

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: P566942

Luminaire Tested: **4SNX-87HL-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-17)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-87HL-UNV-L830-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

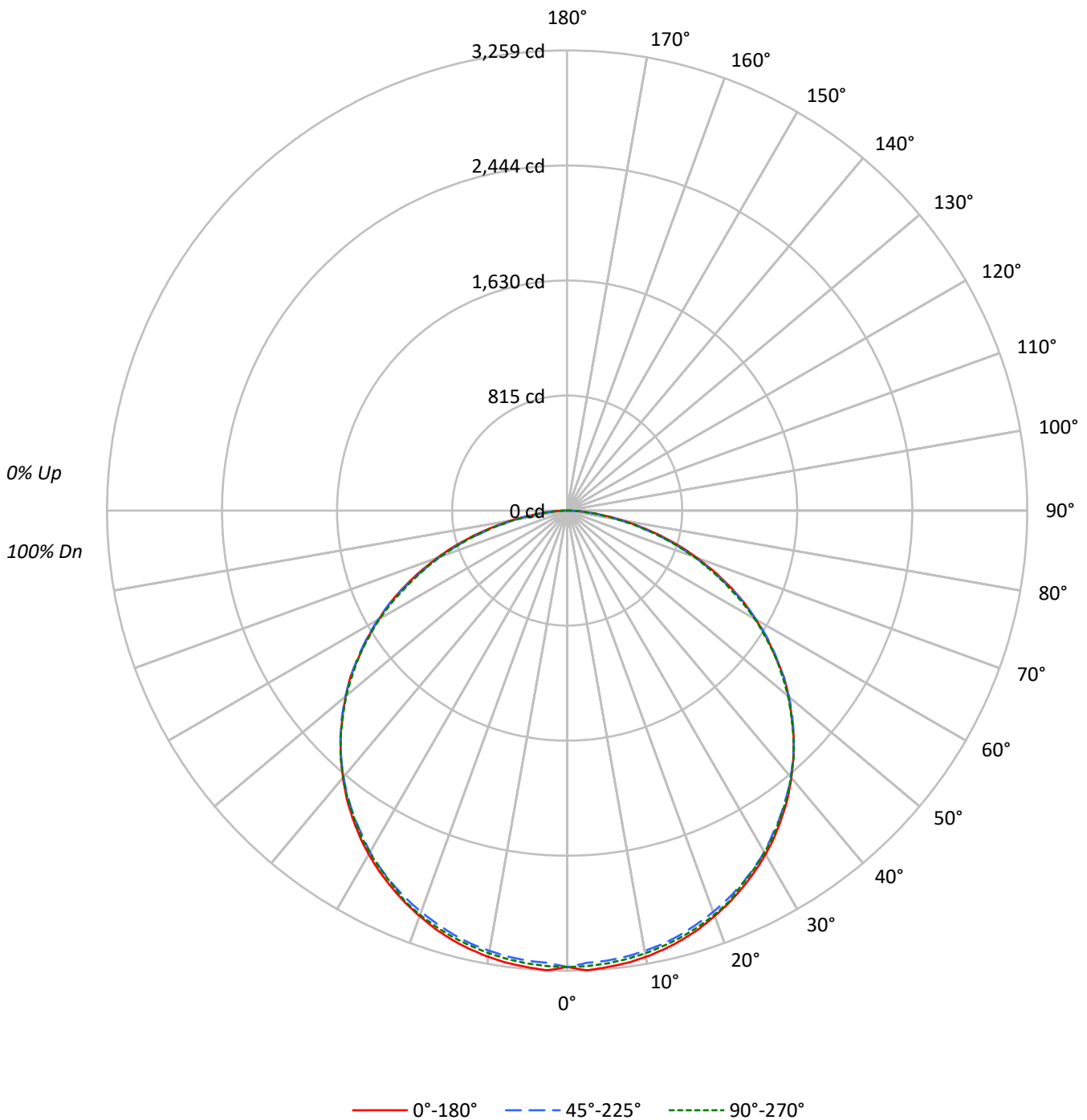
Lumens per Lamp: N/A
Luminaire Lumens: 9675.0 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 62.2
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

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34790	34790	34790
5°	35071	34583	34790
10°	35087	34609	34803
15°	35072	34646	34844
20°	35001	34641	34892
25°	34959	34682	34748
30°	34936	34714	34749
35°	34849	34634	34688
40°	34710	34634	34652
45°	34522	34584	34522
50°	34288	34357	34173
55°	33753	33933	33753
60°	33185	33332	33039
65°	32364	31980	31633
70°	30820	30134	30046
75°	28442	27078	27191
80°	24336	22805	23233
85°	18081	17735	16549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.7	3.2
10°-20°	883.8	9.1
20°-30°	1353.0	14.0
30°-40°	1655.1	17.1
40°-50°	1750.6	18.1
50°-60°	1613.0	16.7
60°-70°	1241.4	12.8
70°-80°	697.5	7.2
80°-90°	174.0	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2543.5	26.3
0°-40°	4198.6	43.4
0°-60°	7562.1	78.2
0°-90°	9675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3232	3232	3232	3232	3232	
5°	3246	3236	3201	3229	3220	309
15°	3147	3139	3109	3136	3127	888
25°	2944	2941	2920	2941	2926	1358
35°	2652	2648	2636	2648	2640	1660
45°	2268	2275	2272	2266	2268	1749
55°	1799	1815	1808	1803	1799	1611
65°	1271	1273	1256	1238	1242	1253
75°	684	673	651	642	654	720
85°	146	144	144	140	134	181
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3232.1	3232.1	3232.1	3232.1	3232.1
2.5°	3259.4	3241.7	3206.1	3237.6	3229.4
5°	3245.8	3236.2	3200.6	3229.4	3219.8
7.5°	3232.1	3221.1	3187.0	3218.4	3204.7
10°	3210.2	3200.6	3166.4	3196.5	3184.2
12.5°	3181.5	3173.3	3141.8	3170.5	3158.2
15°	3147.3	3139.1	3109.0	3136.3	3126.8
17.5°	3106.3	3096.7	3068.0	3096.7	3089.8
20°	3055.6	3050.2	3024.2	3050.2	3046.1
22.5°	3003.7	2996.8	2976.3	2995.5	2996.8
25°	2943.5	2940.7	2920.2	2940.7	2925.7
27.5°	2880.6	2880.6	2860.0	2873.7	2864.2
30°	2810.8	2809.4	2793.0	2799.9	2795.8
32.5°	2735.6	2734.2	2712.3	2730.1	2723.3
35°	2652.1	2648.0	2635.7	2648.0	2639.8
37.5°	2566.0	2561.9	2552.3	2559.1	2557.8
40°	2470.2	2470.2	2464.8	2470.2	2466.1
42.5°	2371.7	2375.9	2369.0	2374.5	2374.5
45°	2267.8	2274.6	2271.9	2266.4	2267.8
47.5°	2157.0	2169.3	2162.5	2161.1	2154.3
50°	2047.6	2058.5	2051.7	2044.8	2040.7
52.5°	1934.1	1939.5	1931.3	1928.6	1919.0
55°	1798.6	1815.1	1808.2	1802.7	1798.6
57.5°	1674.2	1686.5	1681.0	1670.1	1663.2
60°	1541.5	1551.1	1548.3	1536.0	1534.7
62.5°	1411.6	1414.3	1411.6	1389.7	1391.0
65°	1270.7	1273.4	1255.6	1237.8	1242.0
67.5°	1123.0	1131.2	1106.5	1080.6	1098.3
70°	979.3	976.6	957.5	928.7	954.7
72.5°	831.6	828.9	807.0	786.5	804.3
75°	683.9	673.0	651.1	641.5	653.8
77.5°	530.7	518.4	508.8	502.0	507.5
80°	392.6	376.1	367.9	362.5	374.8
82.5°	261.2	248.9	244.8	248.9	246.2
85°	146.4	143.6	143.6	139.5	134.0
87.5°	60.2	62.9	64.3	62.9	60.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)