

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: P566939

Luminaire Tested: **4SNX-87HL-SLW-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566939
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-87HL-SLW-UNV-L935-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

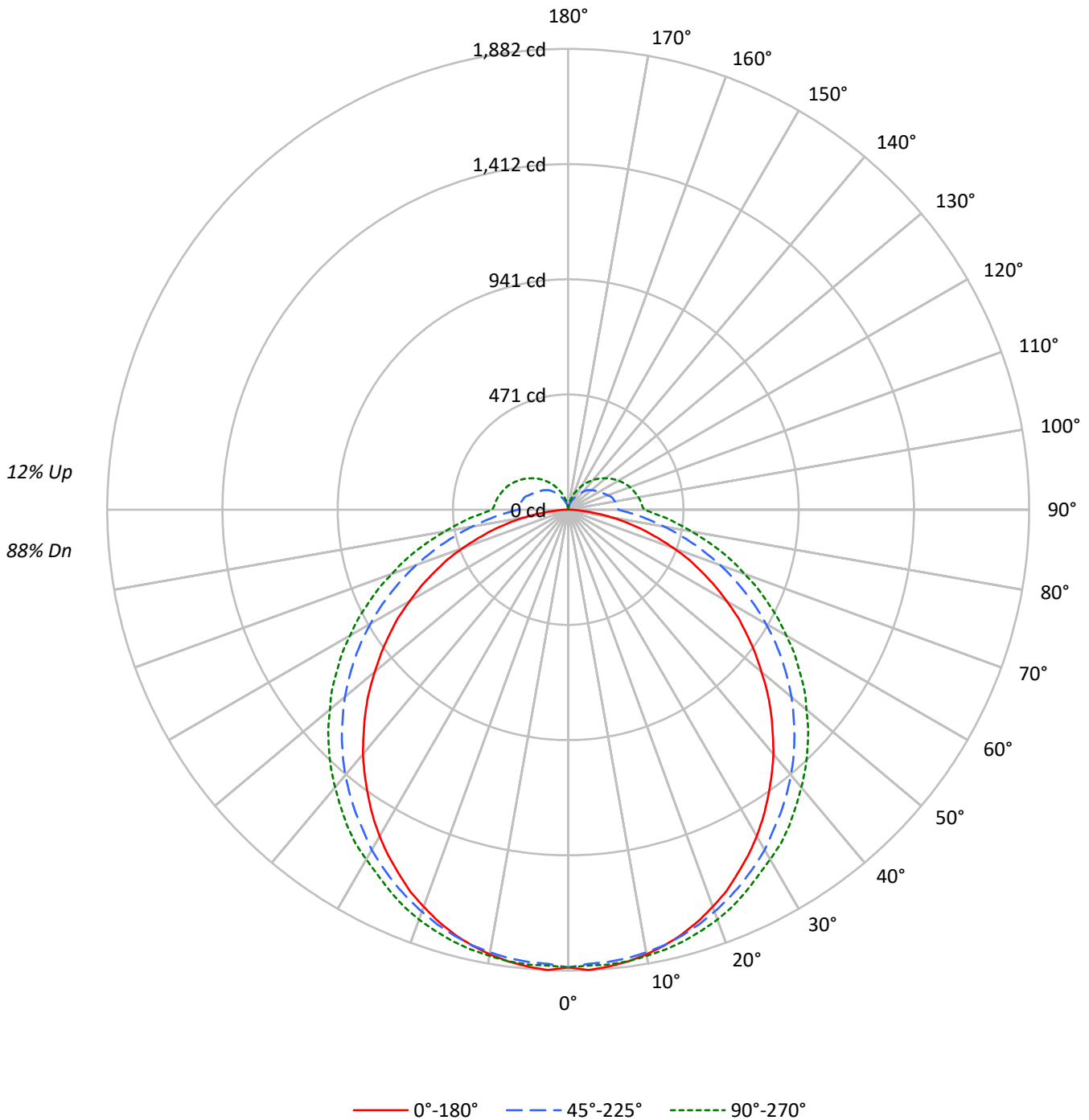
Lumens per Lamp: N/A
Luminaire Lumens: 6729.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 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: P566939

CATALOG NUMBER: 4SNX-87HL-SLW-UNV-L935-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566939

CATALOG NUMBER: 4SNX-87HL-SLW-UNV-L935-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	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°	20119	20119	20119
5°	20209	19606	19576
10°	20078	19218	19108
15°	19896	18801	18667
20°	19611	18345	18207
25°	19275	17887	17682
30°	18908	17427	17199
35°	18448	16912	16783
40°	18000	16441	16273
45°	17460	15920	15789
50°	16835	15365	15237
55°	16234	14717	14684
60°	15542	14014	14049
65°	14697	13213	13372
70°	13622	12308	12593
75°	12097	11269	11878
80°	9972	10235	10977
85°	6898	9313	10388



TEST NUMBER: P566939

CATALOG NUMBER: 4SNX-87HL-SLW-UNV-L935-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	2.6
10°-20°	510.4	7.6
20°-30°	776.5	11.5
30°-40°	944.1	14.0
40°-50°	998.9	14.8
50°-60°	936.3	13.9
60°-70°	770.3	11.4
70°-80°	533.0	7.9
80°-90°	296.4	4.4
90°-100°	195.3	2.9
100°-110°	175.1	2.6
110°-120°	144.9	2.2
120°-130°	112.0	1.7
130°-140°	79.3	1.2
140°-150°	47.8	0.7
150°-160°	23.0	0.3
160°-170°	7.5	0.1
170°-180°	0.9	0.0
0°-30°	1464.3	21.8
0°-40°	2408.5	35.8
0°-60°	4343.6	64.6
0°-90°	5943.2	88.3
90°-120°	515.3	7.7
90°-150°	754.4	11.2
90°-180°	786.0	11.7
0°-180°	6729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1869	1869	1869	1869	1869	
5°	1874	1870	1854	1869	1864	178
15°	1795	1801	1800	1824	1824	506
25°	1639	1662	1681	1718	1719	755
35°	1424	1462	1512	1560	1574	891
45°	1171	1232	1307	1366	1382	902
55°	891	970	1064	1130	1154	797
65°	603	689	796	875	899	598
75°	313	404	523	606	640	333
85°	69	172	290	371	403	80
90°	1	97	205	282	310	5
95°	1	92	199	273	300	1
105°	1	80	187	257	280	1
115°	2	69	158	228	254	2
125°	2	59	135	195	219	2
135°	2	46	113	160	180	2
145°	2	33	78	121	136	1
155°	4	23	48	77	90	2
165°	4	15	26	36	46	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



TEST NUMBER: P566939

CATALOG NUMBER: 4SNX-87HL-SLW-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1869.1	1869.1	1869.1	1869.1	1869.1
2.5°	1881.7	1876.0	1856.4	1869.1	1863.3
5°	1873.7	1870.2	1854.1	1869.1	1864.4
7.5°	1861.0	1859.8	1847.2	1864.4	1859.8
10°	1843.7	1846.0	1835.6	1854.1	1850.6
12.5°	1821.8	1825.3	1820.7	1841.4	1839.1
15°	1795.3	1801.1	1799.9	1824.1	1824.1
17.5°	1763.0	1771.1	1775.7	1803.4	1803.4
20°	1725.0	1737.7	1746.9	1776.9	1781.5
22.5°	1687.0	1702.0	1715.8	1746.9	1753.8
25°	1638.6	1661.6	1681.2	1718.1	1719.3
27.5°	1591.3	1616.7	1643.2	1678.9	1682.4
30°	1539.5	1571.8	1604.0	1638.6	1649.0
32.5°	1484.2	1519.9	1555.6	1601.7	1615.5
35°	1424.3	1462.3	1511.8	1560.2	1574.1
37.5°	1364.3	1407.0	1464.6	1514.1	1526.8
40°	1303.3	1350.5	1415.0	1465.7	1480.7
42.5°	1235.3	1292.9	1362.0	1416.2	1433.5
45°	1170.8	1231.8	1306.7	1365.5	1381.6
47.5°	1102.8	1167.3	1248.0	1310.2	1328.6
50°	1030.2	1103.9	1190.3	1252.6	1269.9
52.5°	962.2	1037.1	1128.1	1192.6	1216.8
55°	890.7	970.2	1063.6	1130.4	1153.5
57.5°	823.9	900.0	1000.2	1067.0	1095.9
60°	747.9	832.0	932.2	1004.8	1027.9
62.5°	676.4	761.7	865.4	940.3	966.8
65°	602.7	689.1	796.3	874.6	898.8
67.5°	533.5	618.8	728.3	805.5	836.6
70°	457.5	547.3	659.1	738.6	765.1
72.5°	382.6	475.9	590.0	675.3	705.2
75°	313.4	404.5	523.2	606.1	639.5
77.5°	246.6	338.8	458.6	543.9	572.7
80°	179.8	276.6	398.7	482.8	510.5
82.5°	118.7	220.1	341.1	425.2	455.2
85°	69.1	171.7	290.4	371.0	403.3
87.5°	30.0	130.2	243.1	322.6	349.2
90°	1.2	96.8	205.1	282.3	310.0
92.5°	1.2	94.5	200.5	276.6	303.1
95°	1.2	92.2	199.4	273.1	299.6
97.5°	1.2	91.0	197.0	270.8	296.1
100°	1.2	87.6	193.6	266.2	291.5
102.5°	1.2	83.0	190.1	261.6	285.8
105°	1.2	79.5	186.7	257.0	280.0
107.5°	1.2	76.1	180.9	251.2	274.3
110°	1.2	72.6	171.7	245.4	268.5



TEST NUMBER: P566939

CATALOG NUMBER: 4SNX-87HL-SLW-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	71.4	164.8	237.4	261.6
115°	2.3	69.1	157.9	228.2	253.5
117.5°	2.3	68.0	152.1	218.9	245.4
120°	2.3	64.5	146.3	210.9	236.2
122.5°	2.3	61.1	140.6	202.8	228.2
125°	2.3	58.8	134.8	194.7	218.9
127.5°	2.3	55.3	130.2	186.7	208.6
130°	2.3	53.0	124.5	177.5	199.4
132.5°	2.3	49.5	118.7	168.2	189.0
135°	2.3	46.1	112.9	160.2	179.8
137.5°	2.3	41.5	106.0	151.0	169.4
140°	2.3	38.0	96.8	141.7	159.0
142.5°	2.3	35.7	87.6	131.4	147.5
145°	2.3	33.4	78.4	121.0	136.0
147.5°	2.3	31.1	70.3	110.6	124.5
150°	2.3	27.7	62.2	101.4	112.9
152.5°	3.5	25.4	55.3	89.9	101.4
155°	3.5	23.0	48.4	77.2	89.9
157.5°	3.5	20.7	41.5	64.5	78.4
160°	3.5	18.4	35.7	53.0	66.8
162.5°	3.5	17.3	31.1	43.8	56.5
165°	3.5	15.0	26.5	35.7	46.1
167.5°	3.5	11.5	21.9	27.7	38.0
170°	3.5	9.2	17.3	19.6	28.8
172.5°	3.5	6.9	12.7	13.8	15.0
175°	3.5	5.8	8.1	8.1	4.6
177.5°	3.5	4.6	4.6	4.6	2.3
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)