

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: P567017

Luminaire Tested: **4SNX-93HL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567017
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-93HL-LN-UNV-L850-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

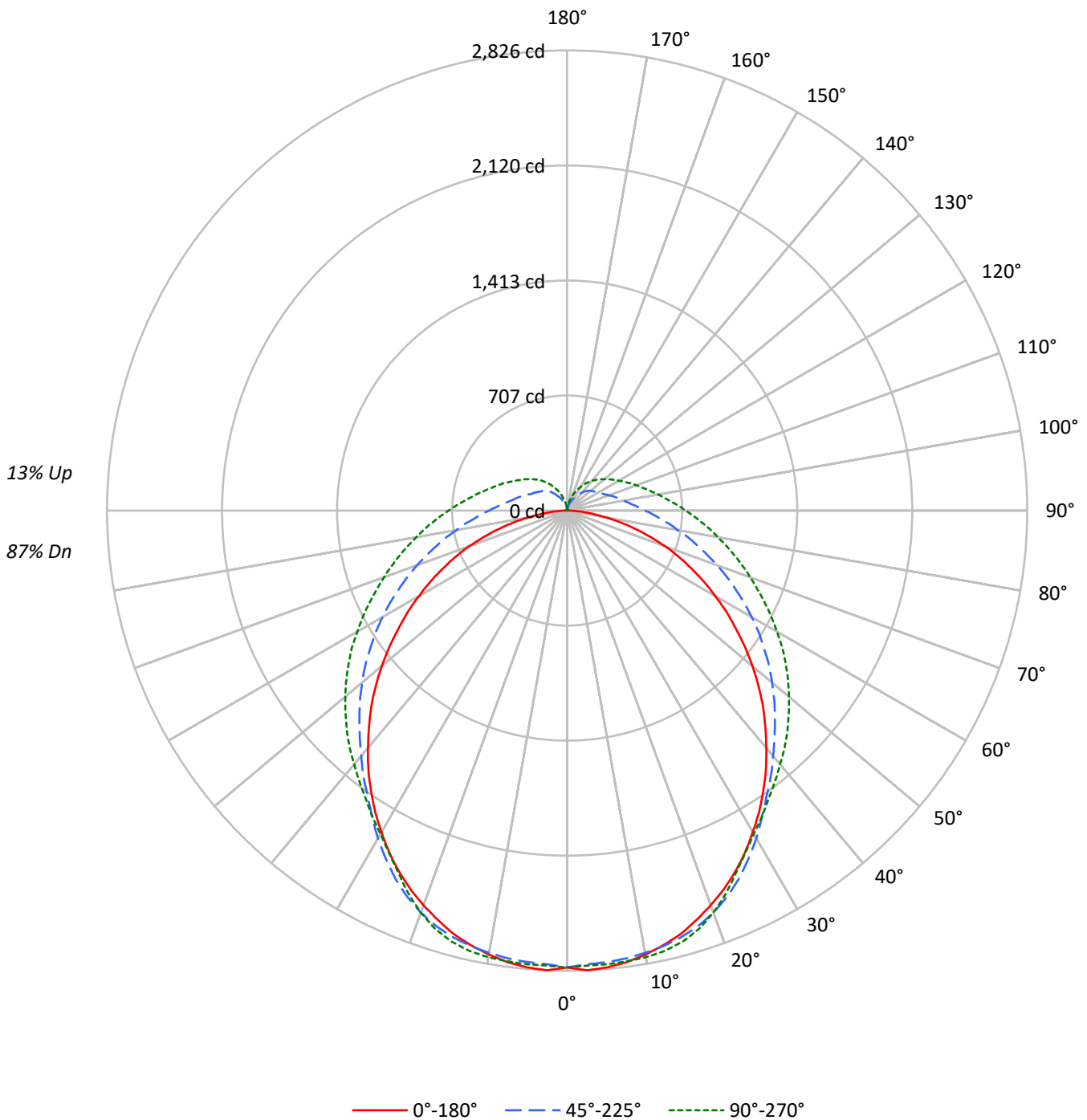
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10128.0 lumens
Efficiency: N/A
Efficacy: 150.3 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): 67.4
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	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°	30199	30199	30199
5°	30315	28811	28557
10°	30032	27695	27238
15°	29671	26638	25910
20°	29100	25453	24217
25°	28486	24021	22231
30°	27675	22415	20572
35°	26811	20780	19335
40°	25830	19467	18334
45°	24866	18303	17470
50°	23723	17231	16600
55°	22383	16156	15748
60°	21099	15082	14857
65°	19670	14000	14039
70°	18036	12985	13301
75°	15512	11996	12693
80°	12224	11141	12177
85°	8190	10532	11881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.5	2.6
10°-20°	766.3	7.6
20°-30°	1141.1	11.3
30°-40°	1346.4	13.3
40°-50°	1404.2	13.9
50°-60°	1319.6	13.0
60°-70°	1114.4	11.0
70°-80°	842.0	8.3
80°-90°	580.4	5.7
90°-100°	406.2	4.0
100°-110°	303.1	3.0
110°-120°	228.5	2.3
120°-130°	170.4	1.7
130°-140°	119.6	1.2
140°-150°	72.3	0.7
150°-160°	34.6	0.3
160°-170°	11.1	0.1
170°-180°	1.3	0.0
0°-30°	2173.9	21.5
0°-40°	3520.4	34.8
0°-60°	6244.1	61.7
0°-90°	8780.9	86.7
90°-120°	937.8	9.3
90°-150°	1300.1	12.8
90°-180°	1347.0	13.3
0°-180°	10128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2806	2806	2806	2806	2806	
5°	2816	2811	2783	2804	2797	267
15°	2692	2704	2711	2746	2740	758
25°	2445	2495	2495	2472	2454	1125
35°	2100	2177	2136	2153	2158	1313
45°	1702	1786	1805	1878	1913	1310
55°	1264	1372	1477	1595	1638	1134
65°	841	975	1140	1290	1339	835
75°	431	598	828	1001	1065	459
85°	98	307	574	762	829	110
90°	2	218	479	663	728	7
95°	2	170	405	580	640	1
105°	3	122	312	453	505	3
115°	3	105	242	361	407	4
125°	5	89	204	295	333	5
135°	5	69	170	240	270	4
145°	7	50	118	184	206	4
155°	7	33	72	117	136	3
165°	9	21	38	52	69	2
175°	9	9	10	10	5	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2805.6	2805.6	2805.6	2805.6	2805.6
2.5°	2826.2	2819.4	2788.5	2805.6	2797.1
5°	2815.9	2810.8	2783.3	2803.9	2797.1
7.5°	2797.1	2795.3	2774.7	2798.8	2791.9
10°	2767.9	2773.0	2757.6	2790.2	2785.0
12.5°	2733.5	2743.8	2738.7	2774.7	2769.6
15°	2692.3	2704.3	2711.2	2745.5	2740.4
17.5°	2637.4	2659.7	2675.1	2702.6	2694.0
20°	2579.0	2609.9	2627.1	2640.8	2627.1
22.5°	2515.5	2556.7	2567.0	2560.1	2546.4
25°	2445.1	2494.9	2494.9	2472.5	2453.7
27.5°	2366.1	2427.9	2410.7	2385.0	2369.5
30°	2280.2	2354.1	2324.9	2295.7	2292.2
32.5°	2194.4	2271.6	2228.7	2221.9	2227.0
35°	2099.9	2177.2	2136.0	2153.2	2158.3
37.5°	2005.5	2082.8	2055.3	2081.1	2096.5
40°	1902.5	1984.9	1967.7	2014.1	2034.7
42.5°	1801.2	1887.0	1885.3	1945.4	1976.3
45°	1701.6	1785.7	1804.6	1878.4	1912.8
47.5°	1593.4	1679.3	1725.6	1811.5	1845.8
50°	1487.0	1579.7	1643.2	1739.4	1778.9
52.5°	1377.1	1474.9	1562.5	1669.0	1710.2
55°	1263.7	1371.9	1476.7	1595.1	1638.1
57.5°	1162.4	1272.3	1396.0	1517.9	1567.7
60°	1050.8	1172.7	1308.4	1437.2	1487.0
62.5°	949.5	1074.9	1226.0	1361.6	1414.8
65°	841.3	975.3	1140.1	1289.5	1339.3
67.5°	741.8	879.1	1059.4	1210.5	1265.5
70°	638.7	784.7	980.4	1140.1	1196.8
72.5°	532.3	686.8	901.4	1071.4	1129.8
75°	431.0	597.5	827.6	1001.0	1064.6
77.5°	336.5	511.7	760.6	939.2	1001.0
80°	243.8	434.4	690.3	875.7	939.2
82.5°	161.4	367.4	633.6	819.0	886.0
85°	97.9	307.4	573.5	762.4	829.3
87.5°	44.6	257.6	525.4	712.6	777.8
90°	1.7	218.1	479.1	662.8	728.0
92.5°	1.7	190.6	441.3	619.9	683.4
95°	1.7	170.0	405.2	580.4	640.5
97.5°	1.7	156.3	377.7	542.6	601.0
100°	1.7	142.5	350.3	508.2	568.3
102.5°	3.4	130.5	329.7	477.3	534.0
105°	3.4	121.9	312.5	453.3	504.8
107.5°	3.4	116.8	293.6	429.3	477.3
110°	3.4	111.6	273.0	405.2	453.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.4	108.2	257.6	384.6	431.0
115°	3.4	104.7	242.1	360.6	406.9
117.5°	3.4	103.0	233.5	341.7	386.3
120°	5.2	97.9	223.2	324.5	367.4
122.5°	5.2	92.7	212.9	310.8	348.6
125°	5.2	89.3	204.3	295.3	333.1
127.5°	5.2	84.1	195.7	281.6	315.9
130°	5.2	79.0	188.9	267.9	300.5
132.5°	5.2	73.8	180.3	254.1	285.0
135°	5.2	68.7	170.0	240.4	269.6
137.5°	5.2	63.5	159.7	226.6	254.1
140°	5.2	58.4	145.9	212.9	238.7
142.5°	5.2	53.2	132.2	199.2	221.5
145°	6.9	49.8	118.5	183.7	206.0
147.5°	6.9	44.6	104.7	168.3	187.2
150°	6.9	41.2	94.4	152.8	170.0
152.5°	6.9	36.1	84.1	135.6	152.8
155°	6.9	32.6	72.1	116.8	135.6
157.5°	6.9	29.2	61.8	97.9	118.5
160°	6.9	27.5	53.2	80.7	101.3
162.5°	8.6	24.0	44.6	65.2	84.1
165°	8.6	20.6	37.8	51.5	68.7
167.5°	8.6	17.2	30.9	39.5	53.2
170°	8.6	13.7	24.0	27.5	41.2
172.5°	8.6	10.3	17.2	18.9	20.6
175°	8.6	8.6	10.3	10.3	5.2
177.5°	8.6	8.6	6.9	5.2	1.7
180°	5.2	5.2	5.2	5.2	5.2

(END OF REPORT)