

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: P567024

Luminaire Tested: **4SNX-93HL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567024
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-93HL-LW-UNV-L840-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

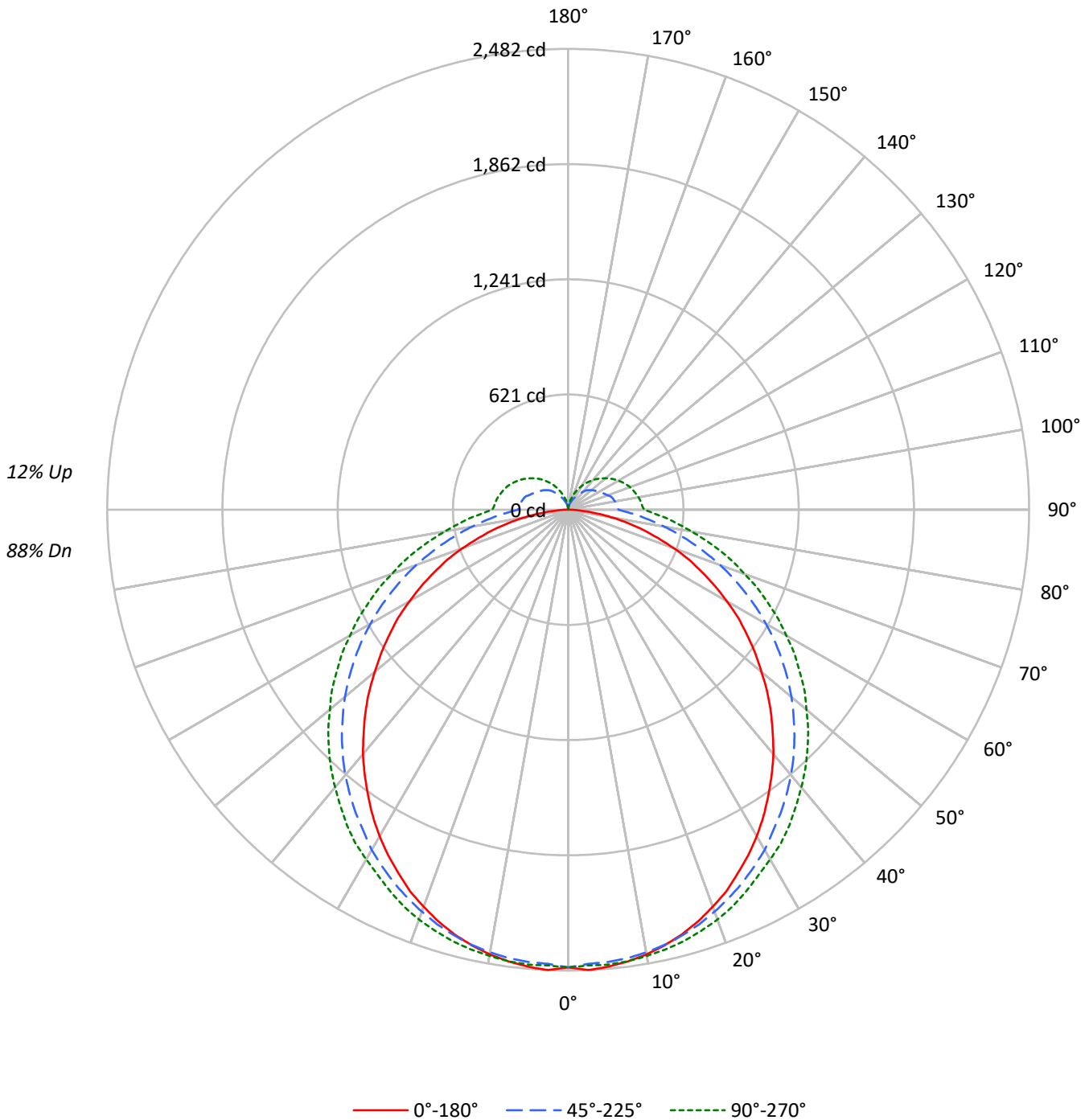
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8873.9 lumens
Efficiency: N/A
Efficacy: 131.7 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): 67.4
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	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°	26532	26532	26532
5°	26601	25310	25103
10°	26381	24312	23869
15°	26092	23322	22744
20°	25669	22320	21657
25°	25175	21347	20542
30°	24641	20394	19516
35°	23982	19396	18596
40°	23334	18462	17595
45°	22563	17478	16641
50°	21674	16461	15627
55°	20807	15345	14624
60°	19802	14172	13543
65°	18583	12895	12425
70°	17036	11512	11214
75°	14875	10000	10056
80°	11888	8486	8728
85°	7630	7032	7621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.0	2.6
10°-20°	673.1	7.6
20°-30°	1024.0	11.5
30°-40°	1245.1	14.0
40°-50°	1317.3	14.8
50°-60°	1234.7	13.9
60°-70°	1015.8	11.4
70°-80°	702.8	7.9
80°-90°	390.8	4.4
90°-100°	257.5	2.9
100°-110°	230.9	2.6
110°-120°	191.1	2.2
120°-130°	147.7	1.7
130°-140°	104.6	1.2
140°-150°	63.1	0.7
150°-160°	30.3	0.3
160°-170°	9.9	0.1
170°-180°	1.2	0.0
0°-30°	1931.1	21.8
0°-40°	3176.2	35.8
0°-60°	5728.2	64.6
0°-90°	7837.7	88.3
90°-120°	679.5	7.7
90°-150°	994.9	11.2
90°-180°	1036.0	11.7
0°-180°	8873.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2465	2465	2465	2465	2465	
5°	2471	2466	2445	2465	2459	235
15°	2368	2375	2374	2406	2406	667
25°	2161	2191	2217	2266	2267	996
35°	1878	1928	1994	2058	2076	1176
45°	1544	1624	1723	1801	1822	1190
55°	1175	1280	1403	1491	1521	1052
65°	795	909	1050	1153	1185	788
75°	413	533	690	799	843	438
85°	91	226	383	489	532	105
90°	2	128	270	372	409	6
95°	2	122	263	360	395	1
105°	2	105	246	339	369	2
115°	3	91	208	301	334	2
125°	3	78	178	257	289	3
135°	3	61	149	211	237	2
145°	3	44	103	160	179	2
155°	5	30	64	102	118	2
165°	5	20	35	47	61	1
175°	5	8	11	11	6	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2464.9	2464.9	2464.9	2464.9	2464.9
2.5°	2481.6	2474.0	2448.1	2464.9	2457.3
5°	2470.9	2466.4	2445.1	2464.9	2458.8
7.5°	2454.2	2452.7	2436.0	2458.8	2452.7
10°	2431.4	2434.5	2420.8	2445.1	2440.5
12.5°	2402.5	2407.1	2401.0	2428.4	2425.3
15°	2367.6	2375.2	2373.7	2405.6	2405.6
17.5°	2325.0	2335.7	2341.8	2378.2	2378.2
20°	2274.9	2291.6	2303.8	2343.3	2349.4
22.5°	2224.8	2244.5	2262.7	2303.8	2312.9
25°	2160.9	2191.3	2217.2	2265.8	2267.3
27.5°	2098.6	2132.1	2167.0	2214.1	2218.7
30°	2030.2	2072.8	2115.3	2160.9	2174.6
32.5°	1957.3	2004.4	2051.5	2112.3	2130.5
35°	1878.3	1928.4	1993.8	2057.6	2075.8
37.5°	1799.3	1855.5	1931.5	1996.8	2013.5
40°	1718.7	1781.0	1866.1	1933.0	1952.7
42.5°	1629.1	1705.0	1796.2	1867.6	1890.4
45°	1544.0	1624.5	1723.3	1800.8	1822.0
47.5°	1454.3	1539.4	1645.8	1727.8	1752.1
50°	1358.6	1455.8	1569.8	1651.8	1674.6
52.5°	1268.9	1367.7	1487.7	1572.8	1604.7
55°	1174.7	1279.5	1402.6	1490.8	1521.2
57.5°	1086.5	1186.8	1319.0	1407.2	1445.2
60°	986.2	1097.2	1229.4	1325.1	1355.5
62.5°	892.0	1004.5	1141.2	1240.0	1275.0
65°	794.8	908.7	1050.1	1153.4	1185.3
67.5°	703.6	816.0	960.4	1062.2	1103.3
70°	603.3	721.8	869.2	974.1	1009.0
72.5°	504.5	627.6	778.1	890.5	930.0
75°	413.3	533.4	689.9	799.3	843.4
77.5°	325.2	446.8	604.8	717.3	755.3
80°	237.1	364.7	525.8	636.7	673.2
82.5°	156.5	290.3	449.8	560.7	600.3
85°	91.2	226.4	382.9	489.3	531.9
87.5°	39.5	171.7	320.6	425.5	460.5
90°	1.5	127.6	270.5	372.3	408.8
92.5°	1.5	124.6	264.4	364.7	399.7
95°	1.5	121.6	262.9	360.2	395.1
97.5°	1.5	120.1	259.9	357.1	390.5
100°	1.5	115.5	255.3	351.0	384.5
102.5°	1.5	109.4	250.7	345.0	376.9
105°	1.5	104.9	246.2	338.9	369.3
107.5°	1.5	100.3	238.6	331.3	361.7
110°	1.5	95.7	226.4	323.7	354.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	94.2	217.3	313.0	345.0
115°	3.0	91.2	208.2	300.9	334.3
117.5°	3.0	89.7	200.6	288.7	323.7
120°	3.0	85.1	193.0	278.1	311.5
122.5°	3.0	80.5	185.4	267.5	300.9
125°	3.0	77.5	177.8	256.8	288.7
127.5°	3.0	72.9	171.7	246.2	275.1
130°	3.0	69.9	164.1	234.0	262.9
132.5°	3.0	65.3	156.5	221.9	249.2
135°	3.0	60.8	148.9	211.2	237.1
137.5°	3.0	54.7	139.8	199.1	223.4
140°	3.0	50.1	127.6	186.9	209.7
142.5°	3.0	47.1	115.5	173.2	194.5
145°	3.0	44.1	103.3	159.6	179.3
147.5°	3.0	41.0	92.7	145.9	164.1
150°	3.0	36.5	82.1	133.7	148.9
152.5°	4.6	33.4	72.9	118.5	133.7
155°	4.6	30.4	63.8	101.8	118.5
157.5°	4.6	27.4	54.7	85.1	103.3
160°	4.6	24.3	47.1	69.9	88.1
162.5°	4.6	22.8	41.0	57.7	74.5
165°	4.6	19.8	35.0	47.1	60.8
167.5°	4.6	15.2	28.9	36.5	50.1
170°	4.6	12.2	22.8	25.8	38.0
172.5°	4.6	9.1	16.7	18.2	19.8
175°	4.6	7.6	10.6	10.6	6.1
177.5°	4.6	6.1	6.1	6.1	3.0
180°	3.0	3.0	3.0	3.0	3.0

(END OF REPORT)