

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: P566880

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566880
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-84HL-LW-UNV-L840-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

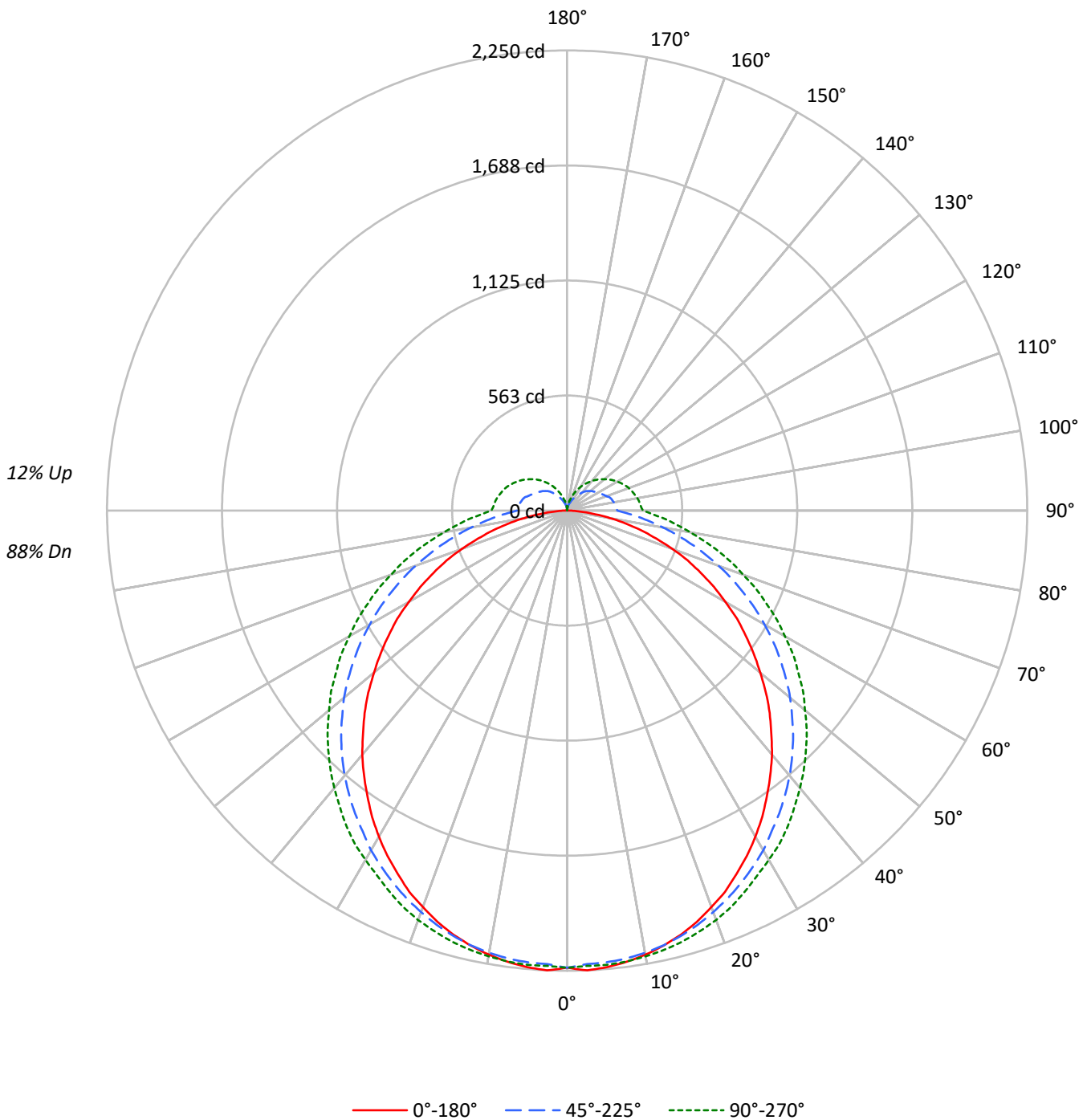
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8047.0 lumens
Efficiency: N/A
Efficacy: 139.0 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: 0.17')
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	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°	24058	24058	24058
5°	24123	22951	22763
10°	23923	22046	21645
15°	23661	21148	20624
20°	23277	20240	19638
25°	22829	19357	18628
30°	22344	18494	17697
35°	21746	17589	16863
40°	21159	16741	15956
45°	20460	15850	15090
50°	19653	14927	14171
55°	18867	13915	13261
60°	17956	12851	12281
65°	16850	11693	11268
70°	15449	10440	10169
75°	13490	9068	9119
80°	10780	7695	7915
85°	6919	6378	6910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.2	2.6
10°-20°	610.4	7.6
20°-30°	928.6	11.5
30°-40°	1129.0	14.0
40°-50°	1194.5	14.8
50°-60°	1119.7	13.9
60°-70°	921.1	11.4
70°-80°	637.3	7.9
80°-90°	354.4	4.4
90°-100°	233.5	2.9
100°-110°	209.4	2.6
110°-120°	173.3	2.2
120°-130°	134.0	1.7
130°-140°	94.8	1.2
140°-150°	57.2	0.7
150°-160°	27.5	0.3
160°-170°	9.0	0.1
170°-180°	1.1	0.0
0°-30°	1751.1	21.8
0°-40°	2880.2	35.8
0°-60°	5194.4	64.6
0°-90°	7107.2	88.3
90°-120°	616.1	7.7
90°-150°	902.2	11.2
90°-180°	940.0	11.7
0°-180°	8047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2235	2235	2235	2235	2235	
5°	2241	2236	2217	2235	2230	213
15°	2147	2154	2152	2181	2181	605
25°	1960	1987	2010	2055	2056	903
35°	1703	1749	1808	1866	1882	1066
45°	1400	1473	1563	1633	1652	1079
55°	1065	1160	1272	1352	1379	954
65°	721	824	952	1046	1075	715
75°	375	484	626	725	765	398
85°	83	205	347	444	482	95
90°	1	116	245	338	371	5
95°	1	110	238	327	358	1
105°	1	95	223	307	335	1
115°	3	83	189	273	303	2
125°	3	70	161	233	262	3
135°	3	55	135	192	215	2
145°	3	40	94	145	163	2
155°	4	28	58	92	108	2
165°	4	18	32	43	55	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°	2235.1	2235.1	2235.1	2235.1	2235.1
2.5°	2250.3	2243.4	2220.0	2235.1	2228.3
5°	2240.7	2236.5	2217.2	2235.1	2229.6
7.5°	2225.5	2224.1	2209.0	2229.6	2224.1
10°	2204.8	2207.6	2195.2	2217.2	2213.1
12.5°	2178.6	2182.8	2177.3	2202.1	2199.3
15°	2147.0	2153.8	2152.5	2181.4	2181.4
17.5°	2108.4	2118.0	2123.5	2156.6	2156.6
20°	2062.9	2078.1	2089.1	2124.9	2130.4
22.5°	2017.4	2035.3	2051.9	2089.1	2097.3
25°	1959.5	1987.1	2010.5	2054.6	2056.0
27.5°	1903.0	1933.4	1965.1	2007.8	2011.9
30°	1841.0	1879.6	1918.2	1959.5	1971.9
32.5°	1774.9	1817.6	1860.3	1915.4	1932.0
35°	1703.2	1748.7	1808.0	1865.8	1882.4
37.5°	1631.6	1682.6	1751.5	1810.7	1825.9
40°	1558.5	1615.0	1692.2	1752.8	1770.8
42.5°	1477.2	1546.1	1628.8	1693.6	1714.3
45°	1400.1	1473.1	1562.7	1633.0	1652.2
47.5°	1318.8	1395.9	1492.4	1566.8	1588.9
50°	1231.9	1320.1	1423.5	1497.9	1518.6
52.5°	1150.6	1240.2	1349.1	1426.2	1455.2
55°	1065.2	1160.3	1271.9	1351.8	1379.4
57.5°	985.3	1076.2	1196.1	1276.0	1310.5
60°	894.3	994.9	1114.8	1201.6	1229.2
62.5°	808.9	910.9	1034.9	1124.5	1156.2
65°	720.7	824.1	952.2	1045.9	1074.9
67.5°	638.0	740.0	870.9	963.2	1000.4
70°	547.1	654.6	788.2	883.3	915.0
72.5°	457.5	569.1	705.5	807.5	843.3
75°	374.8	483.7	625.6	724.8	764.8
77.5°	294.9	405.1	548.5	650.4	684.9
80°	215.0	330.7	476.8	577.4	610.5
82.5°	141.9	263.2	407.9	508.5	544.3
85°	82.7	205.3	347.3	443.7	482.3
87.5°	35.8	155.7	290.8	385.8	417.5
90°	1.4	115.8	245.3	337.6	370.7
92.5°	1.4	113.0	239.8	330.7	362.4
95°	1.4	110.2	238.4	326.6	358.3
97.5°	1.4	108.9	235.6	323.8	354.2
100°	1.4	104.7	231.5	318.3	348.6
102.5°	1.4	99.2	227.4	312.8	341.7
105°	1.4	95.1	223.2	307.3	334.9
107.5°	1.4	90.9	216.3	300.4	328.0
110°	1.4	86.8	205.3	293.5	321.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	85.4	197.1	283.9	312.8
115°	2.8	82.7	188.8	272.8	303.2
117.5°	2.8	81.3	181.9	261.8	293.5
120°	2.8	77.2	175.0	252.2	282.5
122.5°	2.8	73.0	168.1	242.5	272.8
125°	2.8	70.3	161.2	232.9	261.8
127.5°	2.8	66.1	155.7	223.2	249.4
130°	2.8	63.4	148.8	212.2	238.4
132.5°	2.8	59.3	141.9	201.2	226.0
135°	2.8	55.1	135.0	191.5	215.0
137.5°	2.8	49.6	126.8	180.5	202.6
140°	2.8	45.5	115.8	169.5	190.2
142.5°	2.8	42.7	104.7	157.1	176.4
145°	2.8	40.0	93.7	144.7	162.6
147.5°	2.8	37.2	84.1	132.3	148.8
150°	2.8	33.1	74.4	121.3	135.0
152.5°	4.1	30.3	66.1	107.5	121.3
155°	4.1	27.6	57.9	92.3	107.5
157.5°	4.1	24.8	49.6	77.2	93.7
160°	4.1	22.0	42.7	63.4	79.9
162.5°	4.1	20.7	37.2	52.4	67.5
165°	4.1	17.9	31.7	42.7	55.1
167.5°	4.1	13.8	26.2	33.1	45.5
170°	4.1	11.0	20.7	23.4	34.5
172.5°	4.1	8.3	15.2	16.5	17.9
175°	4.1	6.9	9.6	9.6	5.5
177.5°	4.1	5.5	5.5	5.5	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)