

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: P566905

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566905
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-FDL-UNV-L850-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

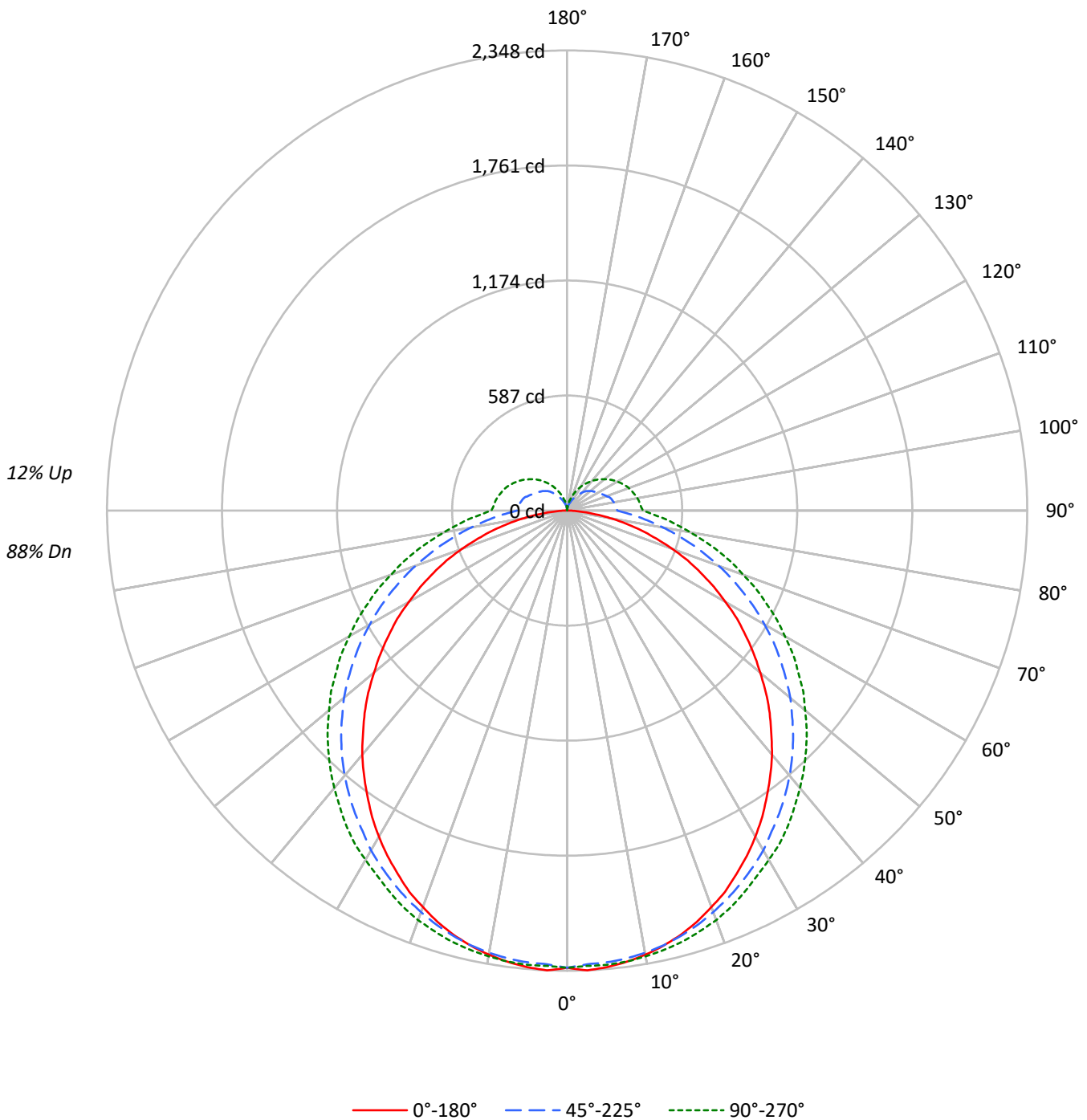
Lumens per Lamp: N/A
Luminaire Lumens: 8398.0 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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°	25108	25108	25108
5°	25243	24731	24781
10°	25104	24499	24523
15°	24899	24220	24285
20°	24568	23885	24011
25°	24170	23545	23646
30°	23737	23204	23334
35°	23188	22795	23116
40°	22656	22455	22781
45°	22012	22062	22498
50°	21266	21647	22141
55°	20557	21131	21822
60°	19736	20582	21430
65°	18737	19952	21047
70°	17467	19262	20613
75°	15661	18505	20466
80°	13128	18036	20302
85°	9524	18409	21397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	2.6
10°-20°	637.0	7.6
20°-30°	969.1	11.5
30°-40°	1178.3	14.0
40°-50°	1246.6	14.8
50°-60°	1168.5	13.9
60°-70°	961.3	11.4
70°-80°	665.1	7.9
80°-90°	369.9	4.4
90°-100°	243.7	2.9
100°-110°	218.5	2.6
110°-120°	180.9	2.2
120°-130°	139.8	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°	1827.5	21.8
0°-40°	3005.8	35.8
0°-60°	5421.0	64.6
0°-90°	7417.3	88.3
90°-120°	643.0	7.7
90°-150°	941.5	11.2
90°-180°	981.0	11.7
0°-180°	8398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2333	2333	2333	2333	2333	
5°	2338	2334	2314	2333	2327	222
15°	2241	2248	2246	2277	2277	632
25°	2045	2074	2098	2144	2146	943
35°	1778	1825	1887	1947	1964	1112
45°	1461	1537	1631	1704	1724	1126
55°	1112	1211	1327	1411	1440	995
65°	752	860	994	1092	1122	746
75°	391	505	653	756	798	415
85°	86	214	362	463	503	99
90°	1	121	256	352	387	6
95°	1	115	249	341	374	1
105°	1	99	233	321	350	1
115°	3	86	197	285	316	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°	2332.6	2332.6	2332.6	2332.6	2332.6
2.5°	2348.5	2341.3	2316.8	2332.6	2325.4
5°	2338.4	2334.1	2313.9	2332.6	2326.9
7.5°	2322.6	2321.1	2305.3	2326.9	2321.1
10°	2301.0	2303.9	2290.9	2313.9	2309.6
12.5°	2273.7	2278.0	2272.2	2298.1	2295.2
15°	2240.6	2247.8	2246.4	2276.6	2276.6
17.5°	2200.3	2210.4	2216.2	2250.7	2250.7
20°	2152.9	2168.7	2180.2	2217.6	2223.3
22.5°	2105.4	2124.1	2141.4	2180.2	2188.8
25°	2045.0	2073.8	2098.2	2144.2	2145.7
27.5°	1986.1	2017.7	2050.8	2095.3	2099.7
30°	1921.3	1961.6	2001.9	2045.0	2058.0
32.5°	1852.3	1896.9	1941.5	1999.0	2016.3
35°	1777.5	1825.0	1886.8	1947.2	1964.5
37.5°	1702.7	1756.0	1827.9	1889.7	1905.5
40°	1626.5	1685.5	1766.0	1829.3	1848.0
42.5°	1541.7	1613.6	1699.9	1767.5	1789.0
45°	1461.1	1537.4	1630.8	1704.2	1724.3
47.5°	1376.3	1456.8	1557.5	1635.1	1658.2
50°	1285.7	1377.7	1485.6	1563.2	1584.8
52.5°	1200.8	1294.3	1407.9	1488.5	1518.7
55°	1111.7	1210.9	1327.4	1410.8	1439.6
57.5°	1028.3	1123.2	1248.3	1331.7	1367.7
60°	933.3	1038.3	1163.4	1254.0	1282.8
62.5°	844.2	950.6	1080.0	1173.5	1206.6
65°	752.1	860.0	993.7	1091.5	1121.7
67.5°	665.9	772.3	908.9	1005.2	1044.1
70°	570.9	683.1	822.6	921.8	954.9
72.5°	477.5	593.9	736.3	842.7	880.1
75°	391.2	504.8	652.9	756.5	798.2
77.5°	307.8	422.8	572.4	678.8	714.7
80°	224.3	345.2	497.6	602.6	637.1
82.5°	148.1	274.7	425.7	530.7	568.1
85°	86.3	214.3	362.4	463.1	503.3
87.5°	37.4	162.5	303.4	402.7	435.8
90°	1.4	120.8	256.0	352.3	386.9
92.5°	1.4	117.9	250.2	345.2	378.2
95°	1.4	115.1	248.8	340.8	373.9
97.5°	1.4	113.6	245.9	338.0	369.6
100°	1.4	109.3	241.6	332.2	363.8
102.5°	1.4	103.5	237.3	326.5	356.7
105°	1.4	99.2	233.0	320.7	349.5
107.5°	1.4	94.9	225.8	313.5	342.3
110°	1.4	90.6	214.3	306.3	335.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	89.2	205.7	296.3	326.5
115°	2.9	86.3	197.0	284.7	316.4
117.5°	2.9	84.8	189.8	273.2	306.3
120°	2.9	80.5	182.6	263.2	294.8
122.5°	2.9	76.2	175.5	253.1	284.7
125°	2.9	73.3	168.3	243.0	273.2
127.5°	2.9	69.0	162.5	233.0	260.3
130°	2.9	66.2	155.3	221.5	248.8
132.5°	2.9	61.8	148.1	210.0	235.9
135°	2.9	57.5	140.9	199.9	224.3
137.5°	2.9	51.8	132.3	188.4	211.4
140°	2.9	47.5	120.8	176.9	198.5
142.5°	2.9	44.6	109.3	163.9	184.1
145°	2.9	41.7	97.8	151.0	169.7
147.5°	2.9	38.8	87.7	138.1	155.3
150°	2.9	34.5	77.7	126.6	140.9
152.5°	4.3	31.6	69.0	112.2	126.6
155°	4.3	28.8	60.4	96.4	112.2
157.5°	4.3	25.9	51.8	80.5	97.8
160°	4.3	23.0	44.6	66.2	83.4
162.5°	4.3	21.6	38.8	54.6	70.5
165°	4.3	18.7	33.1	44.6	57.5
167.5°	4.3	14.4	27.3	34.5	47.5
170°	4.3	11.5	21.6	24.4	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)