

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: P566872

Luminaire Tested: **4SNX-84HL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566872
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-84HL-LN-UNV-L840-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

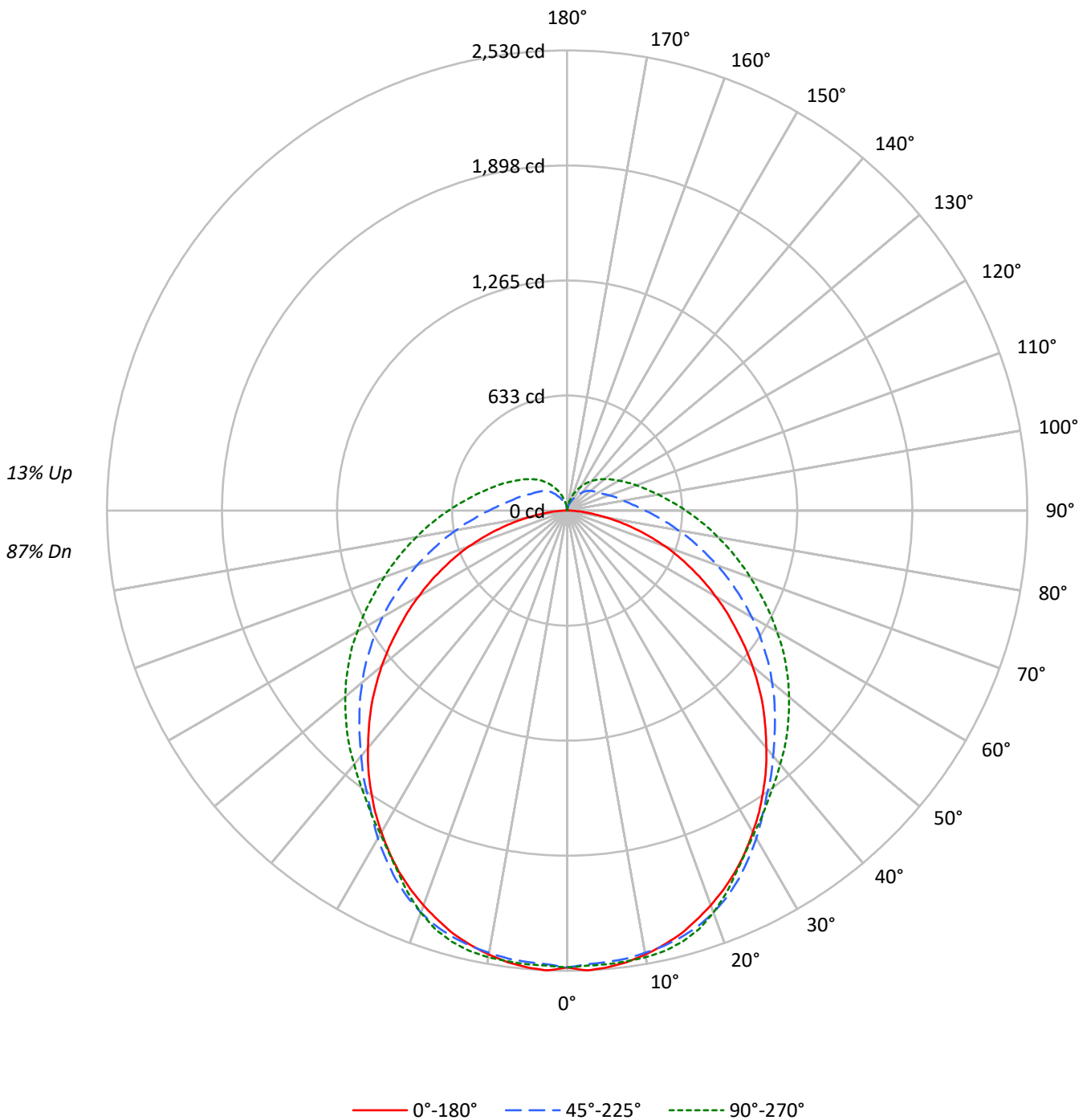
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9068.0 lumens
Efficiency: N/A
Efficacy: 156.6 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): 57.9
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°	27039	27039	27039
5°	27143	25796	25568
10°	26889	24796	24388
15°	26565	23850	23198
20°	26055	22788	21682
25°	25505	21506	19904
30°	24779	20069	18419
35°	24006	18605	17311
40°	23126	17430	16415
45°	22264	16387	15642
50°	21239	15427	14862
55°	20041	14464	14099
60°	18890	13503	13301
65°	17612	12535	12570
70°	16150	11626	11909
75°	13889	10740	11364
80°	10945	9974	10903
85°	7328	9430	10638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.6	2.6
10°-20°	686.1	7.6
20°-30°	1021.7	11.3
30°-40°	1205.5	13.3
40°-50°	1257.2	13.9
50°-60°	1181.5	13.0
60°-70°	997.7	11.0
70°-80°	753.9	8.3
80°-90°	519.7	5.7
90°-100°	363.7	4.0
100°-110°	271.4	3.0
110°-120°	204.6	2.3
120°-130°	152.6	1.7
130°-140°	107.1	1.2
140°-150°	64.8	0.7
150°-160°	31.0	0.3
160°-170°	9.9	0.1
170°-180°	1.2	0.0
0°-30°	1946.4	21.5
0°-40°	3151.9	34.8
0°-60°	5590.6	61.7
0°-90°	7861.9	86.7
90°-120°	839.6	9.3
90°-150°	1164.0	12.8
90°-180°	1206.0	13.3
0°-180°	9068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2512	2512	2512	2512	2512	
5°	2521	2517	2492	2510	2504	239
15°	2410	2421	2428	2458	2454	679
25°	2189	2234	2234	2214	2197	1007
35°	1880	1949	1912	1928	1932	1176
45°	1524	1599	1616	1682	1713	1173
55°	1132	1228	1322	1428	1467	1015
65°	753	873	1021	1154	1199	748
75°	386	535	741	896	953	411
85°	88	275	514	683	742	98
90°	2	195	429	593	652	6
95°	2	152	363	520	573	1
105°	3	109	280	406	452	3
115°	3	94	217	323	364	3
125°	5	80	183	264	298	4
135°	5	62	152	215	241	4
145°	6	45	106	164	184	3
155°	6	29	65	104	121	3
165°	8	18	34	46	62	2
175°	8	8	9	9	5	1
180°	5	5	5	5	5	



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CATALOG NUMBER: 4SNX-84HL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2512.0	2512.0	2512.0	2512.0	2512.0
2.5°	2530.5	2524.3	2496.6	2512.0	2504.3
5°	2521.2	2516.6	2492.0	2510.5	2504.3
7.5°	2504.3	2502.8	2484.3	2505.9	2499.7
10°	2478.2	2482.8	2469.0	2498.2	2493.6
12.5°	2447.4	2456.7	2452.0	2484.3	2479.7
15°	2410.5	2421.3	2427.5	2458.2	2453.6
17.5°	2361.3	2381.3	2395.2	2419.8	2412.1
20°	2309.1	2336.7	2352.1	2364.4	2352.1
22.5°	2252.2	2289.1	2298.3	2292.2	2279.9
25°	2189.2	2233.7	2233.7	2213.8	2196.9
27.5°	2118.4	2173.8	2158.4	2135.4	2121.5
30°	2041.6	2107.7	2081.6	2055.4	2052.3
32.5°	1964.7	2033.9	1995.5	1989.3	1993.9
35°	1880.2	1949.3	1912.4	1927.8	1932.4
37.5°	1795.6	1864.8	1840.2	1863.2	1877.1
40°	1703.4	1777.2	1761.8	1803.3	1821.7
42.5°	1612.7	1689.5	1688.0	1741.8	1769.5
45°	1523.5	1598.8	1615.7	1681.8	1712.6
47.5°	1426.6	1503.5	1545.0	1621.9	1652.6
50°	1331.3	1414.3	1471.2	1557.3	1592.7
52.5°	1232.9	1320.6	1399.0	1494.3	1531.2
55°	1131.5	1228.3	1322.1	1428.2	1466.6
57.5°	1040.8	1139.2	1249.9	1359.0	1403.6
60°	940.8	1050.0	1171.4	1286.7	1331.3
62.5°	850.1	962.4	1097.7	1219.1	1266.8
65°	753.3	873.2	1020.8	1154.5	1199.1
67.5°	664.1	787.1	948.5	1083.8	1133.0
70°	571.9	702.6	877.8	1020.8	1071.5
72.5°	476.6	614.9	807.1	959.3	1011.6
75°	385.9	535.0	741.0	896.3	953.1
77.5°	301.3	458.1	681.0	840.9	896.3
80°	218.3	388.9	618.0	784.0	840.9
82.5°	144.5	329.0	567.3	733.3	793.3
85°	87.6	275.2	513.5	682.6	742.5
87.5°	40.0	230.6	470.4	638.0	696.4
90°	1.5	195.2	428.9	593.4	651.8
92.5°	1.5	170.6	395.1	555.0	611.9
95°	1.5	152.2	362.8	519.6	573.4
97.5°	1.5	139.9	338.2	485.8	538.1
100°	1.5	127.6	313.6	455.1	508.9
102.5°	3.1	116.8	295.2	427.4	478.1
105°	3.1	109.2	279.8	405.9	452.0
107.5°	3.1	104.5	262.9	384.3	427.4
110°	3.1	99.9	244.4	362.8	405.9



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CATALOG NUMBER: 4SNX-84HL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	96.9	230.6	344.4	385.9
115°	3.1	93.8	216.8	322.8	364.3
117.5°	3.1	92.2	209.1	305.9	345.9
120°	4.6	87.6	199.9	290.6	329.0
122.5°	4.6	83.0	190.6	278.3	312.1
125°	4.6	79.9	182.9	264.4	298.2
127.5°	4.6	75.3	175.3	252.1	282.9
130°	4.6	70.7	169.1	239.8	269.0
132.5°	4.6	66.1	161.4	227.5	255.2
135°	4.6	61.5	152.2	215.2	241.4
137.5°	4.6	56.9	143.0	202.9	227.5
140°	4.6	52.3	130.7	190.6	213.7
142.5°	4.6	47.7	118.4	178.3	198.3
145°	6.1	44.6	106.1	164.5	184.5
147.5°	6.1	40.0	93.8	150.7	167.6
150°	6.1	36.9	84.6	136.8	152.2
152.5°	6.1	32.3	75.3	121.4	136.8
155°	6.1	29.2	64.6	104.5	121.4
157.5°	6.1	26.1	55.3	87.6	106.1
160°	6.1	24.6	47.7	72.3	90.7
162.5°	7.7	21.5	40.0	58.4	75.3
165°	7.7	18.4	33.8	46.1	61.5
167.5°	7.7	15.4	27.7	35.4	47.7
170°	7.7	12.3	21.5	24.6	36.9
172.5°	7.7	9.2	15.4	16.9	18.4
175°	7.7	7.7	9.2	9.2	4.6
177.5°	7.7	7.7	6.1	4.6	1.5
180°	4.6	4.6	4.6	4.6	4.6

(END OF REPORT)