

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: P567025

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567025
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-93HL-LW-UNV-L850-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

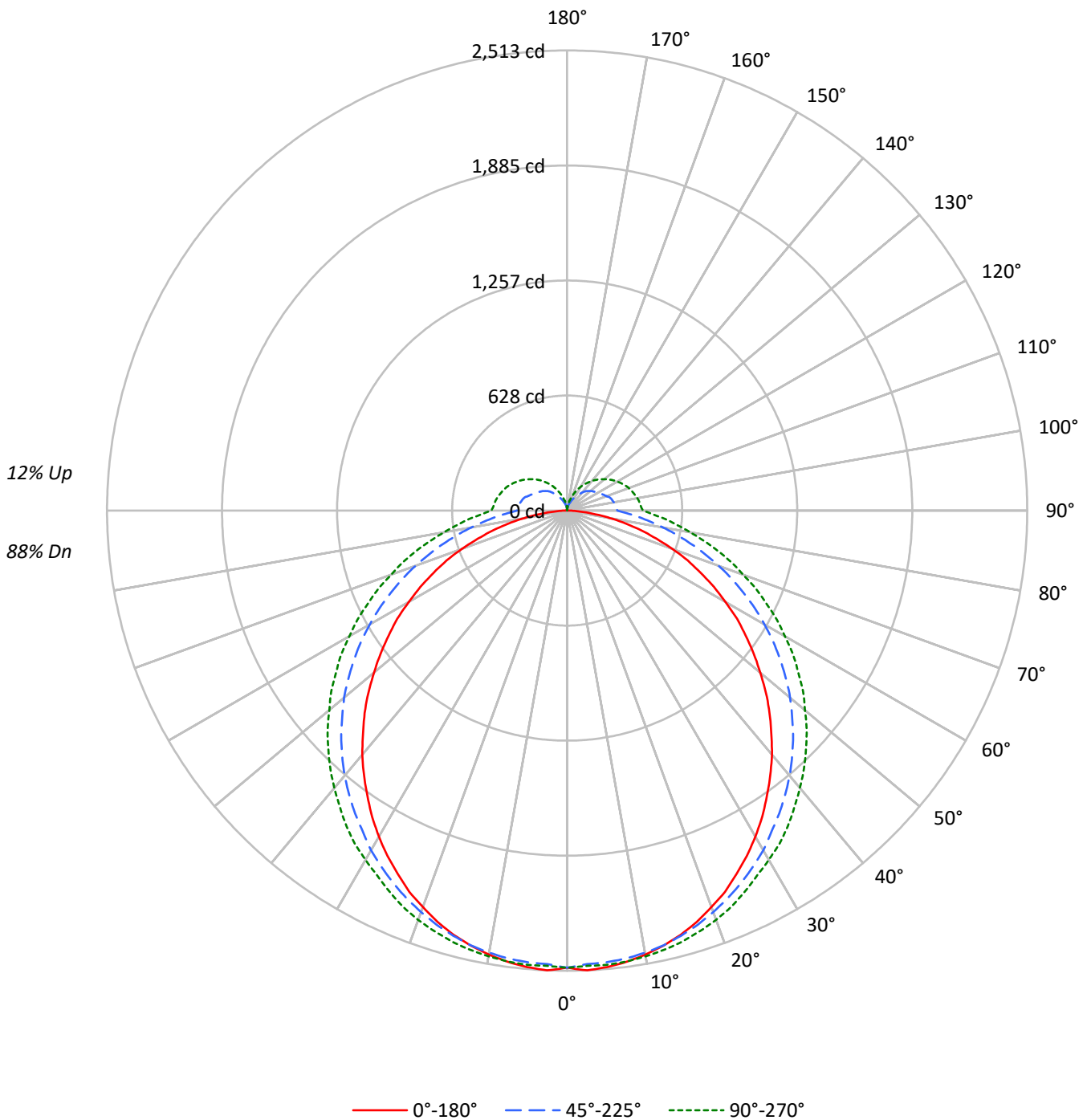
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8987.0 lumens
Efficiency: N/A
Efficacy: 133.3 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: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 67.4
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°	26869	26869	26869
5°	26940	25632	25423
10°	26718	24621	24173
15°	26424	23618	23033
20°	25996	22604	21932
25°	25496	21619	20804
30°	24955	20654	19765
35°	24287	19644	18833
40°	23631	18697	17819
45°	22850	17700	16853
50°	21950	16671	15826
55°	21071	15541	14809
60°	20055	14352	13716
65°	18819	13058	12583
70°	17254	11659	11357
75°	15066	10127	10183
80°	12038	8594	8840
85°	7722	7122	7717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	2.6
10°-20°	681.7	7.6
20°-30°	1037.0	11.5
30°-40°	1260.9	14.0
40°-50°	1334.0	14.8
50°-60°	1250.5	13.9
60°-70°	1028.7	11.4
70°-80°	711.8	7.9
80°-90°	395.8	4.4
90°-100°	260.8	2.9
100°-110°	233.8	2.6
110°-120°	193.5	2.2
120°-130°	149.6	1.7
130°-140°	105.9	1.2
140°-150°	63.9	0.7
150°-160°	30.7	0.3
160°-170°	10.0	0.1
170°-180°	1.2	0.0
0°-30°	1955.7	21.8
0°-40°	3216.6	35.8
0°-60°	5801.2	64.6
0°-90°	7937.5	88.3
90°-120°	688.1	7.7
90°-150°	1007.6	11.2
90°-180°	1050.0	11.7
0°-180°	8987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2496	2496	2496	2496	2496	
5°	2502	2498	2476	2496	2490	238
15°	2398	2405	2404	2436	2436	676
25°	2188	2219	2245	2295	2296	1009
35°	1902	1953	2019	2084	2102	1190
45°	1564	1645	1745	1824	1845	1205
55°	1190	1296	1420	1510	1540	1065
65°	805	920	1063	1168	1200	798
75°	419	540	699	810	854	444
85°	92	229	388	496	539	106
90°	2	129	274	377	414	6
95°	2	123	266	365	400	1
105°	2	106	249	343	374	2
115°	3	92	211	305	339	2
125°	3	78	180	260	292	3
135°	3	62	151	214	240	2
145°	3	45	105	162	182	2
155°	5	31	65	103	120	2
165°	5	20	35	48	62	1
175°	5	8	11	11	6	0
180°	3	3	3	3	3	



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CATALOG NUMBER: 4SNX-93HL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2496.2	2496.2	2496.2	2496.2	2496.2
2.5°	2513.2	2505.5	2479.3	2496.2	2488.5
5°	2502.4	2497.8	2476.2	2496.2	2490.1
7.5°	2485.5	2483.9	2467.0	2490.1	2483.9
10°	2462.4	2465.5	2451.6	2476.2	2471.6
12.5°	2433.1	2437.8	2431.6	2459.3	2456.2
15°	2397.7	2405.4	2403.9	2436.2	2436.2
17.5°	2354.7	2365.4	2371.6	2408.5	2408.5
20°	2303.9	2320.8	2333.1	2373.1	2379.3
22.5°	2253.1	2273.1	2291.6	2333.1	2342.3
25°	2188.4	2219.2	2245.4	2294.6	2296.2
27.5°	2125.3	2159.2	2194.6	2242.3	2246.9
30°	2056.1	2099.2	2142.3	2188.4	2202.3
32.5°	1982.2	2029.9	2077.6	2139.2	2157.7
35°	1902.2	1953.0	2019.2	2083.8	2102.3
37.5°	1822.2	1879.1	1956.1	2022.2	2039.2
40°	1740.6	1803.7	1889.9	1957.6	1977.6
42.5°	1649.8	1726.7	1819.1	1891.4	1914.5
45°	1563.6	1645.2	1745.2	1823.7	1845.2
47.5°	1472.8	1559.0	1666.7	1749.8	1774.5
50°	1375.9	1474.4	1589.8	1672.9	1696.0
52.5°	1285.1	1385.1	1506.7	1592.9	1625.2
55°	1189.6	1295.8	1420.5	1509.7	1540.5
57.5°	1100.4	1202.0	1335.8	1425.1	1463.6
60°	998.8	1111.2	1245.0	1342.0	1372.8
62.5°	903.4	1017.3	1155.8	1255.8	1291.2
65°	804.9	920.3	1063.4	1168.1	1200.4
67.5°	712.6	826.4	972.6	1075.8	1117.3
70°	611.0	731.0	880.3	986.5	1021.9
72.5°	510.9	635.6	788.0	901.8	941.9
75°	418.6	540.2	698.7	809.5	854.1
77.5°	329.3	452.5	612.5	726.4	764.9
80°	240.1	369.4	532.5	644.8	681.8
82.5°	158.5	293.9	455.5	567.9	607.9
85°	92.3	229.3	387.8	495.6	538.6
87.5°	40.0	173.9	324.7	430.9	466.3
90°	1.5	129.3	273.9	377.1	414.0
92.5°	1.5	126.2	267.8	369.4	404.8
95°	1.5	123.1	266.2	364.7	400.1
97.5°	1.5	121.6	263.2	361.7	395.5
100°	1.5	117.0	258.6	355.5	389.4
102.5°	1.5	110.8	253.9	349.4	381.7
105°	1.5	106.2	249.3	343.2	374.0
107.5°	1.5	101.6	241.6	335.5	366.3
110°	1.5	97.0	229.3	327.8	358.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	95.4	220.1	317.0	349.4
115°	3.1	92.3	210.8	304.7	338.6
117.5°	3.1	90.8	203.1	292.4	327.8
120°	3.1	86.2	195.5	281.6	315.5
122.5°	3.1	81.6	187.8	270.9	304.7
125°	3.1	78.5	180.1	260.1	292.4
127.5°	3.1	73.9	173.9	249.3	278.6
130°	3.1	70.8	166.2	237.0	266.2
132.5°	3.1	66.2	158.5	224.7	252.4
135°	3.1	61.6	150.8	213.9	240.1
137.5°	3.1	55.4	141.6	201.6	226.2
140°	3.1	50.8	129.3	189.3	212.4
142.5°	3.1	47.7	117.0	175.4	197.0
145°	3.1	44.6	104.7	161.6	181.6
147.5°	3.1	41.6	93.9	147.7	166.2
150°	3.1	36.9	83.1	135.4	150.8
152.5°	4.6	33.9	73.9	120.0	135.4
155°	4.6	30.8	64.6	103.1	120.0
157.5°	4.6	27.7	55.4	86.2	104.7
160°	4.6	24.6	47.7	70.8	89.3
162.5°	4.6	23.1	41.6	58.5	75.4
165°	4.6	20.0	35.4	47.7	61.6
167.5°	4.6	15.4	29.2	36.9	50.8
170°	4.6	12.3	23.1	26.2	38.5
172.5°	4.6	9.2	16.9	18.5	20.0
175°	4.6	7.7	10.8	10.8	6.2
177.5°	4.6	6.2	6.2	6.2	3.1
180°	3.1	3.1	3.1	3.1	3.1

(END OF REPORT)