

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: P566920

Luminaire Tested: **4SNX-87HL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-87HL-LN-UNV-L840-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

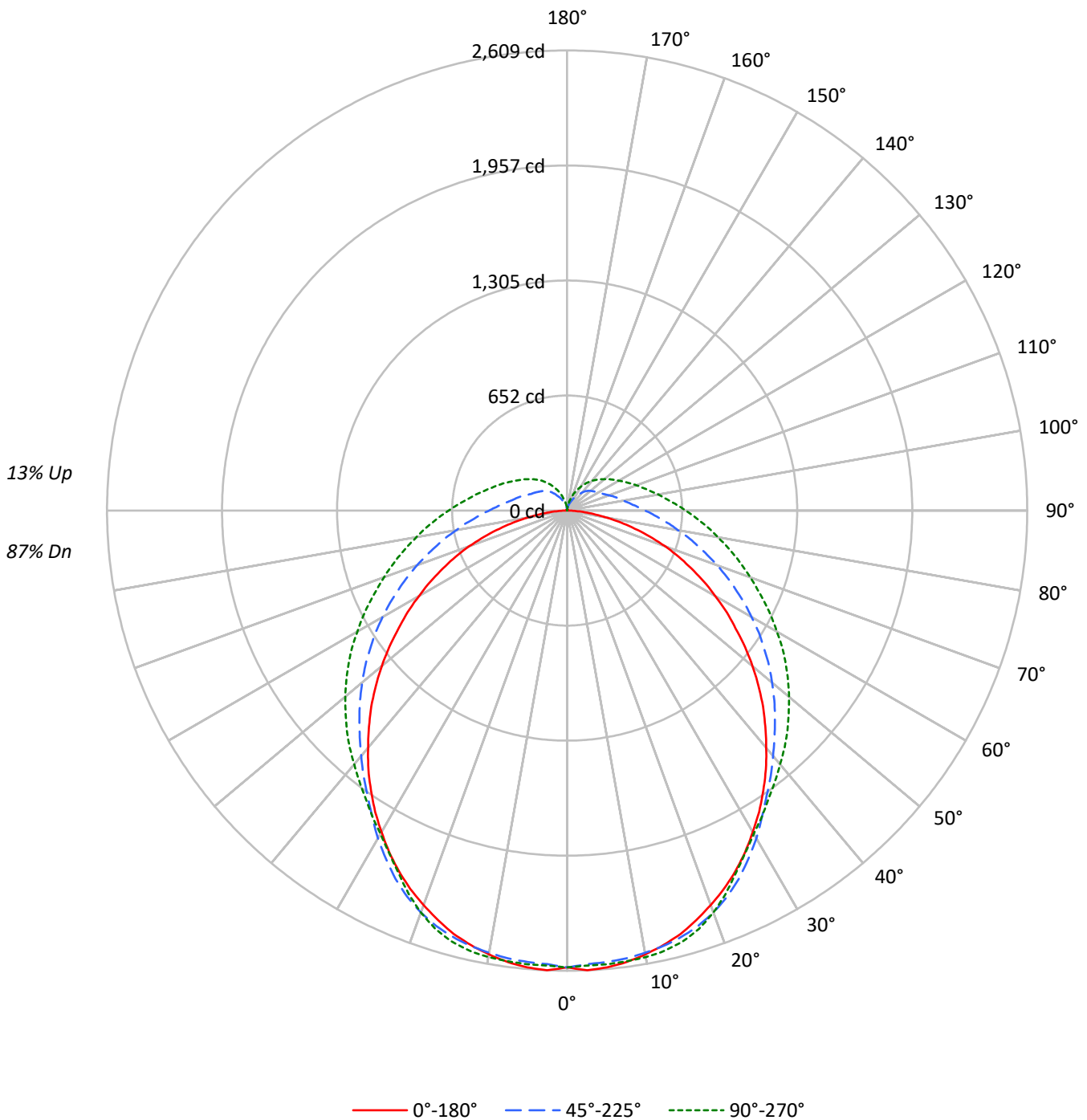
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9349.0 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
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	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27876	27876	27876
5°	27985	26595	26360
10°	27722	25564	25143
15°	27388	24589	23917
20°	26862	23495	22354
25°	26295	22173	20520
30°	25546	20691	18990
35°	24749	19181	17848
40°	23843	17970	16924
45°	22954	16895	16127
50°	21898	15905	15322
55°	20661	14913	14536
60°	19476	13922	13714
65°	18157	12923	12960
70°	16650	11987	12278
75°	14317	11074	11717
80°	11286	10284	11241
85°	7554	9722	10967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.0	2.6
10°-20°	707.4	7.6
20°-30°	1053.3	11.3
30°-40°	1242.9	13.3
40°-50°	1296.2	13.9
50°-60°	1218.1	13.0
60°-70°	1028.7	11.0
70°-80°	777.2	8.3
80°-90°	535.8	5.7
90°-100°	374.9	4.0
100°-110°	279.8	3.0
110°-120°	210.9	2.3
120°-130°	157.3	1.7
130°-140°	110.4	1.2
140°-150°	66.8	0.7
150°-160°	31.9	0.3
160°-170°	10.2	0.1
170°-180°	1.2	0.0
0°-30°	2006.7	21.5
0°-40°	3249.6	34.8
0°-60°	5763.9	61.7
0°-90°	8105.5	86.7
90°-120°	865.6	9.3
90°-150°	1200.1	12.8
90°-180°	1243.0	13.3
0°-180°	9349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2590	2590	2590	2590	2590	
5°	2599	2595	2569	2588	2582	247
15°	2485	2496	2503	2534	2530	700
25°	2257	2303	2303	2282	2265	1038
35°	1938	2010	1972	1988	1992	1212
45°	1571	1648	1666	1734	1766	1210
55°	1166	1266	1363	1472	1512	1047
65°	777	900	1052	1190	1236	771
75°	398	552	764	924	983	424
85°	90	284	529	704	766	101
90°	2	201	442	612	672	6
95°	2	157	374	536	591	1
105°	3	112	288	418	466	3
115°	3	97	224	333	376	3
125°	5	82	189	273	308	4
135°	5	63	157	222	249	4
145°	6	46	109	170	190	4
155°	6	30	67	108	125	3
165°	8	19	35	48	63	2
175°	8	8	10	10	5	1
180°	5	5	5	5	5	



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CATALOG NUMBER: 4SNX-87HL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2589.8	2589.8	2589.8	2589.8	2589.8
2.5°	2608.9	2602.5	2574.0	2589.8	2581.9
5°	2599.4	2594.6	2569.2	2588.3	2581.9
7.5°	2581.9	2580.3	2561.3	2583.5	2577.2
10°	2555.0	2559.7	2545.5	2575.6	2570.8
12.5°	2523.3	2532.8	2528.0	2561.3	2556.6
15°	2485.2	2496.3	2502.7	2534.4	2529.6
17.5°	2434.5	2455.1	2469.4	2494.7	2486.8
20°	2380.6	2409.2	2425.0	2437.7	2425.0
22.5°	2322.0	2360.0	2369.5	2363.2	2350.5
25°	2257.0	2303.0	2303.0	2282.4	2264.9
27.5°	2184.1	2241.2	2225.3	2201.5	2187.3
30°	2104.8	2173.0	2146.1	2119.1	2115.9
32.5°	2025.6	2096.9	2057.3	2051.0	2055.7
35°	1938.4	2009.7	1971.7	1987.6	1992.3
37.5°	1851.2	1922.6	1897.2	1921.0	1935.3
40°	1756.2	1832.2	1816.4	1859.2	1878.2
42.5°	1662.6	1741.9	1740.3	1795.8	1824.3
45°	1570.7	1648.4	1665.8	1734.0	1765.7
47.5°	1470.9	1550.1	1592.9	1672.1	1703.8
50°	1372.6	1458.2	1516.8	1605.6	1642.0
52.5°	1271.1	1361.5	1442.3	1540.6	1578.6
55°	1166.5	1266.4	1363.1	1472.4	1512.1
57.5°	1073.0	1174.5	1288.6	1401.1	1447.1
60°	970.0	1082.5	1207.7	1326.6	1372.6
62.5°	876.5	992.2	1131.7	1256.9	1306.0
65°	776.6	900.3	1052.4	1190.3	1236.3
67.5°	684.7	811.5	977.9	1117.4	1168.1
70°	589.6	724.3	905.0	1052.4	1104.7
72.5°	491.3	634.0	832.1	989.0	1042.9
75°	397.8	551.6	764.0	924.0	982.7
77.5°	310.7	472.3	702.1	867.0	924.0
80°	225.1	401.0	637.2	808.3	867.0
82.5°	149.0	339.2	584.9	756.0	817.8
85°	90.3	283.7	529.4	703.7	765.5
87.5°	41.2	237.7	485.0	657.8	718.0
90°	1.6	201.3	442.2	611.8	672.0
92.5°	1.6	175.9	407.3	572.2	630.8
95°	1.6	156.9	374.1	535.7	591.2
97.5°	1.6	144.2	348.7	500.9	554.7
100°	1.6	131.6	323.3	469.2	524.6
102.5°	3.2	120.5	304.3	440.6	492.9
105°	3.2	112.5	288.5	418.4	466.0
107.5°	3.2	107.8	271.0	396.2	440.6
110°	3.2	103.0	252.0	374.1	418.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	99.9	237.7	355.0	397.8
115°	3.2	96.7	223.5	332.8	375.6
117.5°	3.2	95.1	215.6	315.4	356.6
120°	4.8	90.3	206.0	299.6	339.2
122.5°	4.8	85.6	196.5	286.9	321.7
125°	4.8	82.4	188.6	272.6	307.5
127.5°	4.8	77.7	180.7	259.9	291.6
130°	4.8	72.9	174.3	247.3	277.4
132.5°	4.8	68.2	166.4	234.6	263.1
135°	4.8	63.4	156.9	221.9	248.8
137.5°	4.8	58.6	147.4	209.2	234.6
140°	4.8	53.9	134.7	196.5	220.3
142.5°	4.8	49.1	122.0	183.9	204.5
145°	6.3	46.0	109.4	169.6	190.2
147.5°	6.3	41.2	96.7	155.3	172.8
150°	6.3	38.0	87.2	141.1	156.9
152.5°	6.3	33.3	77.7	125.2	141.1
155°	6.3	30.1	66.6	107.8	125.2
157.5°	6.3	26.9	57.1	90.3	109.4
160°	6.3	25.4	49.1	74.5	93.5
162.5°	7.9	22.2	41.2	60.2	77.7
165°	7.9	19.0	34.9	47.5	63.4
167.5°	7.9	15.8	28.5	36.5	49.1
170°	7.9	12.7	22.2	25.4	38.0
172.5°	7.9	9.5	15.8	17.4	19.0
175°	7.9	7.9	9.5	9.5	4.8
177.5°	7.9	7.9	6.3	4.8	1.6
180°	4.8	4.8	4.8	4.8	4.8

(END OF REPORT)