

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: P565795

Luminaire Tested: **2SNX-47HL-LC-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565795
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-L835-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

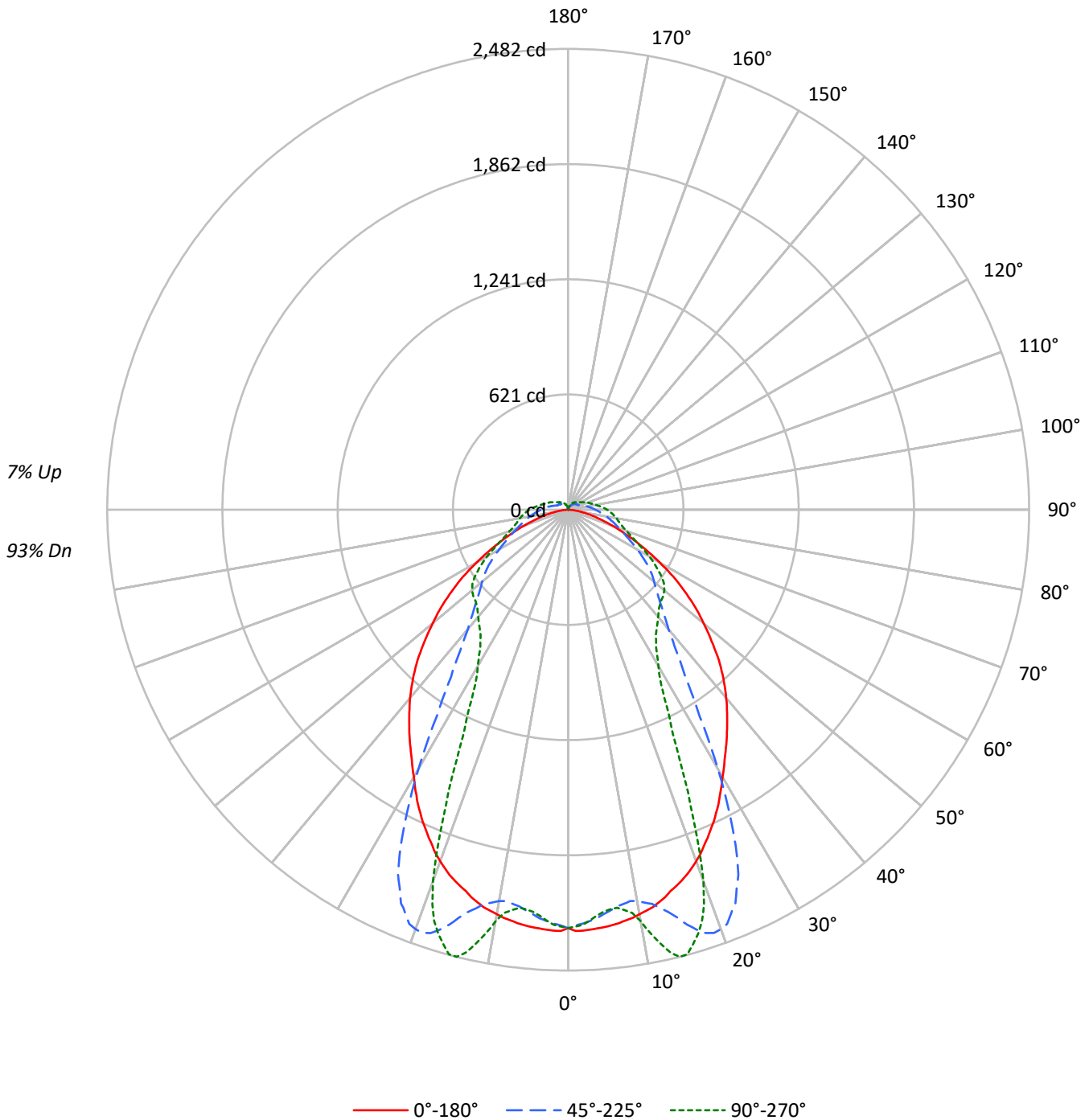
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5009.0 lumens
Efficiency: N/A
Efficacy: 148.6 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): 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: P565795
CATALOG NUMBER: 2SNX-47HL-LC-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P565795

CATALOG NUMBER: 2SNX-47HL-LC-UNV-L835-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	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°	48519	48519	48519
5°	48402	45172	44411
10°	47647	42792	44041
15°	46365	44414	46884
20°	44790	46158	39239
25°	42371	41289	24127
30°	39415	30667	17461
35°	36974	21105	14729
40°	34771	16331	13575
45°	32240	13860	12838
50°	29006	12399	12603
55°	25625	11172	11661
60°	21378	9627	10087
65°	17023	8349	8418
70°	12963	7465	7411
75°	9606	6896	6913
80°	6247	6481	6841
85°	2897	6125	6794



TEST NUMBER: P565795

CATALOG NUMBER: 2SNX-47HL-LC-UNV-L835-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	4.2
10°-20°	640.8	12.8
20°-30°	862.9	17.2
30°-40°	816.6	16.3
40°-50°	720.8	14.4
50°-60°	585.5	11.7
60°-70°	398.2	7.9
70°-80°	256.2	5.1
80°-90°	170.3	3.4
90°-100°	117.1	2.3
100°-110°	78.6	1.6
110°-120°	55.4	1.1
120°-130°	39.6	0.8
130°-140°	27.9	0.6
140°-150°	17.4	0.3
150°-160°	8.5	0.2
160°-170°	3.0	0.1
170°-180°	0.5	0.0
0°-30°	1713.4	34.2
0°-40°	2530.1	50.5
0°-60°	3836.3	76.6
0°-90°	4661.0	93.1
90°-120°	251.1	5.0
90°-150°	336.0	6.7
90°-180°	348.0	6.9
0°-180°	5009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2254	2254	2254	2254	2254	
5°	2256	2235	2187	2186	2175	214
15°	2127	2113	2276	2477	2479	600
25°	1853	2197	2168	1575	1332	850
35°	1489	2089	1101	848	822	932
45°	1147	1406	697	688	703	881
55°	764	831	523	584	606	682
65°	394	448	350	389	402	395
75°	151	212	247	277	290	165
85°	23	90	175	222	237	30
90°	1	63	146	196	210	1
95°	1	48	123	167	178	1
105°	2	34	81	114	128	1
115°	2	29	60	85	96	2
125°	2	24	51	64	69	2
135°	3	19	42	54	57	2
145°	3	14	30	41	45	2
155°	4	8	18	28	31	2
165°	4	5	10	14	17	1
175°	5	5	5	5	4	0
180°	4	4	4	4	4	



TEST NUMBER: P565795

CATALOG NUMBER: 2SNX-47HL-LC-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2253.8	2253.8	2253.8	2253.8	2253.8
1°	2269.1	2262.2	2239.3	2251.5	2245.4
2°	2268.3	2256.9	2230.9	2244.6	2237.0
3°	2264.5	2252.3	2218.6	2227.0	2215.6
4°	2260.7	2246.2	2205.6	2205.6	2192.6
5°	2256.1	2235.4	2187.3	2185.7	2175.0
6°	2250.7	2227.0	2171.2	2169.7	2163.6
7°	2243.1	2212.5	2153.6	2164.3	2159.7
8°	2233.9	2198.7	2144.4	2171.2	2178.1
9°	2225.5	2181.9	2133.7	2192.6	2198.0
10°	2211.7	2166.6	2140.6	2235.4	2251.5
11°	2200.3	2153.6	2155.9	2277.5	2325.7
12°	2188.8	2139.9	2170.4	2330.3	2389.2
13°	2169.7	2129.1	2202.6	2387.6	2448.1
14°	2152.9	2120.7	2233.9	2445.8	2481.7
15°	2126.8	2113.1	2276.0	2477.1	2479.4
16°	2109.3	2107.7	2324.9	2479.4	2436.6
17°	2089.4	2105.4	2364.7	2439.6	2389.2
18°	2067.2	2110.0	2397.6	2389.9	2331.8
19°	2042.0	2114.6	2411.3	2321.1	2246.2
20°	2014.4	2121.5	2403.7	2249.2	2128.4
21°	1986.9	2130.7	2389.2	2173.5	1973.9
22.5°	1935.7	2152.9	2320.3	1960.9	1718.5
23°	1921.1	2157.4	2304.3	1894.4	1651.9
24°	1885.2	2176.6	2230.9	1739.1	1476.0
25°	1853.1	2197.2	2168.1	1574.7	1331.5
26°	1817.1	2212.5	2073.3	1423.3	1242.8
27°	1781.9	2221.7	1965.5	1305.5	1143.3
28°	1741.4	2231.6	1848.5	1203.8	1068.4
29°	1703.2	2233.2	1733.0	1122.7	1009.5
30°	1661.9	2225.5	1611.4	1057.7	972.8
32.5°	1571.6	2183.4	1313.9	933.8	881.0
35°	1489.0	2089.4	1101.3	848.1	822.1
37.5°	1405.7	1941.0	952.1	794.6	786.2
40°	1323.8	1765.1	839.7	751.8	753.3
42.5°	1237.4	1583.9	762.5	716.6	723.5
45°	1147.2	1405.7	696.7	688.3	702.8
47.5°	1047.0	1242.8	644.7	669.9	692.1
50°	952.1	1081.4	604.2	652.4	675.3
52.5°	861.9	949.1	567.5	622.5	649.3
55°	764.0	831.3	523.1	584.3	606.5
57.5°	670.7	725.0	476.5	536.9	556.8
60°	568.2	620.2	429.0	485.6	504.8
62.5°	475.7	530.8	388.5	434.4	449.7
65°	393.9	448.2	350.3	389.3	401.5



TEST NUMBER: P565795

CATALOG NUMBER: 2SNX-47HL-LC-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	321.2	379.3	318.9	351.8	363.3
70°	253.1	314.3	291.4	321.2	333.4
72.5°	198.1	260.0	268.4	296.0	308.2
75°	151.4	211.8	247.0	276.8	289.9
77.5°	112.4	172.8	227.1	261.6	275.3
80°	74.2	137.7	209.5	247.8	263.8
82.5°	46.7	110.9	192.0	234.0	250.8
85°	22.9	90.2	175.1	221.8	237.1
87.5°	7.6	74.9	159.8	209.5	222.6
90°	0.8	62.7	146.1	196.5	209.5
92.5°	0.8	54.3	134.6	181.3	194.3
95°	0.8	48.2	123.1	166.7	178.2
97.5°	0.8	43.6	112.4	151.4	163.7
100°	0.8	39.0	101.0	136.9	149.9
102.5°	1.5	35.9	91.0	124.7	138.4
105°	1.5	33.7	81.1	114.0	127.7
107.5°	1.5	32.1	72.7	105.5	118.5
110°	1.5	30.6	66.5	97.9	111.7
112.5°	1.5	29.8	62.7	91.0	104.0
115°	1.5	29.1	59.7	84.9	95.6
117.5°	2.3	28.3	57.4	78.8	87.2
120°	2.3	26.8	55.8	73.4	80.3
122.5°	2.3	25.2	53.5	68.8	74.2
125°	2.3	24.5	51.2	64.2	68.8
127.5°	2.3	22.9	48.9	60.4	65.0
130°	3.1	21.4	46.7	57.4	61.2
132.5°	3.1	19.9	44.4	55.8	58.9
135°	3.1	19.1	42.1	53.5	56.6
137.5°	3.1	17.6	39.8	51.2	54.3
140°	3.1	16.1	36.7	48.2	51.2
142.5°	3.1	15.3	33.7	45.1	48.2
145°	3.1	13.8	29.8	41.3	45.1
147.5°	3.8	13.0	26.8	38.2	41.3
150°	3.8	11.5	23.7	35.2	38.2
152.5°	3.8	9.9	20.6	31.4	34.4
155°	3.8	8.4	18.4	27.5	31.4
157.5°	3.8	7.6	16.1	22.9	27.5
160°	3.8	6.9	13.8	19.9	23.7
162.5°	3.8	6.1	12.2	16.8	20.6
165°	3.8	5.4	9.9	13.8	16.8
167.5°	4.6	5.4	8.4	10.7	13.8
170°	4.6	5.4	6.9	8.4	10.7
172.5°	4.6	4.6	5.4	6.1	6.9
175°	4.6	4.6	4.6	4.6	3.8
177.5°	4.6	4.6	4.6	3.8	3.8



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CATALOG NUMBER: 2SNX-47HL-LC-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)