

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: P566953

Luminaire Tested: **4SNX-90HL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566953
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-L850-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

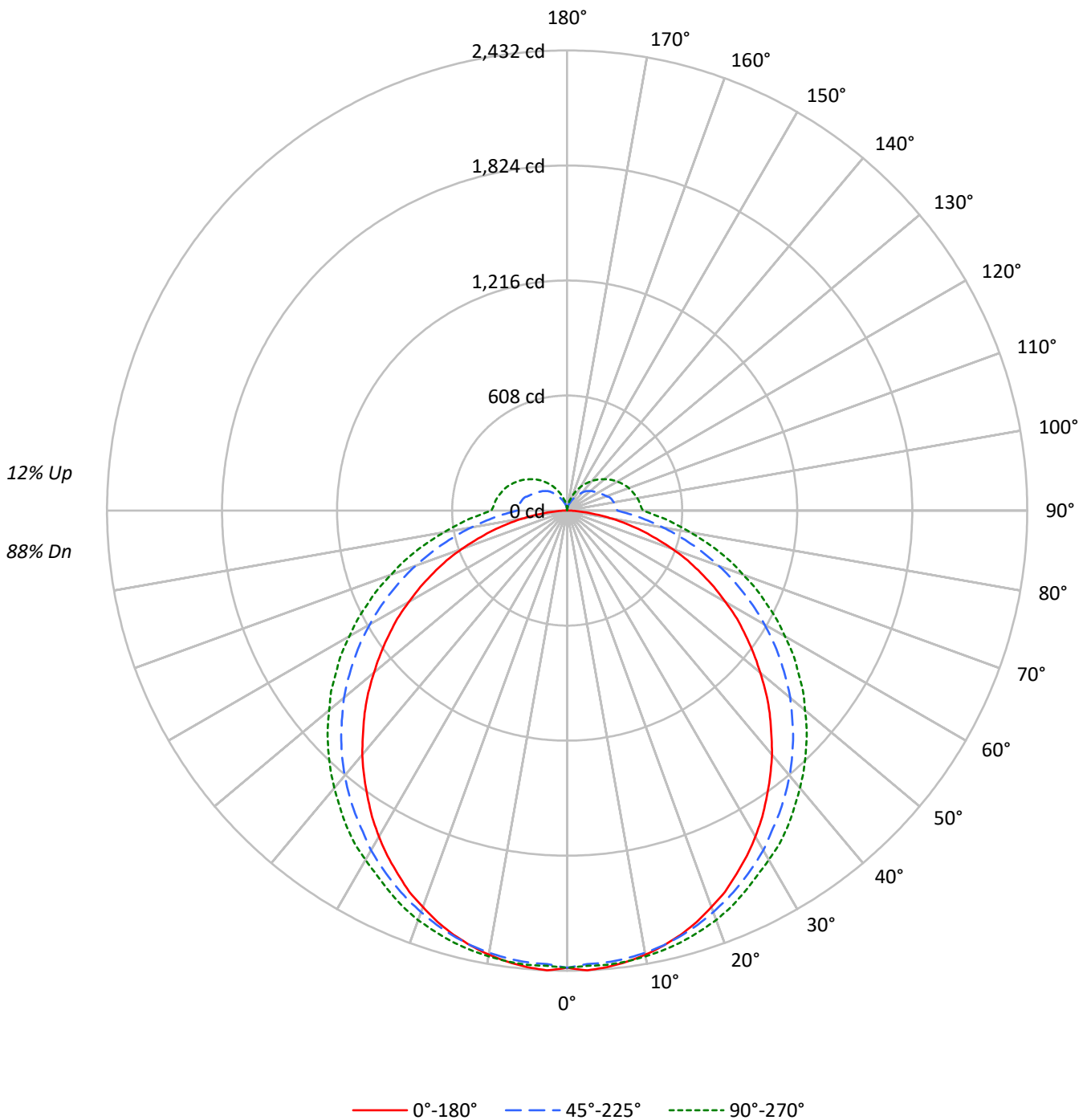
Lumens per Lamp: N/A
Luminaire Lumens: 8698.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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°	26006	26006	26006
5°	26145	25615	25666
10°	26001	25374	25399
15°	25788	25085	25152
20°	25445	24738	24869
25°	25034	24386	24490
30°	24586	24033	24167
35°	24016	23609	23942
40°	23466	23258	23594
45°	22799	22851	23302
50°	22025	22421	22932
55°	21291	21886	22601
60°	20442	21318	22195
65°	19407	20664	21799
70°	18091	19950	21349
75°	16217	19166	21197
80°	13602	18681	21025
85°	9866	19070	22162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.4	2.6
10°-20°	659.8	7.6
20°-30°	1003.7	11.5
30°-40°	1220.4	14.0
40°-50°	1291.1	14.8
50°-60°	1210.3	13.9
60°-70°	995.6	11.4
70°-80°	688.9	7.9
80°-90°	383.1	4.4
90°-100°	252.4	2.9
100°-110°	226.3	2.6
110°-120°	187.3	2.2
120°-130°	144.8	1.7
130°-140°	102.5	1.2
140°-150°	61.8	0.7
150°-160°	29.7	0.3
160°-170°	9.7	0.1
170°-180°	1.2	0.0
0°-30°	1892.8	21.8
0°-40°	3113.2	35.8
0°-60°	5614.6	64.6
0°-90°	7682.3	88.3
90°-120°	666.0	7.7
90°-150°	975.2	11.2
90°-180°	1016.0	11.7
0°-180°	8698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2416	2416	2416	2416	2416	
5°	2422	2418	2397	2416	2410	230
15°	2321	2328	2327	2358	2358	654
25°	2118	2148	2173	2221	2222	976
35°	1841	1890	1954	2017	2035	1152
45°	1513	1592	1689	1765	1786	1166
55°	1151	1254	1375	1461	1491	1031
65°	779	891	1029	1130	1162	772
75°	405	523	676	784	827	430
85°	89	222	375	480	521	103
90°	2	125	265	365	401	6
95°	2	119	258	353	387	1
105°	2	103	241	332	362	2
115°	3	89	204	295	328	2
125°	3	76	174	252	283	3
135°	3	60	146	207	232	2
145°	3	43	101	156	176	2
155°	4	30	63	100	116	2
165°	4	19	34	46	60	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°	2416.0	2416.0	2416.0	2416.0	2416.0
2.5°	2432.4	2424.9	2399.6	2416.0	2408.5
5°	2421.9	2417.5	2396.6	2416.0	2410.0
7.5°	2405.5	2404.1	2387.7	2410.0	2404.1
10°	2383.2	2386.2	2372.8	2396.6	2392.1
12.5°	2354.9	2359.4	2353.4	2380.2	2377.2
15°	2320.6	2328.1	2326.6	2357.9	2357.9
17.5°	2278.9	2289.4	2295.3	2331.1	2331.1
20°	2229.8	2246.2	2258.1	2296.8	2302.8
22.5°	2180.6	2200.0	2217.9	2258.1	2267.0
25°	2118.1	2147.9	2173.2	2220.8	2222.3
27.5°	2057.0	2089.8	2124.0	2170.2	2174.7
30°	1990.0	2031.7	2073.4	2118.1	2131.5
32.5°	1918.5	1964.6	2010.8	2070.4	2088.3
35°	1841.0	1890.2	1954.2	2016.8	2034.7
37.5°	1763.6	1818.7	1893.2	1957.2	1973.6
40°	1684.6	1745.7	1829.1	1894.6	1914.0
42.5°	1596.7	1671.2	1760.6	1830.6	1852.9
45°	1513.3	1592.3	1689.1	1765.1	1785.9
47.5°	1425.5	1508.9	1613.1	1693.6	1717.4
50°	1331.6	1426.9	1538.7	1619.1	1641.4
52.5°	1243.7	1340.5	1458.2	1541.6	1572.9
55°	1151.4	1254.2	1374.8	1461.2	1491.0
57.5°	1065.0	1163.3	1292.9	1379.3	1416.5
60°	966.7	1075.4	1205.0	1298.8	1328.6
62.5°	874.3	984.6	1118.6	1215.4	1249.7
65°	779.0	890.7	1029.2	1130.5	1161.8
67.5°	689.6	799.9	941.4	1041.2	1081.4
70°	591.3	707.5	852.0	954.8	989.0
72.5°	494.5	615.2	762.6	872.8	911.6
75°	405.1	522.8	676.2	783.5	826.7
77.5°	318.8	437.9	592.8	703.0	740.3
80°	232.4	357.5	515.4	624.1	659.8
82.5°	153.4	284.5	440.9	549.6	588.4
85°	89.4	221.9	375.4	479.6	521.3
87.5°	38.7	168.3	314.3	417.1	451.3
90°	1.5	125.1	265.1	364.9	400.7
92.5°	1.5	122.1	259.2	357.5	391.7
95°	1.5	119.2	257.7	353.0	387.3
97.5°	1.5	117.7	254.7	350.0	382.8
100°	1.5	113.2	250.2	344.1	376.8
102.5°	1.5	107.2	245.8	338.1	369.4
105°	1.5	102.8	241.3	332.2	361.9
107.5°	1.5	98.3	233.9	324.7	354.5
110°	1.5	93.8	221.9	317.3	347.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	92.3	213.0	306.8	338.1
115°	3.0	89.4	204.1	294.9	327.7
117.5°	3.0	87.9	196.6	283.0	317.3
120°	3.0	83.4	189.2	272.6	305.3
122.5°	3.0	78.9	181.7	262.2	294.9
125°	3.0	76.0	174.3	251.7	283.0
127.5°	3.0	71.5	168.3	241.3	269.6
130°	3.0	68.5	160.9	229.4	257.7
132.5°	3.0	64.0	153.4	217.5	244.3
135°	3.0	59.6	146.0	207.0	232.4
137.5°	3.0	53.6	137.0	195.1	219.0
140°	3.0	49.2	125.1	183.2	205.6
142.5°	3.0	46.2	113.2	169.8	190.7
145°	3.0	43.2	101.3	156.4	175.8
147.5°	3.0	40.2	90.9	143.0	160.9
150°	3.0	35.7	80.4	131.1	146.0
152.5°	4.5	32.8	71.5	116.2	131.1
155°	4.5	29.8	62.6	99.8	116.2
157.5°	4.5	26.8	53.6	83.4	101.3
160°	4.5	23.8	46.2	68.5	86.4
162.5°	4.5	22.3	40.2	56.6	73.0
165°	4.5	19.4	34.3	46.2	59.6
167.5°	4.5	14.9	28.3	35.7	49.2
170°	4.5	11.9	22.3	25.3	37.2
172.5°	4.5	8.9	16.4	17.9	19.4
175°	4.5	7.4	10.4	10.4	6.0
177.5°	4.5	6.0	6.0	6.0	3.0
180°	3.0	3.0	3.0	3.0	3.0

(END OF REPORT)