

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: P566070

Luminaire Tested: **4SNX-116HL-SLW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566070
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-116HL-SLW-UNV-L830-CD
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

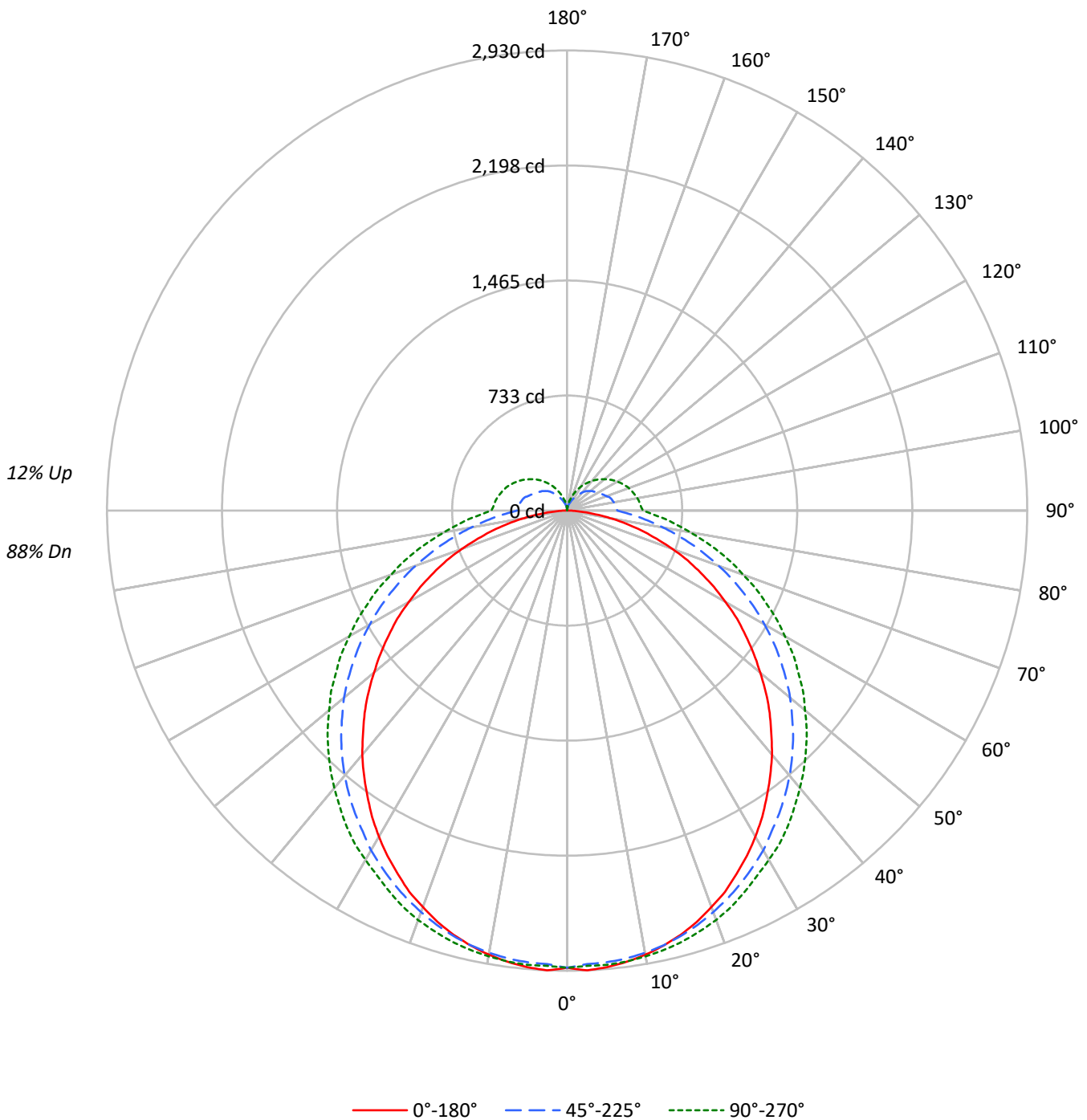
Lumens per Lamp: N/A
Luminaire Lumens: 10479.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 85.4
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°	31331	31331	31331
5°	31470	30531	30487
10°	31268	29928	29757
15°	30983	29279	29070
20°	30540	28568	28353
25°	30016	27856	27536
30°	29445	27138	26783
35°	28728	26338	26135
40°	28030	25604	25341
45°	27189	24793	24589
50°	26217	23928	23727
55°	25282	22918	22867
60°	24202	21824	21879
65°	22885	20576	20824
70°	21211	19167	19610
75°	18840	17547	18498
80°	15523	15940	17094
85°	10751	14502	16178



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.3	2.6
10°-20°	794.9	7.6
20°-30°	1209.2	11.5
30°-40°	1470.3	14.0
40°-50°	1555.5	14.8
50°-60°	1458.1	13.9
60°-70°	1199.5	11.4
70°-80°	830.0	7.9
80°-90°	461.5	4.4
90°-100°	304.0	2.9
100°-110°	272.6	2.6
110°-120°	225.7	2.2
120°-130°	174.5	1.7
130°-140°	123.5	1.2
140°-150°	74.5	0.7
150°-160°	35.8	0.3
160°-170°	11.7	0.1
170°-180°	1.4	0.0
0°-30°	2280.4	21.8
0°-40°	3750.7	35.8
0°-60°	6764.3	64.6
0°-90°	9255.3	88.3
90°-120°	802.4	7.7
90°-150°	1174.8	11.2
90°-180°	1224.0	11.7
0°-180°	10479.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2911	2911	2911	2911	2911	
5°	2918	2912	2887	2911	2904	277
15°	2796	2805	2803	2841	2841	788
25°	2552	2588	2618	2676	2677	1176
35°	2218	2277	2354	2430	2451	1388
45°	1823	1918	2035	2126	2152	1405
55°	1387	1511	1656	1760	1796	1242
65°	938	1073	1240	1362	1400	931
75°	488	630	815	944	996	518
85°	108	267	452	578	628	124
90°	2	151	319	440	483	7
95°	2	144	310	425	467	1
105°	2	124	291	400	436	2
115°	4	108	246	355	395	3
125°	4	92	210	303	341	3
135°	4	72	176	249	280	3
145°	4	52	122	188	212	2
155°	5	36	75	120	140	2
165°	5	23	41	56	72	2
175°	5	9	13	13	7	1
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2910.7	2910.7	2910.7	2910.7	2910.7
2.5°	2930.4	2921.4	2890.9	2910.7	2901.7
5°	2917.8	2912.5	2887.3	2910.7	2903.5
7.5°	2898.1	2896.3	2876.6	2903.5	2896.3
10°	2871.2	2874.8	2858.6	2887.3	2881.9
12.5°	2837.1	2842.5	2835.3	2867.6	2864.0
15°	2795.8	2804.8	2803.0	2840.7	2840.7
17.5°	2745.6	2758.1	2765.3	2808.4	2808.4
20°	2686.3	2706.1	2720.4	2767.1	2774.3
22.5°	2627.1	2650.5	2672.0	2720.4	2731.2
25°	2551.8	2587.7	2618.2	2675.6	2677.4
27.5°	2478.2	2517.7	2558.9	2614.6	2620.0
30°	2397.4	2447.7	2497.9	2551.8	2567.9
32.5°	2311.3	2366.9	2422.6	2494.3	2515.9
35°	2218.0	2277.2	2354.4	2429.7	2451.3
37.5°	2124.7	2191.1	2280.8	2358.0	2377.7
40°	2029.6	2103.1	2203.6	2282.6	2305.9
42.5°	1923.7	2013.4	2121.1	2205.4	2232.3
45°	1823.2	1918.3	2035.0	2126.5	2151.6
47.5°	1717.3	1817.8	1943.4	2040.3	2069.0
50°	1604.3	1719.1	1853.7	1950.6	1977.5
52.5°	1498.4	1615.0	1756.8	1857.3	1895.0
55°	1387.1	1511.0	1656.3	1760.4	1796.3
57.5°	1283.1	1401.5	1557.6	1661.7	1706.6
60°	1164.6	1295.6	1451.7	1564.8	1600.7
62.5°	1053.4	1186.2	1347.7	1464.3	1505.6
65°	938.5	1073.1	1240.0	1362.0	1399.7
67.5°	830.8	963.6	1134.1	1254.3	1302.8
70°	712.4	852.4	1026.4	1150.3	1191.5
72.5°	595.8	741.1	918.8	1051.6	1098.2
75°	488.1	629.9	814.7	943.9	995.9
77.5°	384.0	527.6	714.2	847.0	891.9
80°	279.9	430.7	620.9	751.9	795.0
82.5°	184.8	342.7	531.2	662.2	708.8
85°	107.7	267.4	452.2	577.8	628.1
87.5°	46.7	202.8	378.6	502.5	543.7
90°	1.8	150.7	319.4	439.6	482.7
92.5°	1.8	147.1	312.2	430.7	472.0
95°	1.8	143.6	310.4	425.3	466.6
97.5°	1.8	141.8	306.9	421.7	461.2
100°	1.8	136.4	301.5	414.5	454.0
102.5°	1.8	129.2	296.1	407.3	445.0
105°	1.8	123.8	290.7	400.2	436.1
107.5°	1.8	118.4	281.7	391.2	427.1
110°	1.8	113.1	267.4	382.2	418.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	111.3	256.6	369.7	407.3
115°	3.6	107.7	245.8	355.3	394.8
117.5°	3.6	105.9	236.9	341.0	382.2
120°	3.6	100.5	227.9	328.4	367.9
122.5°	3.6	95.1	218.9	315.8	355.3
125°	3.6	91.5	210.0	303.3	341.0
127.5°	3.6	86.1	202.8	290.7	324.8
130°	3.6	82.5	193.8	276.4	310.4
132.5°	3.6	77.2	184.8	262.0	294.3
135°	3.6	71.8	175.9	249.4	279.9
137.5°	3.6	64.6	165.1	235.1	263.8
140°	3.6	59.2	150.7	220.7	247.6
142.5°	3.6	55.6	136.4	204.6	229.7
145°	3.6	52.0	122.0	188.4	211.7
147.5°	3.6	48.5	109.5	172.3	193.8
150°	3.6	43.1	96.9	157.9	175.9
152.5°	5.4	39.5	86.1	140.0	157.9
155°	5.4	35.9	75.4	120.2	140.0
157.5°	5.4	32.3	64.6	100.5	122.0
160°	5.4	28.7	55.6	82.5	104.1
162.5°	5.4	26.9	48.5	68.2	87.9
165°	5.4	23.3	41.3	55.6	71.8
167.5°	5.4	17.9	34.1	43.1	59.2
170°	5.4	14.4	26.9	30.5	44.9
172.5°	5.4	10.8	19.7	21.5	23.3
175°	5.4	9.0	12.6	12.6	7.2
177.5°	5.4	7.2	7.2	7.2	3.6
180°	3.6	3.6	3.6	3.6	3.6

(END OF REPORT)