

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: P565974

Luminaire Tested: **4SNX-100HL-SLW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565974
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-100HL-SLW-UNV-L830-CD
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

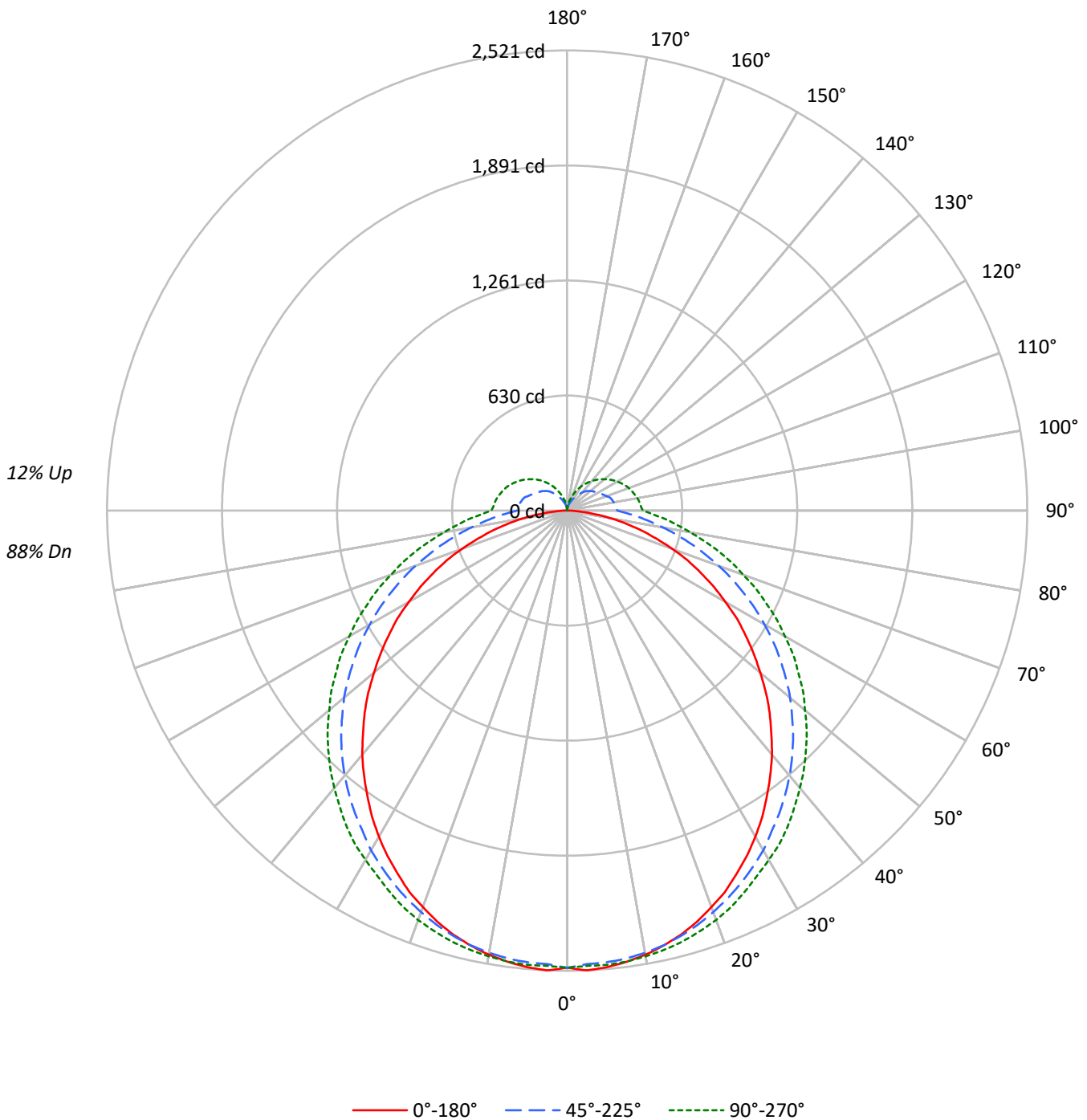
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9016.0 lumens
Efficiency: N/A
Efficacy: 124.4 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): 72.5
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°	26956	26956	26956
5°	27077	26269	26230
10°	26902	25750	25603
15°	26658	25191	25011
20°	26277	24579	24395
25°	25825	23966	23691
30°	25334	23350	23044
35°	24717	22661	22486
40°	24116	22030	21804
45°	23394	21331	21156
50°	22556	20588	20414
55°	21753	19719	19675
60°	20823	18778	18824
65°	19690	17704	17917
70°	18252	16491	16873
75°	16212	15099	15916
80°	13360	13714	14707
85°	9244	12478	13919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	2.6
10°-20°	683.9	7.6
20°-30°	1040.4	11.5
30°-40°	1265.0	14.0
40°-50°	1338.3	14.8
50°-60°	1254.5	13.9
60°-70°	1032.1	11.4
70°-80°	714.1	7.9
80°-90°	397.1	4.4
90°-100°	261.6	2.9
100°-110°	234.6	2.6
110°-120°	194.2	2.2
120°-130°	150.1	1.7
130°-140°	106.3	1.2
140°-150°	64.1	0.7
150°-160°	30.8	0.3
160°-170°	10.1	0.1
170°-180°	1.2	0.0
0°-30°	1962.0	21.8
0°-40°	3227.0	35.8
0°-60°	5819.9	64.6
0°-90°	7963.1	88.3
90°-120°	690.3	7.7
90°-150°	1010.8	11.2
90°-180°	1053.0	11.7
0°-180°	9016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2504	2504	2504	2504	2504	
5°	2510	2506	2484	2504	2498	238
15°	2406	2413	2412	2444	2444	678
25°	2196	2226	2253	2302	2304	1012
35°	1908	1959	2026	2090	2109	1194
45°	1569	1650	1751	1830	1851	1209
55°	1194	1300	1425	1515	1546	1068
65°	808	923	1067	1172	1204	801
75°	420	542	701	812	857	446
85°	93	230	389	497	540	107
90°	2	130	275	378	415	6
95°	2	124	267	366	401	1
105°	2	106	250	344	375	2
115°	3	93	212	306	340	2
125°	3	79	181	261	293	3
135°	3	62	151	215	241	2
145°	3	45	105	162	182	2
155°	5	31	65	103	120	2
165°	5	20	36	48	62	1
175°	5	8	11	11	6	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2504.3	2504.3	2504.3	2504.3	2504.3
2.5°	2521.3	2513.6	2487.3	2504.3	2496.6
5°	2510.5	2505.8	2484.2	2504.3	2498.1
7.5°	2493.5	2491.9	2475.0	2498.1	2491.9
10°	2470.3	2473.4	2459.5	2484.2	2479.6
12.5°	2441.0	2445.6	2439.5	2467.2	2464.2
15°	2405.5	2413.2	2411.7	2444.1	2444.1
17.5°	2362.3	2373.1	2379.2	2416.3	2416.3
20°	2311.3	2328.3	2340.6	2380.8	2387.0
22.5°	2260.4	2280.4	2299.0	2340.6	2349.9
25°	2195.5	2226.4	2252.6	2302.0	2303.6
27.5°	2132.2	2166.2	2201.7	2249.5	2254.2
30°	2062.7	2106.0	2149.2	2195.5	2209.4
32.5°	1988.6	2036.5	2084.3	2146.1	2164.6
35°	1908.3	1959.3	2025.7	2090.5	2109.0
37.5°	1828.0	1885.2	1962.4	2028.8	2045.7
40°	1746.2	1809.5	1896.0	1963.9	1984.0
42.5°	1655.1	1732.3	1825.0	1897.5	1920.7
45°	1568.7	1650.5	1750.8	1829.6	1851.2
47.5°	1477.6	1564.0	1672.1	1755.5	1780.2
50°	1380.3	1479.1	1594.9	1678.3	1701.4
52.5°	1289.2	1389.6	1511.5	1598.0	1630.4
55°	1193.5	1300.0	1425.1	1514.6	1545.5
57.5°	1103.9	1205.8	1340.2	1429.7	1468.3
60°	1002.0	1114.7	1249.1	1346.3	1377.2
62.5°	906.3	1020.6	1159.5	1259.9	1295.4
65°	807.5	923.3	1066.9	1171.9	1204.3
67.5°	714.9	829.1	975.8	1079.2	1120.9
70°	613.0	733.4	883.1	989.7	1025.2
72.5°	512.6	637.7	790.5	904.8	944.9
75°	420.0	541.9	701.0	812.1	856.9
77.5°	330.4	453.9	614.5	728.7	767.3
80°	240.9	370.5	534.2	646.9	684.0
82.5°	159.0	294.9	457.0	569.7	609.9
85°	92.6	230.0	389.1	497.2	540.4
87.5°	40.1	174.5	325.8	432.3	467.8
90°	1.5	129.7	274.8	378.3	415.3
92.5°	1.5	126.6	268.6	370.5	406.1
95°	1.5	123.5	267.1	365.9	401.4
97.5°	1.5	122.0	264.0	362.8	396.8
100°	1.5	117.3	259.4	356.7	390.6
102.5°	1.5	111.2	254.8	350.5	382.9
105°	1.5	106.5	250.1	344.3	375.2
107.5°	1.5	101.9	242.4	336.6	367.5
110°	1.5	97.3	230.0	328.9	359.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	95.7	220.8	318.1	350.5
115°	3.1	92.6	211.5	305.7	339.7
117.5°	3.1	91.1	203.8	293.4	328.9
120°	3.1	86.5	196.1	282.5	316.5
122.5°	3.1	81.8	188.4	271.7	305.7
125°	3.1	78.7	180.6	260.9	293.4
127.5°	3.1	74.1	174.5	250.1	279.5
130°	3.1	71.0	166.7	237.8	267.1
132.5°	3.1	66.4	159.0	225.4	253.2
135°	3.1	61.8	151.3	214.6	240.9
137.5°	3.1	55.6	142.0	202.3	227.0
140°	3.1	51.0	129.7	189.9	213.1
142.5°	3.1	47.9	117.3	176.0	197.6
145°	3.1	44.8	105.0	162.1	182.2
147.5°	3.1	41.7	94.2	148.2	166.7
150°	3.1	37.1	83.4	135.9	151.3
152.5°	4.6	34.0	74.1	120.4	135.9
155°	4.6	30.9	64.8	103.4	120.4
157.5°	4.6	27.8	55.6	86.5	105.0
160°	4.6	24.7	47.9	71.0	89.5
162.5°	4.6	23.2	41.7	58.7	75.7
165°	4.6	20.1	35.5	47.9	61.8
167.5°	4.6	15.4	29.3	37.1	51.0
170°	4.6	12.4	23.2	26.2	38.6
172.5°	4.6	9.3	17.0	18.5	20.1
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)