

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: P566952

Luminaire Tested: **4SNX-90HL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566952
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-90HL-FDL-UNV-L840-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

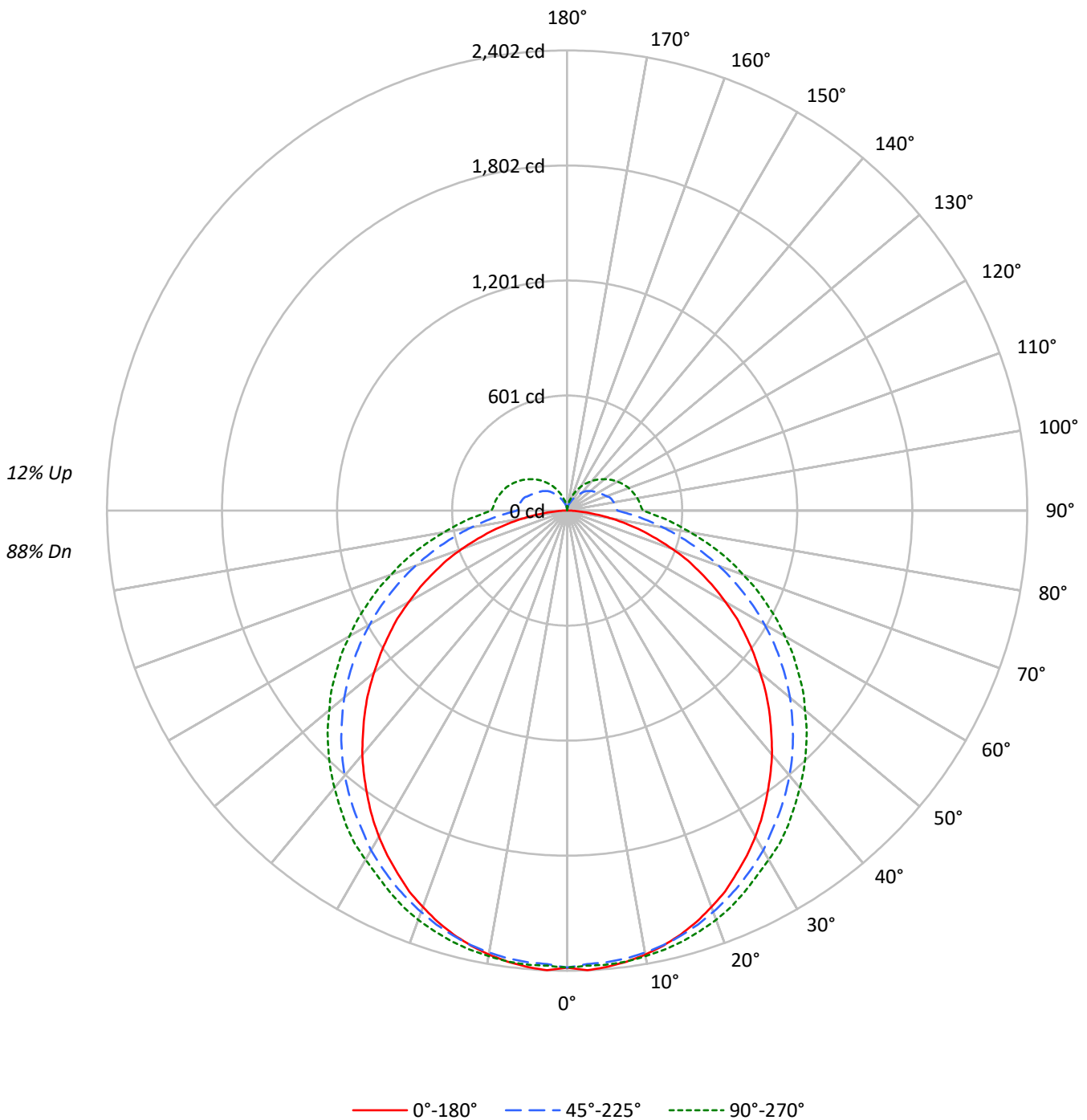
Lumens per Lamp: N/A
Luminaire Lumens: 8588.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 64.4
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	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°	25676	25676	25676
5°	25815	25291	25341
10°	25672	25054	25078
15°	25462	24768	24834
20°	25123	24425	24554
25°	24718	24078	24181
30°	24275	23729	23861
35°	23712	23310	23639
40°	23169	22964	23296
45°	22511	22561	23007
50°	21747	22137	22642
55°	21021	21609	22314
60°	20184	21049	21914
65°	19163	20403	21523
70°	17865	19697	21079
75°	16013	18925	20927
80°	13427	18442	20761
85°	9734	18826	21882



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.5	2.6
10°-20°	651.4	7.6
20°-30°	991.0	11.5
30°-40°	1205.0	14.0
40°-50°	1274.8	14.8
50°-60°	1195.0	13.9
60°-70°	983.1	11.4
70°-80°	680.2	7.9
80°-90°	378.2	4.4
90°-100°	249.2	2.9
100°-110°	223.5	2.6
110°-120°	185.0	2.2
120°-130°	143.0	1.7
130°-140°	101.2	1.2
140°-150°	61.0	0.7
150°-160°	29.3	0.3
160°-170°	9.6	0.1
170°-180°	1.2	0.0
0°-30°	1868.9	21.8
0°-40°	3073.8	35.8
0°-60°	5543.6	64.6
0°-90°	7585.1	88.3
90°-120°	657.6	7.7
90°-150°	962.8	11.2
90°-180°	1003.0	11.7
0°-180°	8588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2385	2385	2385	2385	2385	
5°	2391	2387	2366	2385	2380	227
15°	2291	2299	2297	2328	2328	646
25°	2091	2121	2146	2193	2194	964
35°	1818	1866	1930	1991	2009	1138
45°	1494	1572	1668	1743	1763	1152
55°	1137	1238	1357	1443	1472	1018
65°	769	880	1016	1116	1147	763
75°	400	516	668	774	816	424
85°	88	219	371	474	515	102
90°	2	124	262	360	396	6
95°	2	118	254	348	382	1
105°	2	102	238	328	357	2
115°	3	88	202	291	324	2
125°	3	75	172	248	279	3
135°	3	59	144	204	229	2
145°	3	43	100	154	174	2
155°	4	29	62	98	115	2
165°	4	19	34	46	59	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°	2385.4	2385.4	2385.4	2385.4	2385.4
2.5°	2401.6	2394.2	2369.2	2385.4	2378.1
5°	2391.3	2386.9	2366.3	2385.4	2379.5
7.5°	2375.1	2373.6	2357.5	2379.5	2373.6
10°	2353.1	2356.0	2342.8	2366.3	2361.9
12.5°	2325.1	2329.5	2323.6	2350.1	2347.2
15°	2291.3	2298.6	2297.2	2328.1	2328.1
17.5°	2250.1	2260.4	2266.3	2301.6	2301.6
20°	2201.6	2217.8	2229.5	2267.8	2273.6
22.5°	2153.0	2172.2	2189.8	2229.5	2238.3
25°	2091.3	2120.7	2145.7	2192.8	2194.2
27.5°	2031.0	2063.3	2097.2	2142.8	2147.2
30°	1964.8	2006.0	2047.2	2091.3	2104.5
32.5°	1894.2	1939.8	1985.4	2044.2	2061.9
35°	1817.7	1866.3	1929.5	1991.3	2008.9
37.5°	1741.3	1795.7	1869.2	1932.5	1948.6
40°	1663.3	1723.6	1806.0	1870.7	1889.8
42.5°	1576.6	1650.1	1738.3	1807.4	1829.5
45°	1494.2	1572.1	1667.7	1742.7	1763.3
47.5°	1407.4	1489.8	1592.7	1672.1	1695.7
50°	1314.8	1408.9	1519.2	1598.6	1620.7
52.5°	1228.0	1323.6	1439.8	1522.1	1553.0
55°	1136.8	1238.3	1357.4	1442.7	1472.1
57.5°	1051.5	1148.6	1276.5	1361.8	1398.6
60°	954.5	1061.8	1189.8	1282.4	1311.8
62.5°	863.3	972.1	1104.5	1200.1	1233.9
65°	769.2	879.5	1016.2	1116.2	1147.1
67.5°	680.9	789.7	929.5	1028.0	1067.7
70°	583.9	698.6	841.2	942.7	976.5
72.5°	488.3	607.4	753.0	861.8	900.0
75°	400.0	516.2	667.7	773.6	816.2
77.5°	314.7	432.4	585.3	694.2	730.9
80°	229.4	353.0	508.8	616.2	651.5
82.5°	151.5	280.9	435.3	542.7	580.9
85°	88.2	219.1	370.6	473.6	514.7
87.5°	38.2	166.2	310.3	411.8	445.6
90°	1.5	123.5	261.8	360.3	395.6
92.5°	1.5	120.6	255.9	353.0	386.8
95°	1.5	117.7	254.4	348.5	382.4
97.5°	1.5	116.2	251.5	345.6	378.0
100°	1.5	111.8	247.1	339.7	372.1
102.5°	1.5	105.9	242.7	333.8	364.7
105°	1.5	101.5	238.2	328.0	357.4
107.5°	1.5	97.1	230.9	320.6	350.0
110°	1.5	92.7	219.1	313.3	342.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	91.2	210.3	303.0	333.8
115°	2.9	88.2	201.5	291.2	323.5
117.5°	2.9	86.8	194.1	279.4	313.3
120°	2.9	82.4	186.8	269.1	301.5
122.5°	2.9	77.9	179.4	258.8	291.2
125°	2.9	75.0	172.1	248.5	279.4
127.5°	2.9	70.6	166.2	238.2	266.2
130°	2.9	67.7	158.8	226.5	254.4
132.5°	2.9	63.2	151.5	214.7	241.2
135°	2.9	58.8	144.1	204.4	229.4
137.5°	2.9	52.9	135.3	192.7	216.2
140°	2.9	48.5	123.5	180.9	203.0
142.5°	2.9	45.6	111.8	167.7	188.2
145°	2.9	42.6	100.0	154.4	173.5
147.5°	2.9	39.7	89.7	141.2	158.8
150°	2.9	35.3	79.4	129.4	144.1
152.5°	4.4	32.4	70.6	114.7	129.4
155°	4.4	29.4	61.8	98.5	114.7
157.5°	4.4	26.5	52.9	82.4	100.0
160°	4.4	23.5	45.6	67.7	85.3
162.5°	4.4	22.1	39.7	55.9	72.1
165°	4.4	19.1	33.8	45.6	58.8
167.5°	4.4	14.7	27.9	35.3	48.5
170°	4.4	11.8	22.1	25.0	36.8
172.5°	4.4	8.8	16.2	17.6	19.1
175°	4.4	7.4	10.3	10.3	5.9
177.5°	4.4	5.9	5.9	5.9	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)