

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: P566985

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566985
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-SLW-UNV-L850-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

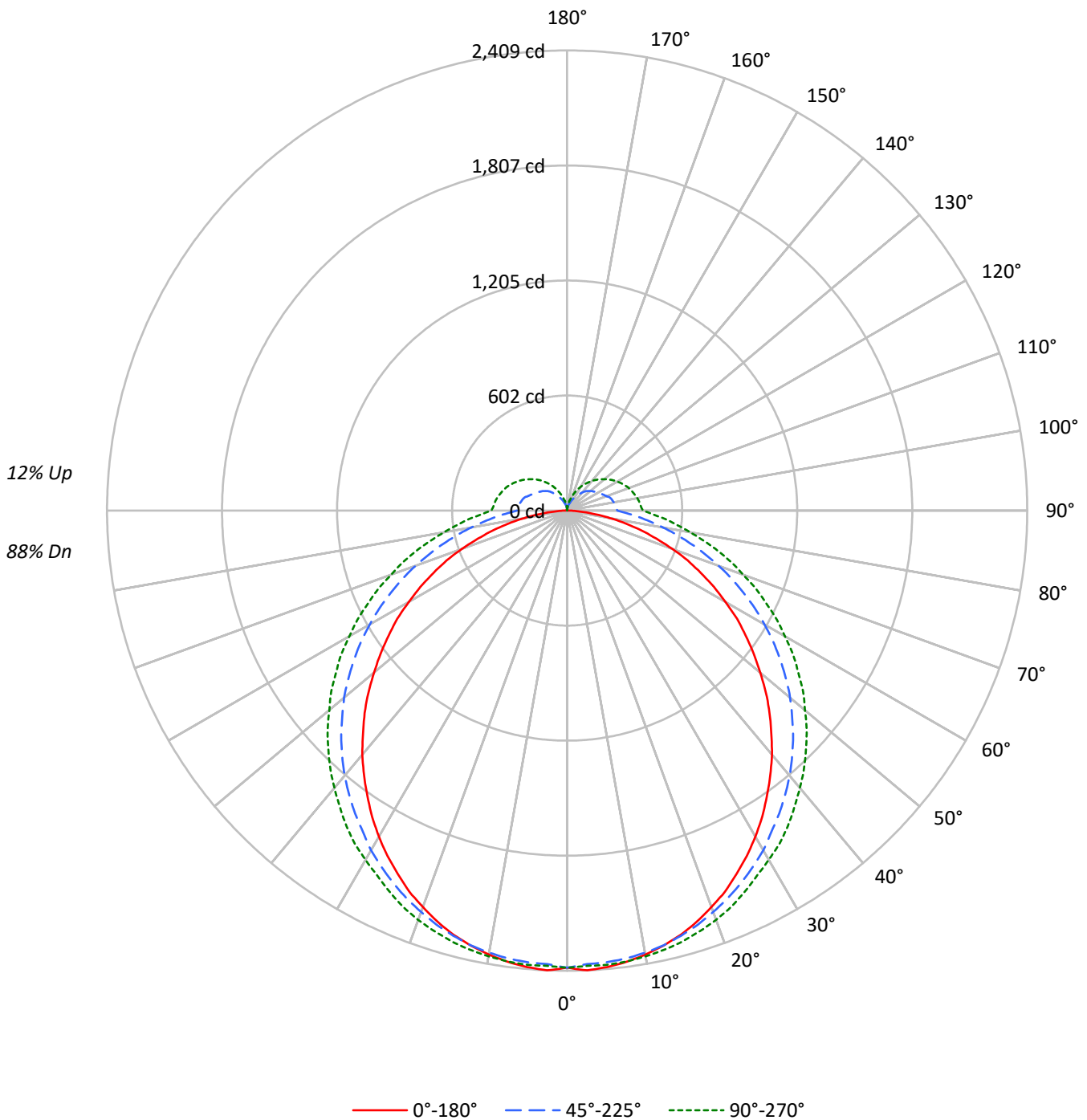
Lumens per Lamp: N/A
Luminaire Lumens: 8615.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 64.4
Input Voltage (V): NR
Input Current (Ain): 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°	25757	25757	25757
5°	25872	25100	25064
10°	25706	24604	24464
15°	25472	24071	23899
20°	25108	23486	23309
25°	24677	22900	22637
30°	24208	22311	22019
35°	23618	21653	21486
40°	23043	21051	20833
45°	22353	20383	20215
50°	21553	19673	19507
55°	20785	18842	18800
60°	19898	17942	17987
65°	18815	16915	17119
70°	17439	15759	16123
75°	15490	14427	15209
80°	12761	13103	14054
85°	8835	11924	13301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.2	2.6
10°-20°	653.5	7.6
20°-30°	994.1	11.5
30°-40°	1208.7	14.0
40°-50°	1278.8	14.8
50°-60°	1198.7	13.9
60°-70°	986.1	11.4
70°-80°	682.3	7.9
80°-90°	379.4	4.4
90°-100°	250.0	2.9
100°-110°	224.1	2.6
110°-120°	185.5	2.2
120°-130°	143.4	1.7
130°-140°	101.5	1.2
140°-150°	61.2	0.7
150°-160°	29.4	0.3
160°-170°	9.6	0.1
170°-180°	1.2	0.0
0°-30°	1874.8	21.8
0°-40°	3083.5	35.8
0°-60°	5561.0	64.6
0°-90°	7608.9	88.3
90°-120°	659.6	7.7
90°-150°	965.8	11.2
90°-180°	1006.0	11.7
0°-180°	8615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2393	2393	2393	2393	2393	
5°	2399	2394	2374	2393	2387	228
15°	2298	2306	2304	2335	2335	648
25°	2098	2127	2152	2200	2201	967
35°	1824	1872	1936	1998	2015	1141
45°	1499	1577	1673	1748	1769	1155
55°	1140	1242	1362	1447	1477	1021
65°	772	882	1019	1120	1151	765
75°	401	518	670	776	819	426
85°	88	220	372	475	516	102
90°	2	124	263	361	397	6
95°	2	118	255	350	384	1
105°	2	102	239	329	358	2
115°	3	88	202	292	325	2
125°	3	75	173	249	280	3
135°	3	59	145	205	230	2
145°	3	43	100	155	174	2
155°	4	30	62	99	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°	2392.9	2392.9	2392.9	2392.9	2392.9
2.5°	2409.1	2401.8	2376.7	2392.9	2385.5
5°	2398.8	2394.4	2373.7	2392.9	2387.0
7.5°	2382.6	2381.1	2364.9	2387.0	2381.1
10°	2360.5	2363.4	2350.1	2373.7	2369.3
12.5°	2332.4	2336.9	2331.0	2357.5	2354.6
15°	2298.5	2305.9	2304.4	2335.4	2335.4
17.5°	2257.2	2267.5	2273.4	2308.8	2308.8
20°	2208.5	2224.7	2236.5	2274.9	2280.8
22.5°	2159.8	2179.0	2196.7	2236.5	2245.4
25°	2097.9	2127.4	2152.4	2199.7	2201.1
27.5°	2037.4	2069.8	2103.8	2149.5	2153.9
30°	1971.0	2012.3	2053.6	2097.9	2111.1
32.5°	1900.2	1945.9	1991.6	2050.6	2068.4
35°	1823.5	1872.1	1935.6	1997.5	2015.2
37.5°	1746.7	1801.3	1875.1	1938.5	1954.8
40°	1668.5	1729.0	1811.7	1876.6	1895.7
42.5°	1581.5	1655.3	1743.8	1813.1	1835.3
45°	1498.9	1577.1	1673.0	1748.2	1768.9
47.5°	1411.8	1494.5	1597.7	1677.4	1701.0
50°	1318.9	1413.3	1524.0	1603.6	1625.8
52.5°	1231.9	1327.8	1444.3	1526.9	1557.9
55°	1140.4	1242.2	1361.7	1447.3	1476.8
57.5°	1054.8	1152.2	1280.5	1366.1	1403.0
60°	957.5	1065.2	1193.5	1286.4	1316.0
62.5°	866.0	975.2	1107.9	1203.8	1237.8
65°	771.6	882.2	1019.4	1119.7	1150.7
67.5°	683.1	792.2	932.4	1031.2	1071.1
70°	585.7	700.8	843.9	945.7	979.6
72.5°	489.8	609.3	755.3	864.5	902.9
75°	401.3	517.8	669.8	776.0	818.8
77.5°	315.7	433.7	587.2	696.3	733.2
80°	230.1	354.1	510.4	618.1	653.6
82.5°	152.0	281.8	436.7	544.4	582.7
85°	88.5	219.8	371.8	475.0	516.4
87.5°	38.4	166.7	311.3	413.1	447.0
90°	1.5	123.9	262.6	361.4	396.9
92.5°	1.5	121.0	256.7	354.1	388.0
95°	1.5	118.0	255.2	349.6	383.6
97.5°	1.5	116.5	252.3	346.7	379.1
100°	1.5	112.1	247.8	340.8	373.2
102.5°	1.5	106.2	243.4	334.9	365.9
105°	1.5	101.8	239.0	329.0	358.5
107.5°	1.5	97.4	231.6	321.6	351.1
110°	1.5	92.9	219.8	314.2	343.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	91.5	211.0	303.9	334.9
115°	3.0	88.5	202.1	292.1	324.6
117.5°	3.0	87.0	194.7	280.3	314.2
120°	3.0	82.6	187.4	270.0	302.4
122.5°	3.0	78.2	180.0	259.7	292.1
125°	3.0	75.2	172.6	249.3	280.3
127.5°	3.0	70.8	166.7	239.0	267.0
130°	3.0	67.9	159.3	227.2	255.2
132.5°	3.0	63.4	152.0	215.4	241.9
135°	3.0	59.0	144.6	205.1	230.1
137.5°	3.0	53.1	135.7	193.3	216.9
140°	3.0	48.7	123.9	181.5	203.6
142.5°	3.0	45.7	112.1	168.2	188.8
145°	3.0	42.8	100.3	154.9	174.1
147.5°	3.0	39.8	90.0	141.6	159.3
150°	3.0	35.4	79.7	129.8	144.6
152.5°	4.4	32.5	70.8	115.1	129.8
155°	4.4	29.5	62.0	98.8	115.1
157.5°	4.4	26.6	53.1	82.6	100.3
160°	4.4	23.6	45.7	67.9	85.6
162.5°	4.4	22.1	39.8	56.1	72.3
165°	4.4	19.2	33.9	45.7	59.0
167.5°	4.4	14.8	28.0	35.4	48.7
170°	4.4	11.8	22.1	25.1	36.9
172.5°	4.4	8.9	16.2	17.7	19.2
175°	4.4	7.4	10.3	10.3	5.9
177.5°	4.4	5.9	5.9	5.9	3.0
180°	3.0	3.0	3.0	3.0	3.0

(END OF REPORT)