

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: P566969

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566969
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-90HL-LN-UNV-L850-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

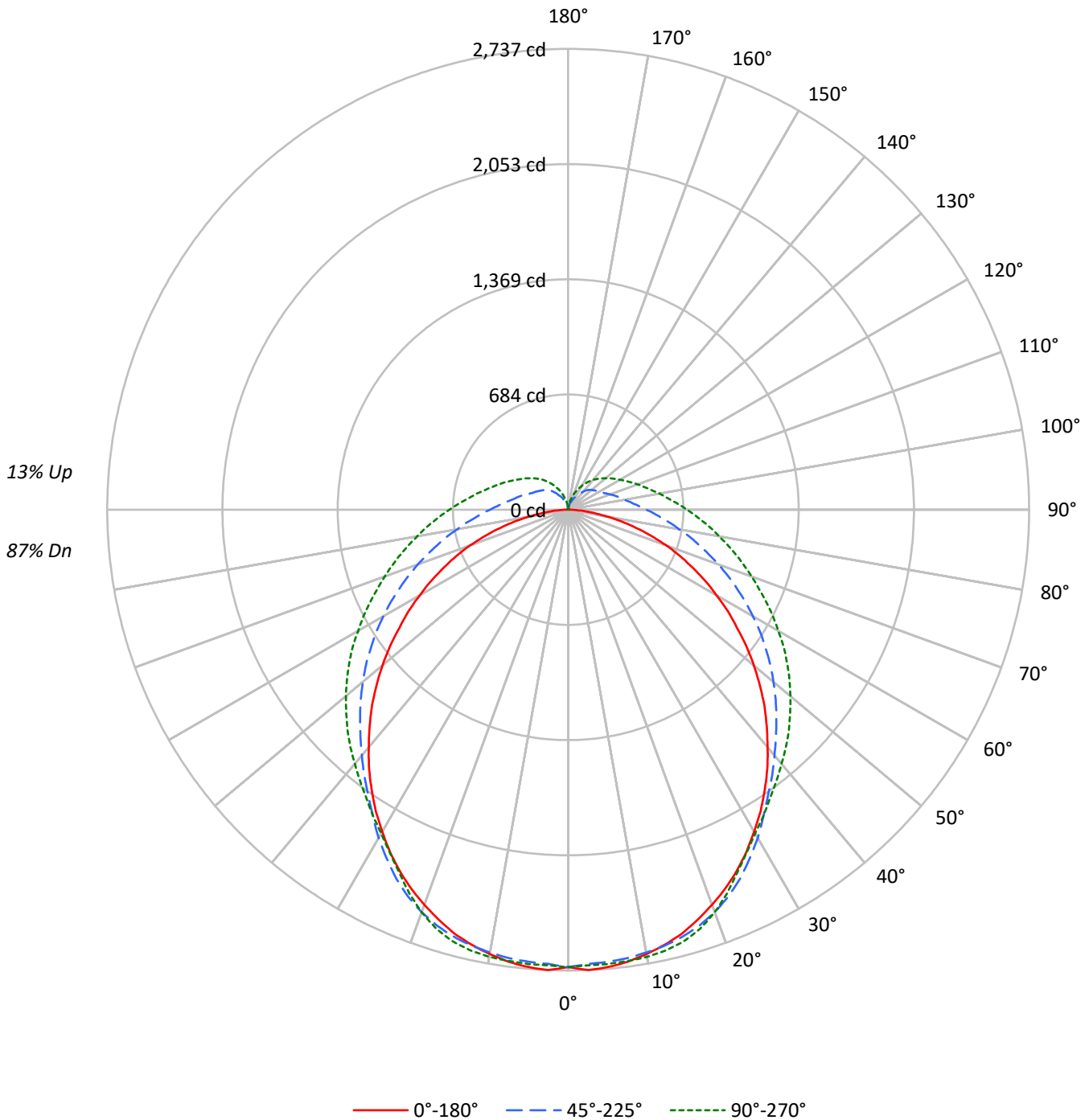
Lumens per Lamp: N/A
Luminaire Lumens: 9807.1 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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

TEST NUMBER: P566969

CATALOG NUMBER: 4SNX-90HL-LN-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566969

CATALOG NUMBER: 4SNX-90HL-LN-UNV-L850-CD

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°	29242	29242	29242
5°	29355	27898	27652
10°	29080	26817	26375
15°	28731	25794	25088
20°	28179	24646	23449
25°	27583	23259	21526
30°	26799	21704	19920
35°	25962	20121	18722
40°	25011	18851	17753
45°	24079	17723	16917
50°	22970	16685	16074
55°	21675	15644	15248
60°	20430	14604	14385
65°	19048	13557	13594
70°	17466	12575	12879
75°	15019	11616	12290
80°	11838	10788	11792
85°	7931	10198	11505



TEST NUMBER: P566969

CATALOG NUMBER: 4SNX-90HL-LN-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.1	2.6
10°-20°	742.0	7.6
20°-30°	1104.9	11.3
30°-40°	1303.8	13.3
40°-50°	1359.7	13.9
50°-60°	1277.8	13.0
60°-70°	1079.1	11.0
70°-80°	815.3	8.3
80°-90°	562.0	5.7
90°-100°	393.3	4.0
100°-110°	293.5	3.0
110°-120°	221.2	2.3
120°-130°	165.0	1.7
130°-140°	115.8	1.2
140°-150°	70.0	0.7
150°-160°	33.5	0.3
160°-170°	10.7	0.1
170°-180°	1.3	0.0
0°-30°	2105.0	21.5
0°-40°	3408.8	34.8
0°-60°	6046.2	61.7
0°-90°	8502.6	86.7
90°-120°	908.1	9.3
90°-150°	1258.9	12.8
90°-180°	1304.0	13.3
0°-180°	9807.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2717	2717	2717	2717	2717	
5°	2727	2722	2695	2715	2708	259
15°	2607	2619	2625	2658	2654	734
25°	2368	2416	2416	2394	2376	1089
35°	2033	2108	2068	2085	2090	1272
45°	1648	1729	1747	1819	1852	1269
55°	1224	1328	1430	1545	1586	1098
65°	815	944	1104	1249	1297	809
75°	417	579	801	969	1031	444
85°	95	298	555	738	803	106
90°	2	211	464	642	705	7
95°	2	165	392	562	620	1
105°	3	118	303	439	489	3
115°	3	101	234	349	394	3
125°	5	86	198	286	322	4
135°	5	66	165	233	261	4
145°	7	48	115	178	200	4
155°	7	32	70	113	131	3
165°	8	20	37	50	66	2
175°	8	8	10	10	5	1
180°	5	5	5	5	5	



TEST NUMBER: P566969

CATALOG NUMBER: 4SNX-90HL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2716.7	2716.7	2716.7	2716.7	2716.7
2.5°	2736.7	2730.0	2700.1	2716.7	2708.4
5°	2726.7	2721.7	2695.1	2715.1	2708.4
7.5°	2708.4	2706.7	2686.8	2710.1	2703.4
10°	2680.1	2685.1	2670.2	2701.8	2696.8
12.5°	2646.9	2656.9	2651.9	2686.8	2681.8
15°	2607.0	2618.6	2625.3	2658.5	2653.5
17.5°	2553.8	2575.4	2590.4	2617.0	2608.7
20°	2497.3	2527.2	2543.8	2557.1	2543.8
22.5°	2435.7	2475.6	2485.6	2479.0	2465.7
25°	2367.6	2415.8	2415.8	2394.2	2375.9
27.5°	2291.1	2350.9	2334.3	2309.4	2294.4
30°	2208.0	2279.5	2251.2	2222.9	2219.6
32.5°	2124.8	2199.6	2158.1	2151.4	2156.4
35°	2033.4	2108.2	2068.3	2084.9	2089.9
37.5°	1941.9	2016.8	1990.2	2015.1	2030.1
40°	1842.2	1922.0	1905.4	1950.3	1970.2
42.5°	1744.1	1827.2	1825.6	1883.7	1913.7
45°	1647.7	1729.1	1747.4	1818.9	1852.2
47.5°	1542.9	1626.0	1670.9	1754.1	1787.3
50°	1439.8	1529.6	1591.1	1684.2	1722.5
52.5°	1333.4	1428.2	1513.0	1616.1	1656.0
55°	1223.7	1328.4	1429.9	1544.6	1586.1
57.5°	1125.6	1232.0	1351.7	1469.8	1518.0
60°	1017.5	1135.6	1266.9	1391.6	1439.8
62.5°	919.4	1040.8	1187.1	1318.5	1370.0
65°	814.7	944.4	1104.0	1248.6	1296.8
67.5°	718.3	851.3	1025.8	1172.1	1225.4
70°	618.5	759.8	949.4	1104.0	1158.8
72.5°	515.4	665.0	872.9	1037.5	1094.0
75°	417.3	578.6	801.4	969.3	1030.8
77.5°	325.9	495.5	736.5	909.5	969.3
80°	236.1	420.6	668.4	847.9	909.5
82.5°	156.3	355.8	613.5	793.1	857.9
85°	94.8	297.6	555.3	738.2	803.0
87.5°	43.2	249.4	508.8	690.0	753.2
90°	1.7	211.2	463.9	641.8	705.0
92.5°	1.7	184.6	427.3	600.2	661.7
95°	1.7	164.6	392.4	562.0	620.2
97.5°	1.7	151.3	365.8	525.4	581.9
100°	1.7	138.0	339.2	492.1	550.3
102.5°	3.3	126.4	319.2	462.2	517.1
105°	3.3	118.0	302.6	438.9	488.8
107.5°	3.3	113.1	284.3	415.7	462.2
110°	3.3	108.1	264.4	392.4	438.9



TEST NUMBER: P566969

CATALOG NUMBER: 4SNX-90HL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.3	104.7	249.4	372.4	417.3
115°	3.3	101.4	234.4	349.2	394.0
117.5°	3.3	99.8	226.1	330.9	374.1
120°	5.0	94.8	216.1	314.2	355.8
122.5°	5.0	89.8	206.2	300.9	337.5
125°	5.0	86.5	197.9	286.0	322.5
127.5°	5.0	81.5	189.5	272.7	305.9
130°	5.0	76.5	182.9	259.4	291.0
132.5°	5.0	71.5	174.6	246.1	276.0
135°	5.0	66.5	164.6	232.8	261.0
137.5°	5.0	61.5	154.6	219.5	246.1
140°	5.0	56.5	141.3	206.2	231.1
142.5°	5.0	51.5	128.0	192.9	214.5
145°	6.7	48.2	114.7	177.9	199.5
147.5°	6.7	43.2	101.4	162.9	181.2
150°	6.7	39.9	91.4	148.0	164.6
152.5°	6.7	34.9	81.5	131.3	148.0
155°	6.7	31.6	69.8	113.1	131.3
157.5°	6.7	28.3	59.9	94.8	114.7
160°	6.7	26.6	51.5	78.1	98.1
162.5°	8.3	23.3	43.2	63.2	81.5
165°	8.3	20.0	36.6	49.9	66.5
167.5°	8.3	16.6	29.9	38.2	51.5
170°	8.3	13.3	23.3	26.6	39.9
172.5°	8.3	10.0	16.6	18.3	20.0
175°	8.3	8.3	10.0	10.0	5.0
177.5°	8.3	8.3	6.7	5.0	1.7
180°	5.0	5.0	5.0	5.0	5.0

(END OF REPORT)