

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: P566929

Luminaire Tested: **4SNX-87HL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-87HL-LW-UNV-L850-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

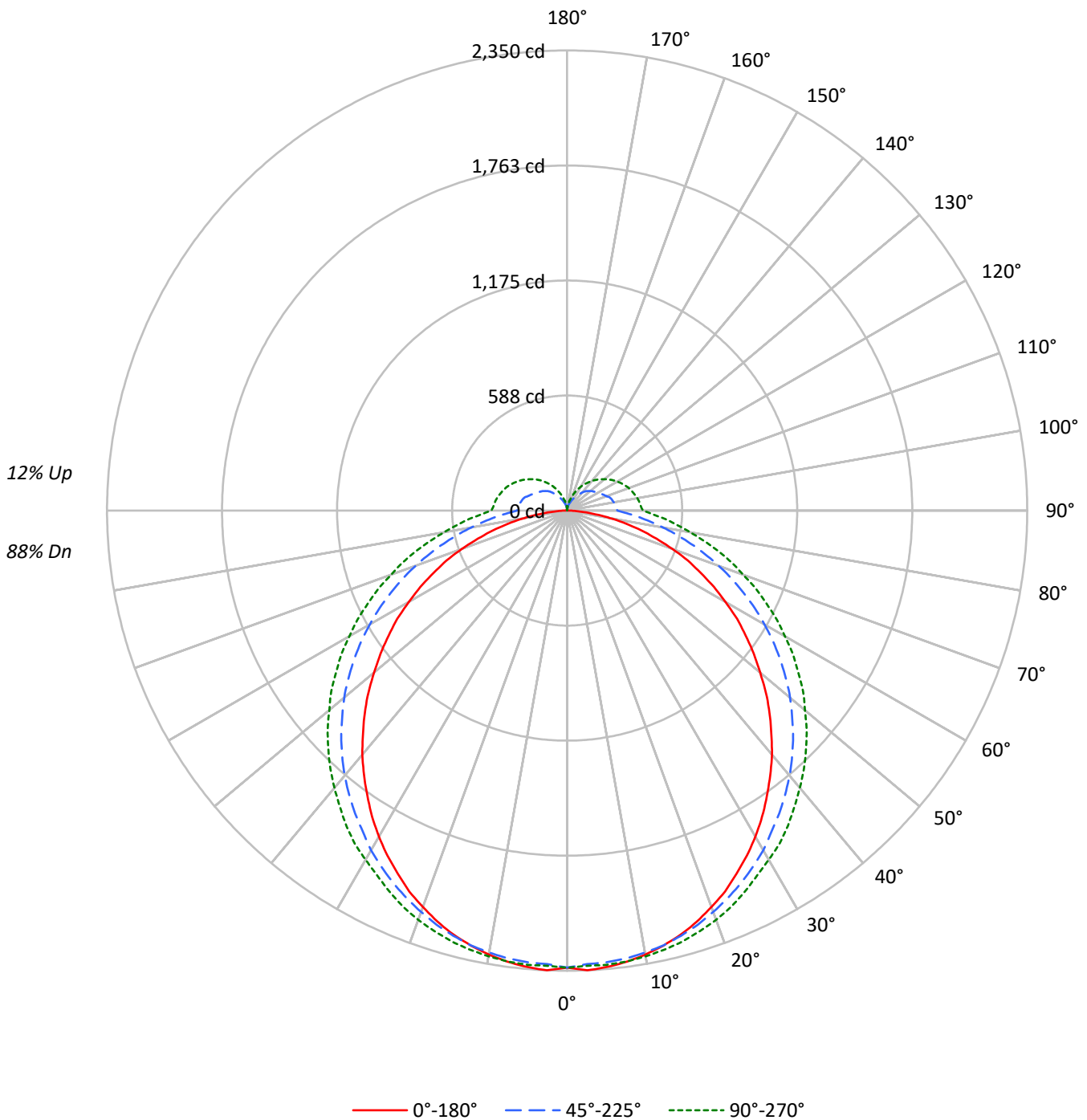
Lumens per Lamp: N/A
Luminaire Lumens: 8403.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 62.2
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25123	25123	25123
5°	25190	23967	23771
10°	24982	23022	22602
15°	24707	22084	21537
20°	24307	21135	20507
25°	23839	20214	19452
30°	23334	19312	18481
35°	22709	18366	17609
40°	22096	17482	16662
45°	21365	16550	15758
50°	20523	15588	14798
55°	19701	14531	13847
60°	18752	13419	12824
65°	17596	12210	11766
70°	16133	10902	10619
75°	14087	9469	9522
80°	11256	8036	8265
85°	7220	6659	7215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.6	2.6
10°-20°	637.4	7.6
20°-30°	969.6	11.5
30°-40°	1179.0	14.0
40°-50°	1247.3	14.8
50°-60°	1169.2	13.9
60°-70°	961.9	11.4
70°-80°	665.5	7.9
80°-90°	370.1	4.4
90°-100°	243.8	2.9
100°-110°	218.6	2.6
110°-120°	181.0	2.2
120°-130°	139.9	1.7
130°-140°	99.0	1.2
140°-150°	59.7	0.7
150°-160°	28.7	0.3
160°-170°	9.4	0.1
170°-180°	1.1	0.0
0°-30°	1828.6	21.8
0°-40°	3007.6	35.8
0°-60°	5424.2	64.6
0°-90°	7421.7	88.3
90°-120°	643.4	7.7
90°-150°	942.1	11.2
90°-180°	981.0	11.7
0°-180°	8403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2334	2334	2334	2334	2334	
5°	2340	2336	2315	2334	2328	222
15°	2242	2249	2248	2278	2278	632
25°	2046	2075	2100	2146	2147	943
35°	1779	1826	1888	1948	1966	1113
45°	1462	1538	1632	1705	1725	1127
55°	1112	1212	1328	1412	1440	996
65°	753	860	994	1092	1122	746
75°	391	505	653	757	799	415
85°	86	214	363	463	504	99
90°	1	121	256	353	387	6
95°	1	115	249	341	374	1
105°	1	99	233	321	350	1
115°	3	86	197	285	317	2
125°	3	73	168	243	273	3
135°	3	58	141	200	224	2
145°	3	42	98	151	170	2
155°	4	29	60	96	112	2
165°	4	19	33	45	58	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2334.0	2334.0	2334.0	2334.0	2334.0
2.5°	2349.9	2342.7	2318.2	2334.0	2326.8
5°	2339.8	2335.5	2315.3	2334.0	2328.3
7.5°	2324.0	2322.5	2306.7	2328.3	2322.5
10°	2302.4	2305.2	2292.3	2315.3	2311.0
12.5°	2275.0	2279.3	2273.6	2299.5	2296.6
15°	2241.9	2249.1	2247.7	2277.9	2277.9
17.5°	2201.6	2211.7	2217.5	2252.0	2252.0
20°	2154.2	2170.0	2181.5	2218.9	2224.7
22.5°	2106.7	2125.4	2142.6	2181.5	2190.1
25°	2046.2	2075.0	2099.5	2145.5	2147.0
27.5°	1987.2	2018.9	2052.0	2096.6	2100.9
30°	1922.5	1962.8	2003.1	2046.2	2059.2
32.5°	1853.4	1898.0	1942.6	2000.2	2017.5
35°	1778.6	1826.1	1887.9	1948.4	1965.6
37.5°	1703.8	1757.0	1828.9	1890.8	1906.7
40°	1627.5	1686.5	1767.1	1830.4	1849.1
42.5°	1542.6	1614.5	1700.9	1768.5	1790.1
45°	1462.0	1538.3	1631.8	1705.2	1725.3
47.5°	1377.1	1457.7	1558.4	1636.1	1659.1
50°	1286.4	1378.5	1486.5	1564.2	1585.8
52.5°	1201.5	1295.1	1408.8	1489.3	1519.6
55°	1112.3	1211.6	1328.2	1411.6	1440.4
57.5°	1028.9	1123.8	1249.0	1332.5	1368.5
60°	933.9	1038.9	1164.1	1254.8	1283.6
62.5°	844.7	951.2	1080.7	1174.2	1207.3
65°	752.6	860.5	994.3	1092.2	1122.4
67.5°	666.2	772.7	909.4	1005.8	1044.7
70°	571.3	683.5	823.1	922.4	955.5
72.5°	477.7	594.3	736.8	843.2	880.7
75°	391.4	505.1	653.3	756.9	798.6
77.5°	307.9	423.1	572.7	679.2	715.2
80°	224.5	345.4	497.9	602.9	637.5
82.5°	148.2	274.8	425.9	531.0	568.4
85°	86.3	214.4	362.6	463.4	503.6
87.5°	37.4	162.6	303.6	402.9	436.0
90°	1.4	120.9	256.1	352.6	387.1
92.5°	1.4	118.0	250.4	345.4	378.5
95°	1.4	115.1	248.9	341.0	374.1
97.5°	1.4	113.7	246.1	338.2	369.8
100°	1.4	109.4	241.7	332.4	364.1
102.5°	1.4	103.6	237.4	326.6	356.9
105°	1.4	99.3	233.1	320.9	349.7
107.5°	1.4	95.0	225.9	313.7	342.5
110°	1.4	90.7	214.4	306.5	335.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	89.2	205.8	296.4	326.6
115°	2.9	86.3	197.1	284.9	316.6
117.5°	2.9	84.9	189.9	273.4	306.5
120°	2.9	80.6	182.8	263.3	295.0
122.5°	2.9	76.3	175.6	253.3	284.9
125°	2.9	73.4	168.4	243.2	273.4
127.5°	2.9	69.1	162.6	233.1	260.5
130°	2.9	66.2	155.4	221.6	248.9
132.5°	2.9	61.9	148.2	210.1	236.0
135°	2.9	57.6	141.0	200.0	224.5
137.5°	2.9	51.8	132.4	188.5	211.5
140°	2.9	47.5	120.9	177.0	198.6
142.5°	2.9	44.6	109.4	164.0	184.2
145°	2.9	41.7	97.9	151.1	169.8
147.5°	2.9	38.9	87.8	138.1	155.4
150°	2.9	34.5	77.7	126.6	141.0
152.5°	4.3	31.7	69.1	112.2	126.6
155°	4.3	28.8	60.4	96.4	112.2
157.5°	4.3	25.9	51.8	80.6	97.9
160°	4.3	23.0	44.6	66.2	83.5
162.5°	4.3	21.6	38.9	54.7	70.5
165°	4.3	18.7	33.1	44.6	57.6
167.5°	4.3	14.4	27.3	34.5	47.5
170°	4.3	11.5	21.6	24.5	36.0
172.5°	4.3	8.6	15.8	17.3	18.7
175°	4.3	7.2	10.1	10.1	5.8
177.5°	4.3	5.8	5.8	5.8	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)