

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: P566046

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-116HL-LC-UNV-L830-CD
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

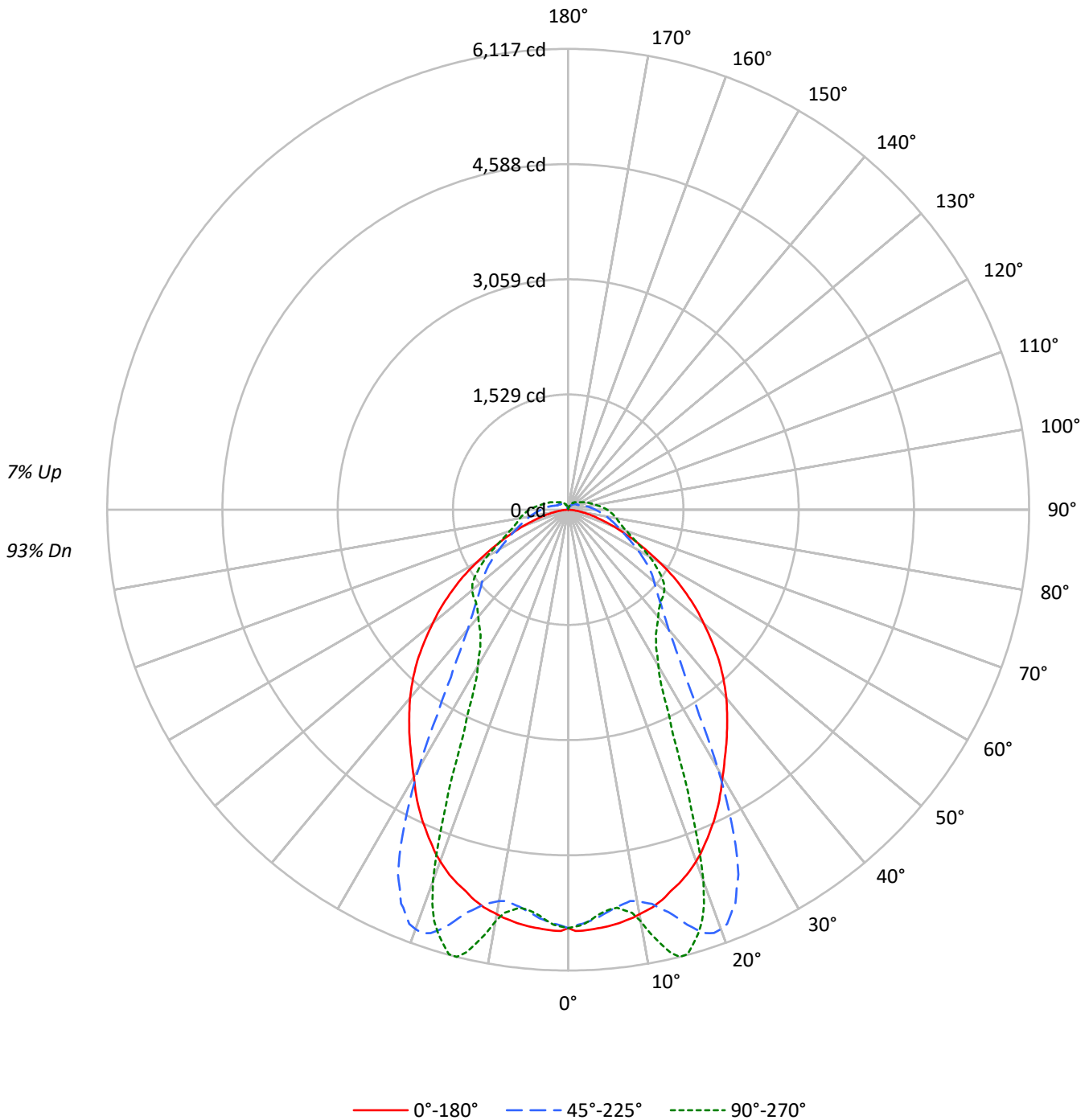
Lumens per Lamp: N/A
Luminaire Lumens: 12346.0 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 85.4
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

TEST NUMBER: P566046

CATALOG NUMBER: 4SNX-116HL-LC-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566046

CATALOG NUMBER: 4SNX-116HL-LC-UNV-L830-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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	59795	59795	59795
5°	59865	55806	54732
10°	59149	52988	54275
15°	57772	55116	57779
20°	56024	57400	48357
25°	53212	51452	29733
30°	49715	38291	21519
35°	46859	26407	18153
40°	44299	20476	16730
45°	41320	17417	15822
50°	37440	15615	15532
55°	33354	14105	14370
60°	28122	12190	12430
65°	22698	10601	10374
70°	17618	9512	9135
75°	13432	8826	8518
80°	9165	8336	8431
85°	4727	7928	8371



TEST NUMBER: P566046

CATALOG NUMBER: 4SNX-116HL-LC-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.9	4.2
10°-20°	1579.5	12.8
20°-30°	2126.8	17.2
30°-40°	2012.8	16.3
40°-50°	1776.6	14.4
50°-60°	1443.0	11.7
60°-70°	981.4	7.9
70°-80°	631.5	5.1
80°-90°	419.9	3.4
90°-100°	288.6	2.3
100°-110°	193.7	1.6
110°-120°	136.6	1.1
120°-130°	97.6	0.8
130°-140°	68.9	0.6
140°-150°	42.8	0.3
150°-160°	20.9	0.2
160°-170°	7.3	0.1
170°-180°	1.3	0.0
0°-30°	4223.2	34.2
0°-40°	6236.1	50.5
0°-60°	9455.7	76.6
0°-90°	11488.4	93.1
90°-120°	618.9	5.0
90°-150°	828.1	6.7
90°-180°	858.0	6.9
0°-180°	12346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5555	5555	5555	5555	5555	
5°	5561	5510	5391	5387	5361	527
15°	5242	5208	5610	6106	6111	1478
25°	4567	5416	5344	3881	3282	2096
35°	3670	5150	2714	2090	2026	2297
45°	2828	3465	1717	1696	1732	2171
55°	1883	2049	1289	1440	1495	1682
65°	971	1105	863	960	990	975
75°	373	522	609	682	714	406
85°	56	222	432	547	584	74
90°	2	155	360	484	516	3
95°	2	119	304	411	439	2
105°	4	83	200	281	315	4
115°	4	72	147	209	236	4
125°	6	60	126	158	170	5
135°	8	47	104	132	140	6
145°	8	34	74	102	111	5
155°	9	21	45	68	77	4
165°	9	13	24	34	42	3
175°	11	11	11	11	9	1
180°	9	9	9	9	9	



TEST NUMBER: P566046

CATALOG NUMBER: 4SNX-116HL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5555.1	5555.1	5555.1	5555.1	5555.1
1°	5592.8	5575.8	5519.3	5549.4	5534.4
2°	5590.9	5562.6	5498.5	5532.5	5513.6
3°	5581.5	5551.3	5468.4	5489.1	5460.8
4°	5572.1	5536.2	5436.3	5436.3	5404.3
5°	5560.7	5509.9	5391.1	5387.3	5360.9
6°	5547.6	5489.1	5351.5	5347.7	5332.7
7°	5528.7	5453.3	5308.2	5334.5	5323.2
8°	5506.1	5419.4	5285.5	5351.5	5368.5
9°	5485.3	5377.9	5259.1	5404.3	5417.5
10°	5451.4	5340.2	5276.1	5509.9	5549.4
11°	5423.1	5308.2	5313.8	5613.5	5732.3
12°	5394.9	5274.2	5349.6	5743.6	5888.7
13°	5347.7	5247.8	5428.8	5885.0	6033.9
14°	5306.3	5227.1	5506.1	6028.2	6116.8
15°	5242.2	5208.3	5609.8	6105.5	6111.2
16°	5198.8	5195.1	5730.4	6111.2	6005.6
17°	5149.8	5189.4	5828.4	6013.1	5888.7
18°	5095.2	5200.7	5909.5	5890.6	5747.4
19°	5032.9	5212.0	5943.4	5721.0	5536.2
20°	4965.1	5229.0	5924.6	5543.8	5246.0
21°	4897.2	5251.6	5888.7	5357.2	4865.2
22.5°	4770.9	5306.3	5719.1	4833.1	4235.6
23°	4735.1	5317.6	5679.5	4669.1	4071.6
24°	4646.5	5364.7	5498.5	4286.5	3638.0
25°	4567.4	5415.6	5344.0	3881.2	3281.8
26°	4478.8	5453.3	5110.2	3508.0	3063.1
27°	4392.0	5475.9	4844.4	3217.7	2818.1
28°	4292.1	5500.4	4556.0	2967.0	2633.3
29°	4197.9	5504.2	4271.4	2767.2	2488.2
30°	4096.1	5485.3	3971.7	2607.0	2397.7
32.5°	3873.7	5381.7	3238.4	2301.6	2171.5
35°	3670.1	5149.8	2714.4	2090.5	2026.4
37.5°	3464.6	4784.1	2346.8	1958.5	1937.8
40°	3262.9	4350.6	2069.7	1853.0	1856.7
42.5°	3049.9	3903.8	1879.3	1766.2	1783.2
45°	2827.5	3464.6	1717.2	1696.5	1732.3
47.5°	2580.6	3063.1	1589.1	1651.3	1705.9
50°	2346.8	2665.4	1489.1	1607.9	1664.5
52.5°	2124.4	2339.3	1398.7	1534.4	1600.4
55°	1883.1	2049.0	1289.3	1440.1	1494.8
57.5°	1653.1	1787.0	1174.4	1323.3	1372.3
60°	1400.6	1528.7	1057.5	1197.0	1244.1
62.5°	1172.5	1308.2	957.6	1070.7	1108.4
65°	970.8	1104.6	863.3	959.5	989.6



TEST NUMBER: P566046

CATALOG NUMBER: 4SNX-116HL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	791.7	935.0	786.0	867.1	895.4
70°	623.9	774.7	718.2	791.7	821.9
72.5°	488.2	640.9	661.6	729.5	759.7
75°	373.2	522.1	608.9	682.4	714.4
77.5°	277.1	426.0	559.8	644.7	678.6
80°	182.8	339.3	516.5	610.7	650.3
82.5°	115.0	273.3	473.1	576.8	618.3
85°	56.5	222.4	431.7	546.6	584.3
87.5°	18.8	184.7	394.0	516.5	548.5
90°	1.9	154.6	360.0	484.4	516.5
92.5°	1.9	133.8	331.8	446.7	478.8
95°	1.9	118.8	303.5	410.9	439.2
97.5°	1.9	107.4	277.1	373.2	403.4
100°	1.9	96.1	248.8	337.4	369.5
102.5°	3.8	88.6	224.3	307.3	341.2
105°	3.8	82.9	199.8	280.9	314.8
107.5°	3.8	79.2	179.1	260.1	292.2
110°	3.8	75.4	164.0	241.3	275.2
112.5°	3.8	73.5	154.6	224.3	256.4
115°	3.8	71.6	147.0	209.2	235.6
117.5°	5.7	69.7	141.4	194.2	214.9
120°	5.7	66.0	137.6	181.0	197.9
122.5°	5.7	62.2	131.9	169.6	182.8
125°	5.7	60.3	126.3	158.3	169.6
127.5°	5.7	56.5	120.6	148.9	160.2
130°	7.5	52.8	115.0	141.4	150.8
132.5°	7.5	49.0	109.3	137.6	145.1
135°	7.5	47.1	103.7	131.9	139.5
137.5°	7.5	43.4	98.0	126.3	133.8
140°	7.5	39.6	90.5	118.8	126.3
142.5°	7.5	37.7	82.9	111.2	118.8
145°	7.5	33.9	73.5	101.8	111.2
147.5°	9.4	32.0	66.0	94.2	101.8
150°	9.4	28.3	58.4	86.7	94.2
152.5°	9.4	24.5	50.9	77.3	84.8
155°	9.4	20.7	45.2	67.9	77.3
157.5°	9.4	18.8	39.6	56.5	67.9
160°	9.4	17.0	33.9	49.0	58.4
162.5°	9.4	15.1	30.2	41.5	50.9
165°	9.4	13.2	24.5	33.9	41.5
167.5°	11.3	13.2	20.7	26.4	33.9
170°	11.3	13.2	17.0	20.7	26.4
172.5°	11.3	11.3	13.2	15.1	17.0
175°	11.3	11.3	11.3	11.3	9.4
177.5°	11.3	11.3	11.3	9.4	9.4



TEST NUMBER: P566046

CATALOG NUMBER: 4SNX-116HL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	9.4	9.4	9.4	9.4	9.4

(END OF REPORT)