

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: P566048

Luminaire Tested: **4SNX-116HL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566048
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-L840-CD
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

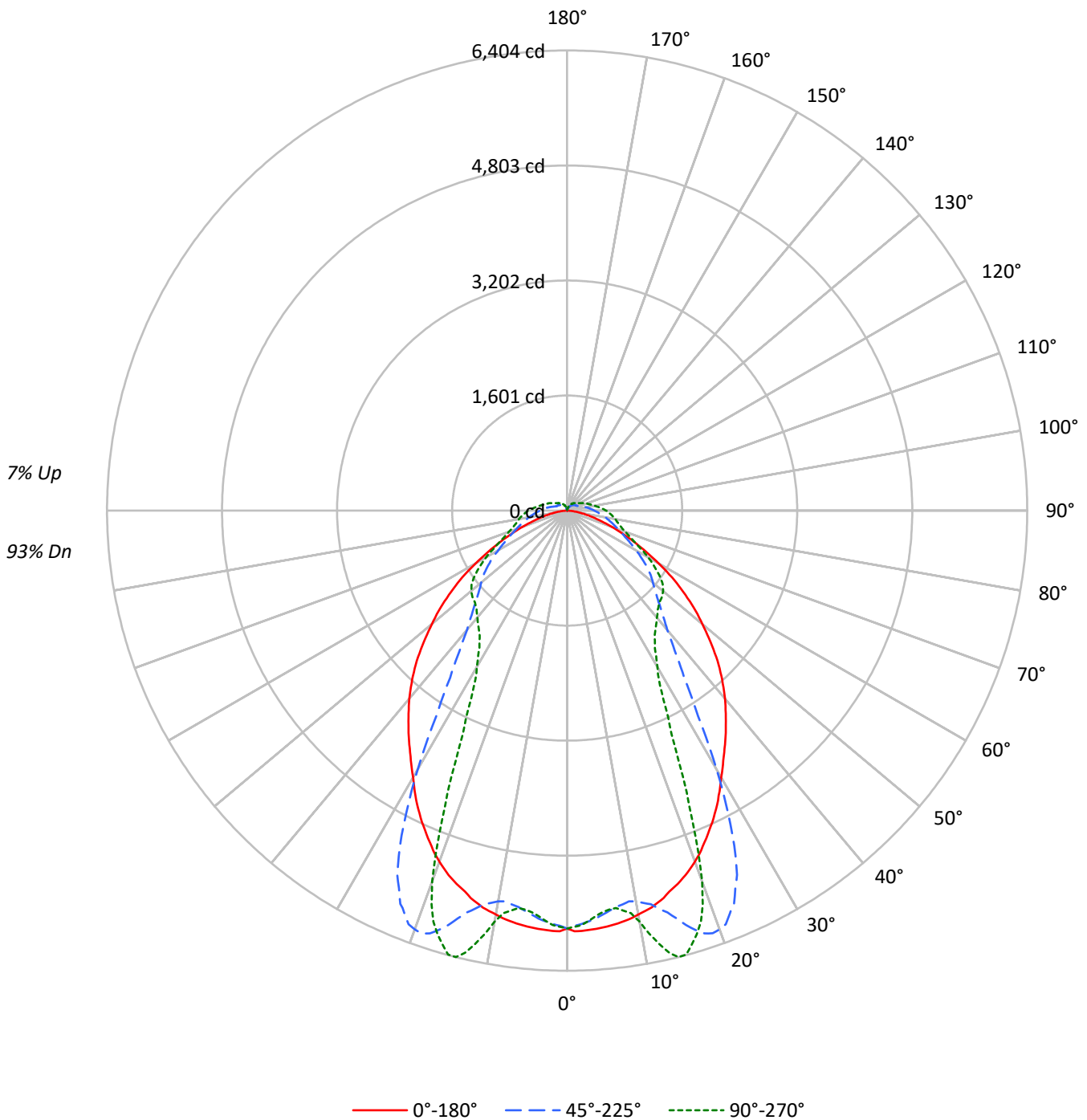
Lumens per Lamp: N/A
Luminaire Lumens: 12926.0 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

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

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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	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°	62604	62604	62604
5°	62678	58428	57304
10°	61928	55477	56824
15°	60486	57705	60494
20°	58656	60097	50629
25°	55711	53868	31130
30°	52050	40090	22530
35°	49060	27647	19006
40°	46380	21439	17517
45°	43261	18235	16565
50°	39199	16349	16261
55°	34922	14768	15045
60°	29443	12763	13013
65°	23764	11100	10861
70°	18446	9959	9564
75°	14066	9240	8918
80°	9597	8728	8828
85°	4953	8299	8765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.2	4.2
10°-20°	1653.7	12.8
20°-30°	2226.7	17.2
30°-40°	2107.4	16.3
40°-50°	1860.1	14.4
50°-60°	1510.8	11.7
60°-70°	1027.5	7.9
70°-80°	661.1	5.1
80°-90°	439.6	3.4
90°-100°	302.1	2.3
100°-110°	202.8	1.6
110°-120°	143.0	1.1
120°-130°	102.2	0.8
130°-140°	72.1	0.6
140°-150°	44.8	0.3
150°-160°	21.8	0.2
160°-170°	7.6	0.1
170°-180°	1.3	0.0
0°-30°	4421.6	34.2
0°-40°	6529.0	50.5
0°-60°	9899.9	76.6
0°-90°	12028.2	93.1
90°-120°	648.0	5.0
90°-150°	867.0	6.7
90°-180°	898.0	6.9
0°-180°	12926.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5816	5816	5816	5816	5816	
5°	5822	5769	5644	5640	5613	552
15°	5488	5453	5873	6392	6398	1547
25°	4782	5670	5595	4064	3436	2194
35°	3842	5392	2842	2189	2122	2405
45°	2960	3627	1798	1776	1814	2273
55°	1972	2145	1350	1508	1565	1761
65°	1016	1156	904	1004	1036	1020
75°	391	547	638	714	748	425
85°	59	233	452	572	612	78
90°	2	162	377	507	541	4
95°	2	124	318	430	460	2
105°	4	87	209	294	330	4
115°	4	75	154	219	247	5
125°	6	63	132	166	178	6
135°	8	49	108	138	146	6
145°	8	36	77	107	116	5
155°	10	22	47	71	81	5
165°	10	14	26	36	43	3
175°	12	12	12	12	10	1
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5816.1	5816.1	5816.1	5816.1	5816.1
1°	5855.5	5837.8	5778.6	5810.1	5794.4
2°	5853.6	5824.0	5756.9	5792.4	5772.6
3°	5843.7	5812.1	5725.3	5747.0	5717.4
4°	5833.8	5796.3	5691.7	5691.7	5658.2
5°	5822.0	5768.7	5644.4	5640.4	5612.8
6°	5808.2	5747.0	5602.9	5599.0	5583.2
7°	5788.4	5709.5	5557.5	5585.2	5573.3
8°	5764.8	5674.0	5533.8	5602.9	5620.7
9°	5743.0	5630.5	5506.2	5658.2	5672.0
10°	5707.5	5591.1	5524.0	5768.7	5810.1
11°	5677.9	5557.5	5563.4	5877.2	6001.6
12°	5648.3	5522.0	5600.9	6013.4	6165.4
13°	5599.0	5494.4	5683.8	6161.4	6317.3
14°	5555.6	5472.7	5764.8	6311.4	6404.2
15°	5488.5	5452.9	5873.3	6392.3	6398.3
16°	5443.1	5439.1	5999.6	6398.3	6287.7
17°	5391.7	5433.2	6102.2	6295.6	6165.4
18°	5334.5	5445.0	6187.1	6167.4	6017.4
19°	5269.4	5456.9	6222.6	5989.7	5796.3
20°	5198.3	5474.6	6202.9	5804.2	5492.4
21°	5127.3	5498.3	6165.4	5608.8	5093.7
22.5°	4995.1	5555.6	5987.8	5060.2	4434.6
23°	4957.6	5567.4	5946.3	4888.5	4262.9
24°	4864.8	5616.7	5756.9	4487.9	3809.0
25°	4781.9	5670.0	5595.0	4063.5	3436.0
26°	4689.2	5709.5	5350.3	3672.8	3207.0
27°	4598.4	5733.2	5072.0	3368.9	2950.5
28°	4493.8	5758.8	4770.1	3106.4	2757.1
29°	4395.1	5762.8	4472.1	2897.2	2605.1
30°	4288.5	5743.0	4158.3	2729.4	2510.4
32.5°	4055.7	5634.5	3390.6	2409.7	2273.5
35°	3842.5	5391.7	2841.9	2188.7	2121.6
37.5°	3627.4	5008.9	2457.1	2050.5	2028.8
40°	3416.2	4555.0	2167.0	1940.0	1944.0
42.5°	3193.2	4087.2	1967.6	1849.2	1867.0
45°	2960.3	3627.4	1797.9	1776.2	1813.7
47.5°	2701.8	3207.0	1663.7	1728.8	1786.1
50°	2457.1	2790.6	1559.1	1683.4	1742.6
52.5°	2224.2	2449.2	1464.4	1606.5	1675.5
55°	1971.6	2145.3	1349.9	1507.8	1565.0
57.5°	1730.8	1870.9	1229.5	1385.4	1436.7
60°	1466.4	1600.6	1107.2	1253.2	1302.5
62.5°	1227.6	1369.6	1002.6	1121.0	1160.4
65°	1016.4	1156.5	903.9	1004.5	1036.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	828.9	978.9	823.0	907.8	937.4
70°	653.2	811.1	751.9	828.9	860.5
72.5°	511.2	671.0	692.7	763.8	795.3
75°	390.8	546.7	637.5	714.4	748.0
77.5°	290.1	446.0	586.1	675.0	710.5
80°	191.4	355.2	540.8	639.4	680.9
82.5°	120.4	286.2	495.4	603.9	647.3
85°	59.2	232.9	451.9	572.3	611.8
87.5°	19.7	193.4	412.5	540.8	574.3
90°	2.0	161.8	376.9	507.2	540.8
92.5°	2.0	140.1	347.3	467.7	501.3
95°	2.0	124.3	317.7	430.2	459.8
97.5°	2.0	112.5	290.1	390.8	422.3
100°	2.0	100.7	260.5	353.3	386.8
102.5°	3.9	92.8	234.9	321.7	357.2
105°	3.9	86.8	209.2	294.1	329.6
107.5°	3.9	82.9	187.5	272.4	305.9
110°	3.9	78.9	171.7	252.6	288.1
112.5°	3.9	77.0	161.8	234.9	268.4
115°	3.9	75.0	153.9	219.1	246.7
117.5°	5.9	73.0	148.0	203.3	225.0
120°	5.9	69.1	144.1	189.5	207.2
122.5°	5.9	65.1	138.1	177.6	191.4
125°	5.9	63.2	132.2	165.8	177.6
127.5°	5.9	59.2	126.3	155.9	167.8
130°	7.9	55.3	120.4	148.0	157.9
132.5°	7.9	51.3	114.5	144.1	152.0
135°	7.9	49.3	108.5	138.1	146.0
137.5°	7.9	45.4	102.6	132.2	140.1
140°	7.9	41.4	94.7	124.3	132.2
142.5°	7.9	39.5	86.8	116.4	124.3
145°	7.9	35.5	77.0	106.6	116.4
147.5°	9.9	33.6	69.1	98.7	106.6
150°	9.9	29.6	61.2	90.8	98.7
152.5°	9.9	25.7	53.3	80.9	88.8
155°	9.9	21.7	47.4	71.0	80.9
157.5°	9.9	19.7	41.4	59.2	71.0
160°	9.9	17.8	35.5	51.3	61.2
162.5°	9.9	15.8	31.6	43.4	53.3
165°	9.9	13.8	25.7	35.5	43.4
167.5°	11.8	13.8	21.7	27.6	35.5
170°	11.8	13.8	17.8	21.7	27.6
172.5°	11.8	11.8	13.8	15.8	17.8
175°	11.8	11.8	11.8	11.8	9.9
177.5°	11.8	11.8	11.8	9.9	9.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	9.9	9.9	9.9	9.9	9.9

(END OF REPORT)