

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: P566938

Luminaire Tested: **4SNX-87HL-SLW-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566938
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-L930-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

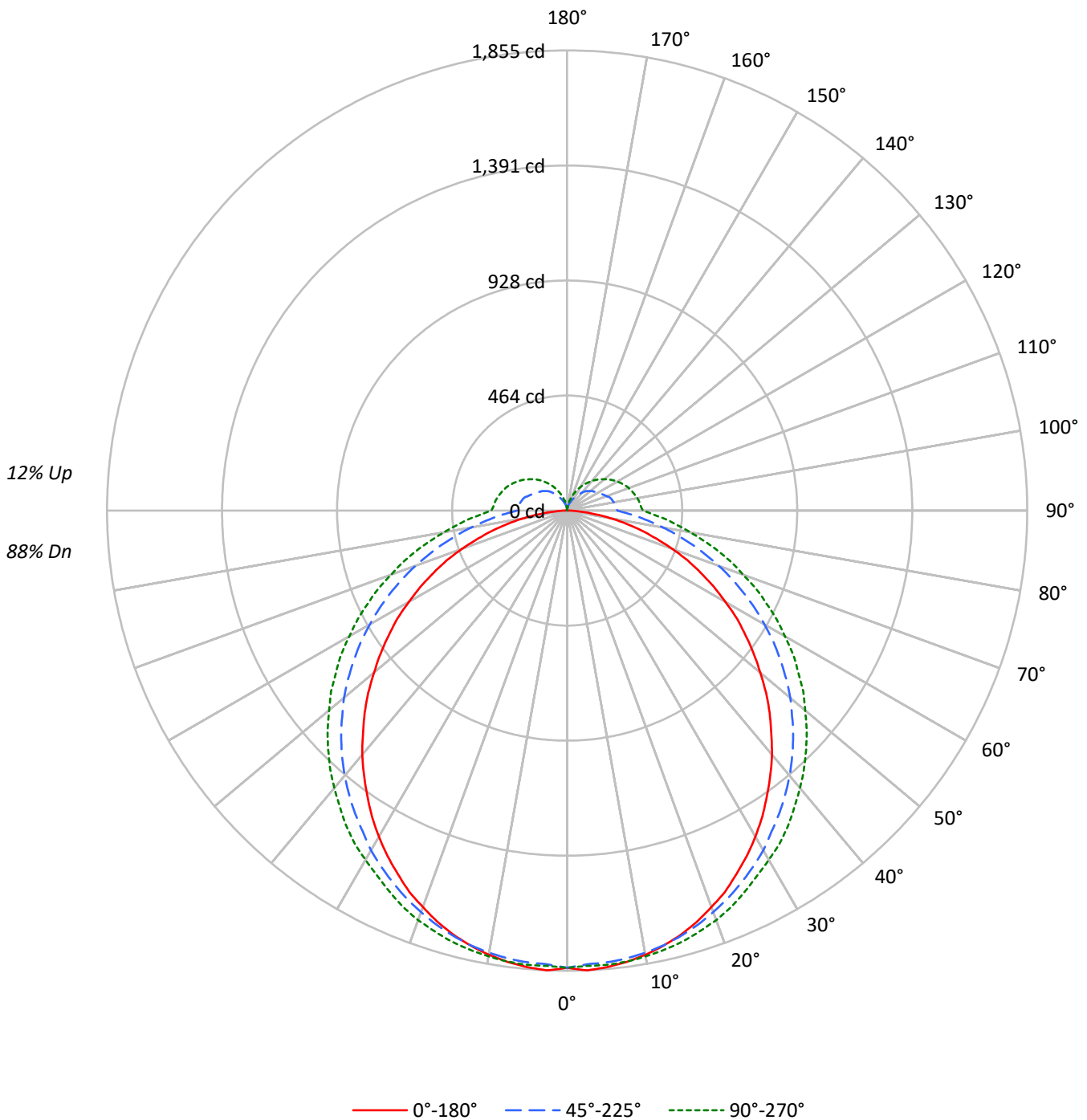
Lumens per Lamp: N/A
Luminaire Lumens: 6635.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

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: P566938

CATALOG NUMBER: 4SNX-87HL-SLW-UNV-L930-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566938

CATALOG NUMBER: 4SNX-87HL-SLW-UNV-L930-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°	19837	19837	19837
5°	19926	19332	19303
10°	19797	18950	18842
15°	19617	18539	18406
20°	19337	18089	17952
25°	19005	17637	17434
30°	18644	17183	16958
35°	18190	16676	16548
40°	17748	16213	16045
45°	17216	15698	15569
50°	16600	15151	15023
55°	16008	14511	14479
60°	15324	13818	13853
65°	14489	13028	13186
70°	13431	12136	12416
75°	11931	11110	11713
80°	9833	10092	10822
85°	6808	9182	10244



TEST NUMBER: P566938

CATALOG NUMBER: 4SNX-87HL-SLW-UNV-L930-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	2.6
10°-20°	503.3	7.6
20°-30°	765.6	11.5
30°-40°	930.9	14.0
40°-50°	984.9	14.8
50°-60°	923.2	13.9
60°-70°	759.5	11.4
70°-80°	525.5	7.9
80°-90°	292.2	4.4
90°-100°	192.5	2.9
100°-110°	172.6	2.6
110°-120°	142.9	2.2
120°-130°	110.5	1.7
130°-140°	78.2	1.2
140°-150°	47.2	0.7
150°-160°	22.7	0.3
160°-170°	7.4	0.1
170°-180°	0.9	0.0
0°-30°	1443.9	21.8
0°-40°	2374.8	35.8
0°-60°	4282.9	64.6
0°-90°	5860.1	88.3
90°-120°	508.0	7.7
90°-150°	743.9	11.2
90°-180°	775.0	11.7
0°-180°	6635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1843	1843	1843	1843	1843	
5°	1848	1844	1828	1843	1838	175
15°	1770	1776	1775	1799	1799	499
25°	1616	1638	1658	1694	1695	745
35°	1404	1442	1491	1538	1552	879
45°	1154	1215	1288	1346	1362	890
55°	878	957	1049	1115	1137	786
65°	594	680	785	862	886	589
75°	309	399	516	598	631	328
85°	68	169	286	366	398	78
90°	1	95	202	278	306	4
95°	1	91	197	269	295	1
105°	1	78	184	253	276	1
115°	2	68	156	225	250	2
125°	2	58	133	192	216	2
135°	2	45	111	158	177	2
145°	2	33	77	119	134	1
155°	3	23	48	76	89	2
165°	3	15	26	35	45	1
175°	3	6	8	8	4	0
180°	2	2	2	2	2	



TEST NUMBER: P566938

CATALOG NUMBER: 4SNX-87HL-SLW-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1842.9	1842.9	1842.9	1842.9	1842.9
2.5°	1855.4	1849.8	1830.4	1842.9	1837.3
5°	1847.5	1844.1	1828.2	1842.9	1838.4
7.5°	1835.0	1833.9	1821.4	1838.4	1833.9
10°	1817.9	1820.2	1810.0	1828.2	1824.8
12.5°	1796.4	1799.8	1795.2	1815.7	1813.4
15°	1770.2	1775.9	1774.8	1798.6	1798.6
17.5°	1738.4	1746.4	1750.9	1778.2	1778.2
20°	1700.9	1713.4	1722.5	1752.0	1756.6
22.5°	1663.4	1678.2	1691.8	1722.5	1729.3
25°	1615.7	1638.4	1657.7	1694.1	1695.2
27.5°	1569.1	1594.1	1620.2	1655.5	1658.9
30°	1518.0	1549.8	1581.6	1615.7	1625.9
32.5°	1463.4	1498.7	1533.9	1579.3	1593.0
35°	1404.4	1441.9	1490.7	1538.4	1552.1
37.5°	1345.3	1387.3	1444.1	1493.0	1505.5
40°	1285.1	1331.6	1395.3	1445.3	1460.0
42.5°	1218.0	1274.8	1343.0	1396.4	1413.5
45°	1154.4	1214.6	1288.5	1346.4	1362.3
47.5°	1087.4	1151.0	1230.5	1291.9	1310.1
50°	1015.8	1088.5	1173.7	1235.1	1252.1
52.5°	948.7	1022.6	1112.4	1176.0	1199.8
55°	878.3	956.7	1048.7	1114.6	1137.4
57.5°	812.4	887.4	986.2	1052.1	1080.5
60°	737.4	820.3	919.2	990.8	1013.5
62.5°	667.0	751.0	853.3	927.2	953.3
65°	594.2	679.5	785.1	862.4	886.3
67.5°	526.1	610.1	718.1	794.2	824.9
70°	451.1	539.7	649.9	728.3	754.4
72.5°	377.2	469.3	581.7	665.8	695.4
75°	309.1	398.8	515.8	597.7	630.6
77.5°	243.2	334.0	452.2	536.3	564.7
80°	177.3	272.7	393.1	476.1	503.3
82.5°	117.0	217.0	336.3	419.3	448.8
85°	68.2	169.3	286.3	365.9	397.7
87.5°	29.5	128.4	239.7	318.1	344.3
90°	1.1	95.4	202.2	278.4	305.6
92.5°	1.1	93.2	197.7	272.7	298.8
95°	1.1	90.9	196.6	269.3	295.4
97.5°	1.1	89.8	194.3	267.0	292.0
100°	1.1	86.4	190.9	262.5	287.5
102.5°	1.1	81.8	187.5	257.9	281.8
105°	1.1	78.4	184.1	253.4	276.1
107.5°	1.1	75.0	178.4	247.7	270.4
110°	1.1	71.6	169.3	242.0	264.7



TEST NUMBER: P566938

CATALOG NUMBER: 4SNX-87HL-SLW-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	70.4	162.5	234.1	257.9
115°	2.3	68.2	155.7	225.0	250.0
117.5°	2.3	67.0	150.0	215.9	242.0
120°	2.3	63.6	144.3	207.9	232.9
122.5°	2.3	60.2	138.6	200.0	225.0
125°	2.3	57.9	132.9	192.0	215.9
127.5°	2.3	54.5	128.4	184.1	205.7
130°	2.3	52.3	122.7	175.0	196.6
132.5°	2.3	48.9	117.0	165.9	186.3
135°	2.3	45.4	111.3	157.9	177.3
137.5°	2.3	40.9	104.5	148.8	167.0
140°	2.3	37.5	95.4	139.8	156.8
142.5°	2.3	35.2	86.4	129.5	145.4
145°	2.3	33.0	77.3	119.3	134.1
147.5°	2.3	30.7	69.3	109.1	122.7
150°	2.3	27.3	61.4	100.0	111.3
152.5°	3.4	25.0	54.5	88.6	100.0
155°	3.4	22.7	47.7	76.1	88.6
157.5°	3.4	20.5	40.9	63.6	77.3
160°	3.4	18.2	35.2	52.3	65.9
162.5°	3.4	17.0	30.7	43.2	55.7
165°	3.4	14.8	26.1	35.2	45.4
167.5°	3.4	11.4	21.6	27.3	37.5
170°	3.4	9.1	17.0	19.3	28.4
172.5°	3.4	6.8	12.5	13.6	14.8
175°	3.4	5.7	8.0	8.0	4.5
177.5°	3.4	4.5	4.5	4.5	2.3
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)