

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: P566911

Luminaire Tested: **4SNX-87HL-LC-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566911
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-87HL-LC-UNV-L835-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

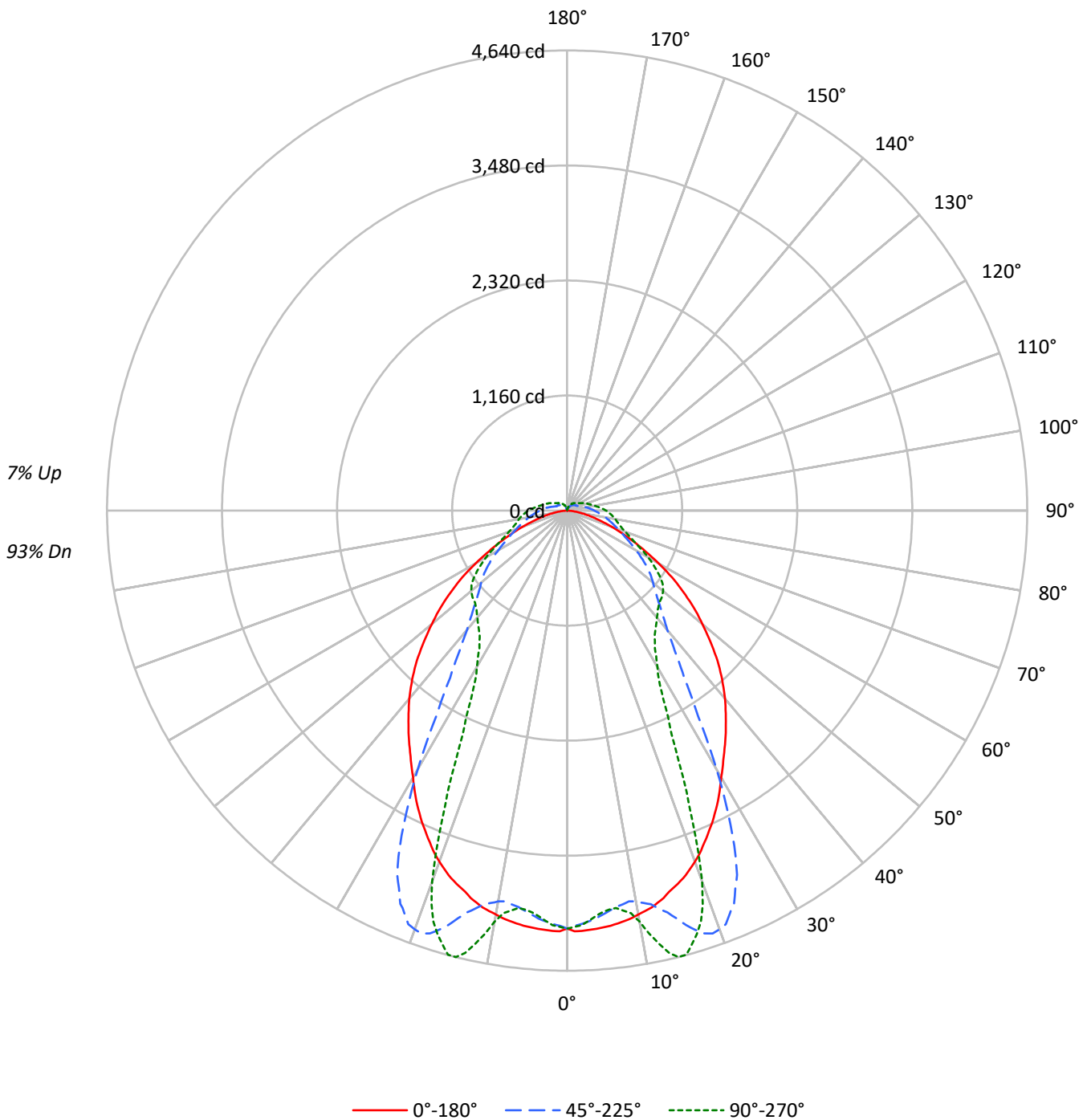
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9366.0 lumens
Efficiency: N/A
Efficacy: 150.6 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): 62.2
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

TEST NUMBER: P566911
CATALOG NUMBER: 4SNX-87HL-LC-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566911

CATALOG NUMBER: 4SNX-87HL-LC-UNV-L835-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	50	30	10	
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°	45361	45361	45361
5°	45415	42335	41521
10°	44872	40198	41174
15°	43828	41812	43833
20°	42501	43545	36685
25°	40367	39033	22556
30°	37715	29049	16325
35°	35548	20033	13772
40°	33606	15534	12692
45°	31346	13212	12003
50°	28404	11846	11783
55°	25304	10701	10901
60°	21334	9247	9429
65°	17220	8042	7870
70°	13365	7216	6930
75°	10189	6695	6462
80°	6954	6324	6397
85°	3589	6014	6351



TEST NUMBER: P566911

CATALOG NUMBER: 4SNX-87HL-LC-UNV-L835-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.1	4.2
10°-20°	1198.3	12.8
20°-30°	1613.5	17.2
30°-40°	1527.0	16.3
40°-50°	1347.8	14.4
50°-60°	1094.7	11.7
60°-70°	744.5	7.9
70°-80°	479.1	5.1
80°-90°	318.5	3.4
90°-100°	218.9	2.3
100°-110°	147.0	1.6
110°-120°	103.7	1.1
120°-130°	74.1	0.8
130°-140°	52.2	0.6
140°-150°	32.4	0.3
150°-160°	15.8	0.2
160°-170°	5.5	0.1
170°-180°	1.0	0.0
0°-30°	3203.9	34.2
0°-40°	4730.8	50.5
0°-60°	7173.3	76.6
0°-90°	8715.4	93.1
90°-120°	469.5	5.0
90°-150°	628.3	6.7
90°-180°	651.0	7.0
0°-180°	9366.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4214	4214	4214	4214	4214	
5°	4218	4180	4090	4087	4067	400
15°	3977	3951	4256	4632	4636	1121
25°	3465	4108	4054	2944	2490	1590
35°	2784	3907	2059	1586	1537	1742
45°	2145	2628	1303	1287	1314	1647
55°	1429	1554	978	1092	1134	1276
65°	736	838	655	728	751	739
75°	283	396	462	518	542	308
85°	43	169	328	415	443	56
90°	1	117	273	368	392	3
95°	1	90	230	312	333	1
105°	3	63	152	213	239	3
115°	3	54	112	159	179	3
125°	4	46	96	120	129	4
135°	6	36	79	100	106	4
145°	6	26	56	77	84	4
155°	7	16	34	52	59	3
165°	7	10	19	26	32	2
175°	9	9	9	9	7	1
180°	7	7	7	7	7	



TEST NUMBER: P566911

CATALOG NUMBER: 4SNX-87HL-LC-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4214.2	4214.2	4214.2	4214.2	4214.2
1°	4242.8	4230.0	4187.1	4209.9	4198.5
2°	4241.4	4220.0	4171.3	4197.1	4182.8
3°	4234.3	4211.4	4148.5	4164.2	4142.7
4°	4227.1	4199.9	4124.1	4124.1	4099.8
5°	4218.5	4179.9	4089.8	4087.0	4066.9
6°	4208.5	4164.2	4059.8	4056.9	4045.5
7°	4194.2	4137.0	4026.9	4046.9	4038.3
8°	4177.1	4111.3	4009.7	4059.8	4072.7
9°	4161.3	4079.8	3989.7	4099.8	4109.8
10°	4135.6	4051.2	4002.6	4179.9	4209.9
11°	4114.1	4026.9	4031.2	4258.6	4348.7
12°	4092.7	4001.2	4058.4	4357.2	4467.4
13°	4056.9	3981.1	4118.4	4464.5	4577.5
14°	4025.5	3965.4	4177.1	4573.2	4640.4
15°	3976.9	3951.1	4255.7	4631.8	4636.1
16°	3944.0	3941.1	4347.2	4636.1	4556.0
17°	3906.8	3936.8	4421.6	4561.7	4467.4
18°	3865.3	3945.4	4483.1	4468.8	4360.1
19°	3818.1	3954.0	4508.8	4340.1	4199.9
20°	3766.6	3966.8	4494.5	4205.7	3979.7
21°	3715.2	3984.0	4467.4	4064.1	3690.9
22.5°	3619.4	4025.5	4338.6	3666.5	3213.2
23°	3592.2	4034.1	4308.6	3542.1	3088.8
24°	3525.0	4069.8	4171.3	3251.8	2759.9
25°	3464.9	4108.4	4054.1	2944.4	2489.6
26°	3397.7	4137.0	3876.8	2661.2	2323.8
27°	3331.9	4154.2	3675.1	2441.0	2137.9
28°	3256.1	4172.8	3456.3	2250.8	1997.7
29°	3184.6	4175.6	3240.4	2099.3	1887.6
30°	3107.4	4161.3	3013.0	1977.7	1819.0
32.5°	2938.7	4082.7	2456.8	1746.0	1647.4
35°	2784.2	3906.8	2059.2	1585.9	1537.3
37.5°	2628.4	3629.4	1780.4	1485.8	1470.0
40°	2475.3	3300.5	1570.2	1405.7	1408.6
42.5°	2313.8	2961.6	1425.7	1339.9	1352.8
45°	2145.0	2628.4	1302.7	1287.0	1314.2
47.5°	1957.7	2323.8	1205.5	1252.7	1294.2
50°	1780.4	2022.0	1129.7	1219.8	1262.7
52.5°	1611.6	1774.6	1061.1	1164.0	1214.1
55°	1428.6	1554.4	978.1	1092.5	1134.0
57.5°	1254.1	1355.6	890.9	1003.9	1041.0
60°	1062.5	1159.7	802.2	908.1	943.8
62.5°	889.5	992.4	726.4	812.2	840.8
65°	736.5	838.0	654.9	727.9	750.8



TEST NUMBER: P566911

CATALOG NUMBER: 4SNX-87HL-LC-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	600.6	709.3	596.3	657.8	679.3
70°	473.3	587.7	544.8	600.6	623.5
72.5°	370.4	486.2	501.9	553.4	576.3
75°	283.1	396.1	461.9	517.7	542.0
77.5°	210.2	323.2	424.7	489.1	514.8
80°	138.7	257.4	391.8	463.3	493.4
82.5°	87.2	207.4	358.9	437.6	469.0
85°	42.9	168.7	327.5	414.7	443.3
87.5°	14.3	140.1	298.9	391.8	416.1
90°	1.4	117.3	273.1	367.5	391.8
92.5°	1.4	101.5	251.7	338.9	363.2
95°	1.4	90.1	230.2	311.7	333.2
97.5°	1.4	81.5	210.2	283.1	306.0
100°	1.4	72.9	188.8	256.0	280.3
102.5°	2.9	67.2	170.2	233.1	258.8
105°	2.9	62.9	151.6	213.1	238.8
107.5°	2.9	60.1	135.9	197.3	221.7
110°	2.9	57.2	124.4	183.0	208.8
112.5°	2.9	55.8	117.3	170.2	194.5
115°	2.9	54.3	111.5	158.7	178.8
117.5°	4.3	52.9	107.3	147.3	163.0
120°	4.3	50.1	104.4	137.3	150.2
122.5°	4.3	47.2	100.1	128.7	138.7
125°	4.3	45.8	95.8	120.1	128.7
127.5°	4.3	42.9	91.5	113.0	121.6
130°	5.7	40.0	87.2	107.3	114.4
132.5°	5.7	37.2	82.9	104.4	110.1
135°	5.7	35.8	78.7	100.1	105.8
137.5°	5.7	32.9	74.4	95.8	101.5
140°	5.7	30.0	68.6	90.1	95.8
142.5°	5.7	28.6	62.9	84.4	90.1
145°	5.7	25.7	55.8	77.2	84.4
147.5°	7.2	24.3	50.1	71.5	77.2
150°	7.2	21.5	44.3	65.8	71.5
152.5°	7.2	18.6	38.6	58.6	64.4
155°	7.2	15.7	34.3	51.5	58.6
157.5°	7.2	14.3	30.0	42.9	51.5
160°	7.2	12.9	25.7	37.2	44.3
162.5°	7.2	11.4	22.9	31.5	38.6
165°	7.2	10.0	18.6	25.7	31.5
167.5°	8.6	10.0	15.7	20.0	25.7
170°	8.6	10.0	12.9	15.7	20.0
172.5°	8.6	8.6	10.0	11.4	12.9
175°	8.6	8.6	8.6	8.6	7.2
177.5°	8.6	8.6	8.6	7.2	7.2



TEST NUMBER: P566911

CATALOG NUMBER: 4SNX-87HL-LC-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	7.2	7.2	7.2	7.2	7.2

(END OF REPORT)