

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: P566912

Luminaire Tested: **4SNX-87HL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566912
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-L840-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

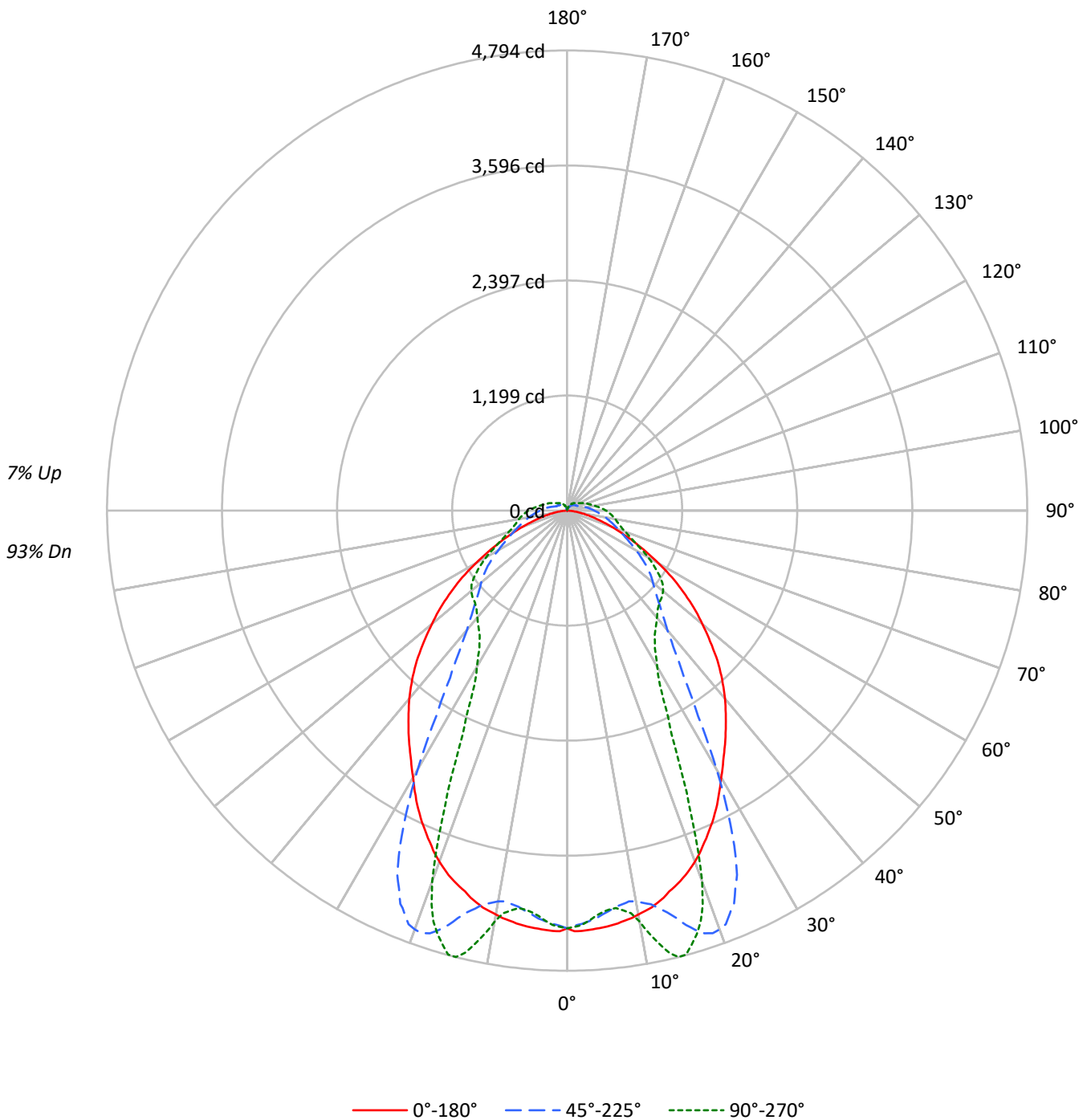
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9675.0 lumens
Efficiency: N/A
Efficacy: 155.5 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

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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°	46859	46859	46859
5°	46914	43733	42891
10°	46352	41524	42532
15°	45274	43192	45278
20°	43903	44982	37895
25°	41699	40320	23301
30°	38959	30007	16863
35°	36721	20694	14226
40°	34715	16047	13110
45°	32381	13649	12399
50°	29340	12237	12172
55°	26138	11054	11261
60°	22038	9553	9740
65°	17788	8308	8129
70°	13806	7454	7159
75°	10528	6915	6676
80°	7185	6532	6607
85°	3706	6213	6560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.1	4.2
10°-20°	1237.8	12.8
20°-30°	1666.7	17.2
30°-40°	1577.4	16.3
40°-50°	1392.3	14.4
50°-60°	1130.8	11.7
60°-70°	769.1	7.9
70°-80°	494.8	5.1
80°-90°	329.0	3.4
90°-100°	226.1	2.3
100°-110°	151.8	1.6
110°-120°	107.1	1.1
120°-130°	76.5	0.8
130°-140°	54.0	0.6
140°-150°	33.5	0.3
150°-160°	16.3	0.2
160°-170°	5.7	0.1
170°-180°	1.0	0.0
0°-30°	3309.6	34.2
0°-40°	4886.9	50.5
0°-60°	7410.0	76.6
0°-90°	9003.0	93.1
90°-120°	485.0	5.0
90°-150°	649.0	6.7
90°-180°	672.0	6.9
0°-180°	9675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4353	4353	4353	4353	4353	
5°	4358	4318	4225	4222	4201	413
15°	4108	4082	4396	4785	4789	1158
25°	3579	4244	4188	3042	2572	1642
35°	2876	4036	2127	1638	1588	1800
45°	2216	2715	1346	1330	1358	1701
55°	1476	1606	1010	1129	1171	1318
65°	761	866	677	752	776	764
75°	292	409	477	535	560	318
85°	44	174	338	428	458	58
90°	2	121	282	380	405	3
95°	2	93	238	322	344	1
105°	3	65	157	220	247	3
115°	3	56	115	164	185	3
125°	4	47	99	124	133	4
135°	6	37	81	103	109	5
145°	6	27	58	80	87	4
155°	7	16	36	53	61	3
165°	7	10	19	27	32	2
175°	9	9	9	9	7	1
180°	7	7	7	7	7	



TEST NUMBER: P566912

CATALOG NUMBER: 4SNX-87HL-LC-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4353.3	4353.3	4353.3	4353.3	4353.3
1°	4382.8	4369.5	4325.2	4348.8	4337.0
2°	4381.3	4359.2	4309.0	4335.5	4320.8
3°	4374.0	4350.3	4285.3	4301.6	4279.4
4°	4366.6	4338.5	4260.2	4260.2	4235.1
5°	4357.7	4317.8	4224.8	4221.8	4201.1
6°	4347.4	4301.6	4193.7	4190.8	4179.0
7°	4332.6	4273.5	4159.8	4180.4	4171.6
8°	4314.9	4246.9	4142.0	4193.7	4207.0
9°	4298.6	4214.4	4121.4	4235.1	4245.4
10°	4272.0	4184.9	4134.6	4317.8	4348.8
11°	4249.9	4159.8	4164.2	4399.1	4492.1
12°	4227.7	4133.2	4192.3	4501.0	4614.7
13°	4190.8	4112.5	4254.3	4611.8	4728.5
14°	4158.3	4096.2	4314.9	4724.0	4793.5
15°	4108.1	4081.5	4396.1	4784.6	4789.0
16°	4074.1	4071.1	4490.7	4789.0	4706.3
17°	4035.7	4066.7	4567.5	4712.2	4614.7
18°	3992.8	4075.6	4631.0	4616.2	4503.9
19°	3944.1	4084.4	4657.6	4483.3	4338.5
20°	3890.9	4097.7	4642.8	4344.4	4111.0
21°	3837.7	4115.4	4614.7	4198.2	3812.6
22.5°	3738.8	4158.3	4481.8	3787.5	3319.2
23°	3710.7	4167.1	4450.8	3659.0	3190.7
24°	3641.3	4204.1	4309.0	3359.1	2851.0
25°	3579.2	4244.0	4187.8	3041.5	2571.8
26°	3509.8	4273.5	4004.7	2749.0	2400.4
27°	3441.8	4291.2	3796.4	2521.6	2208.4
28°	3363.6	4310.4	3570.4	2325.1	2063.6
29°	3289.7	4313.4	3347.3	2168.5	1949.9
30°	3209.9	4298.6	3112.4	2043.0	1879.0
32.5°	3035.6	4217.4	2537.8	1803.6	1701.7
35°	2876.1	4035.7	2127.2	1638.2	1588.0
37.5°	2715.1	3749.1	1839.1	1534.8	1518.5
40°	2557.0	3409.4	1622.0	1452.1	1455.0
42.5°	2390.1	3059.3	1472.8	1384.1	1397.4
45°	2215.8	2715.1	1345.7	1329.5	1357.5
47.5°	2022.3	2400.4	1245.3	1294.0	1336.9
50°	1839.1	2088.7	1167.0	1260.0	1304.4
52.5°	1664.8	1833.2	1096.1	1202.4	1254.1
55°	1475.7	1605.7	1010.4	1128.6	1171.4
57.5°	1295.5	1400.4	920.3	1037.0	1075.4
60°	1097.6	1198.0	828.7	938.0	974.9
62.5°	918.8	1025.2	750.4	839.0	868.6
65°	760.8	865.6	676.6	751.9	775.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	620.4	732.7	616.0	679.5	701.7
70°	488.9	607.1	562.8	620.4	644.1
72.5°	382.6	502.2	518.5	571.7	595.3
75°	292.5	409.2	477.1	534.7	559.9
77.5°	217.1	333.8	438.7	505.2	531.8
80°	143.3	265.9	404.7	478.6	509.6
82.5°	90.1	214.2	370.8	452.0	484.5
85°	44.3	174.3	338.3	428.4	457.9
87.5°	14.8	144.8	308.7	404.7	429.9
90°	1.5	121.1	282.1	379.6	404.7
92.5°	1.5	104.9	260.0	350.1	375.2
95°	1.5	93.1	237.8	322.0	344.2
97.5°	1.5	84.2	217.1	292.5	316.1
100°	1.5	75.3	195.0	264.4	289.5
102.5°	3.0	69.4	175.8	240.8	267.4
105°	3.0	65.0	156.6	220.1	246.7
107.5°	3.0	62.0	140.3	203.9	229.0
110°	3.0	59.1	128.5	189.1	215.7
112.5°	3.0	57.6	121.1	175.8	200.9
115°	3.0	56.1	115.2	164.0	184.6
117.5°	4.4	54.7	110.8	152.2	168.4
120°	4.4	51.7	107.8	141.8	155.1
122.5°	4.4	48.7	103.4	132.9	143.3
125°	4.4	47.3	99.0	124.1	132.9
127.5°	4.4	44.3	94.5	116.7	125.6
130°	5.9	41.4	90.1	110.8	118.2
132.5°	5.9	38.4	85.7	107.8	113.7
135°	5.9	36.9	81.2	103.4	109.3
137.5°	5.9	34.0	76.8	99.0	104.9
140°	5.9	31.0	70.9	93.1	99.0
142.5°	5.9	29.5	65.0	87.2	93.1
145°	5.9	26.6	57.6	79.8	87.2
147.5°	7.4	25.1	51.7	73.9	79.8
150°	7.4	22.2	45.8	68.0	73.9
152.5°	7.4	19.2	39.9	60.6	66.5
155°	7.4	16.2	35.5	53.2	60.6
157.5°	7.4	14.8	31.0	44.3	53.2
160°	7.4	13.3	26.6	38.4	45.8
162.5°	7.4	11.8	23.6	32.5	39.9
165°	7.4	10.3	19.2	26.6	32.5
167.5°	8.9	10.3	16.2	20.7	26.6
170°	8.9	10.3	13.3	16.2	20.7
172.5°	8.9	8.9	10.3	11.8	13.3
175°	8.9	8.9	8.9	8.9	7.4
177.5°	8.9	8.9	8.9	7.4	7.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	7.4	7.4	7.4	7.4	7.4

(END OF REPORT)