5°	4.5	5.3	8.3	10.6	13.6
170°	4.5	5.3	6.8	8.3	10.6
172.5°	4.5	4.5	5.3	6.0	6.8
175°	4.5	4.5	4.5	4.5	3.8
177.5°	4.5	4.5	4.5	3.8	3.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)