

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: P566933

Luminaire Tested: **4SNX-87HL-LW-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566933
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-LW-UNV-L950-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

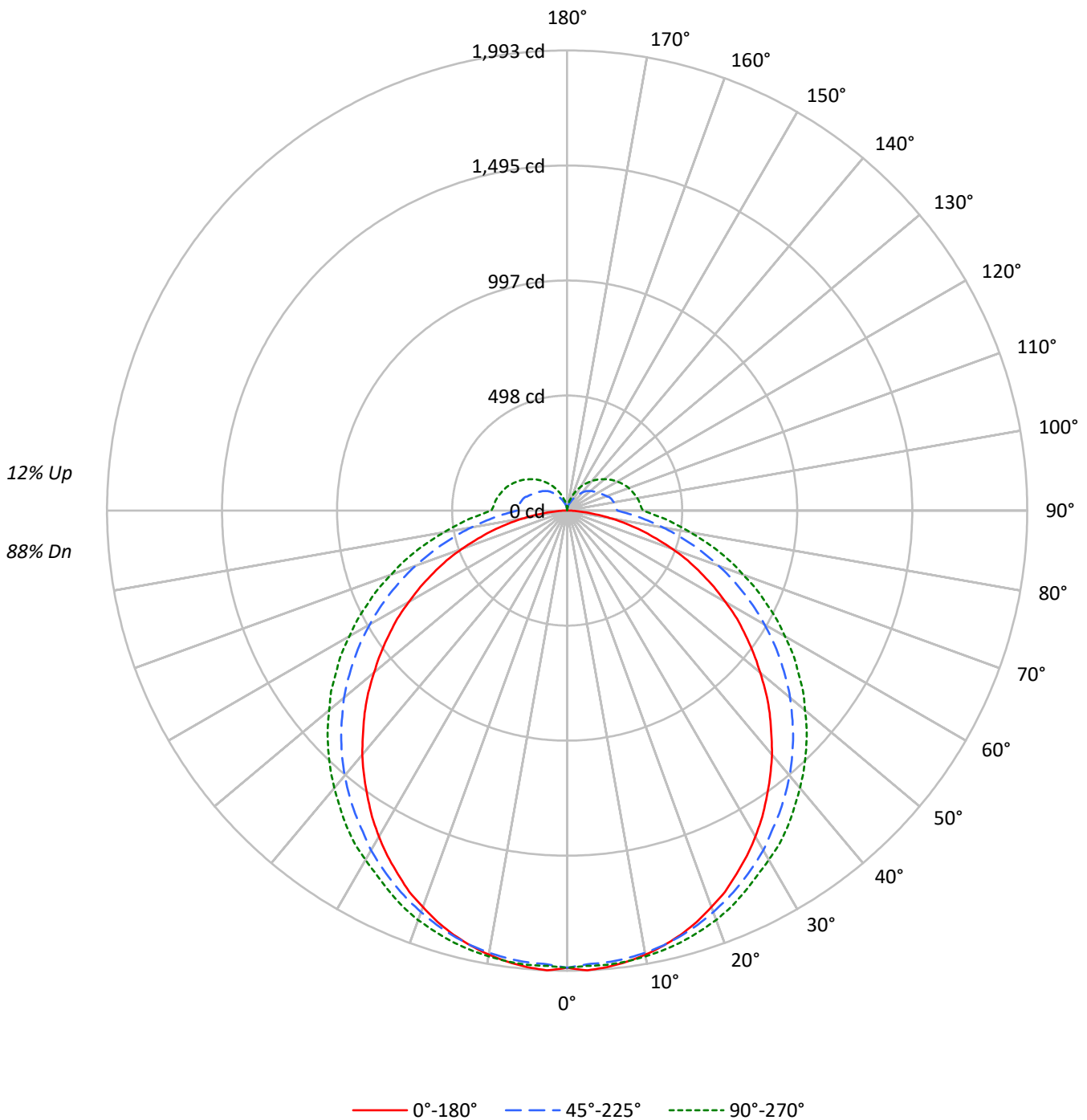
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7128.0 lumens
Efficiency: N/A
Efficacy: 114.6 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: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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

TEST NUMBER: P566933
CATALOG NUMBER: 4SNX-87HL-LW-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566933

CATALOG NUMBER: 4SNX-87HL-LW-UNV-L950-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°	21311	21311	21311
5°	21368	20330	20164
10°	21191	19529	19173
15°	20959	18732	18269
20°	20619	17929	17395
25°	20223	17146	16500
30°	19793	16381	15676
35°	19263	15580	14937
40°	18743	14829	14133
45°	18124	14039	13368
50°	17410	13222	12552
55°	16713	12327	11747
60°	15906	11383	10878
65°	14926	10358	9980
70°	13685	9248	9008
75°	11949	8033	8078
80°	9546	6816	7010
85°	6124	5649	6121



TEST NUMBER: P566933

CATALOG NUMBER: 4SNX-87HL-LW-UNV-L950-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.0	2.6
10°-20°	540.7	7.6
20°-30°	822.5	11.5
30°-40°	1000.1	14.0
40°-50°	1058.1	14.8
50°-60°	991.8	13.9
60°-70°	815.9	11.4
70°-80°	564.6	7.9
80°-90°	313.9	4.4
90°-100°	206.8	2.9
100°-110°	185.5	2.6
110°-120°	153.5	2.2
120°-130°	118.7	1.7
130°-140°	84.0	1.2
140°-150°	50.7	0.7
150°-160°	24.3	0.3
160°-170°	8.0	0.1
170°-180°	1.0	0.0
0°-30°	1551.2	21.8
0°-40°	2551.3	35.8
0°-60°	4601.2	64.6
0°-90°	6295.6	88.3
90°-120°	545.8	7.7
90°-150°	799.1	11.2
90°-180°	832.0	11.7
0°-180°	7128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1980	1980	1980	1980	1980	
5°	1985	1981	1964	1980	1975	188
15°	1902	1908	1907	1932	1932	536
25°	1736	1760	1781	1820	1821	800
35°	1509	1549	1602	1653	1667	944
45°	1240	1305	1384	1446	1464	956
55°	944	1028	1127	1198	1222	845
65°	638	730	844	926	952	633
75°	332	428	554	642	678	352
85°	73	182	308	393	427	84
90°	1	102	217	299	328	5
95°	1	98	211	289	317	1
105°	1	84	198	272	297	1
115°	2	73	167	242	268	2
125°	2	62	143	206	232	2
135°	2	49	120	170	190	2
145°	2	35	83	128	144	2
155°	4	24	51	82	95	2
165°	4	16	28	38	49	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



TEST NUMBER: P566933

CATALOG NUMBER: 4SNX-87HL-LW-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1979.9	1979.9	1979.9	1979.9	1979.9
2.5°	1993.3	1987.2	1966.5	1979.9	1973.8
5°	1984.8	1981.1	1964.0	1979.9	1975.0
7.5°	1971.3	1970.1	1956.7	1975.0	1970.1
10°	1953.0	1955.5	1944.5	1964.0	1960.4
12.5°	1929.8	1933.5	1928.6	1950.6	1948.1
15°	1901.8	1907.9	1906.6	1932.3	1932.3
17.5°	1867.6	1876.1	1881.0	1910.3	1910.3
20°	1827.3	1840.7	1850.5	1882.2	1887.1
22.5°	1787.0	1802.9	1817.5	1850.5	1857.8
25°	1735.8	1760.2	1780.9	1820.0	1821.2
27.5°	1685.7	1712.6	1740.6	1778.5	1782.1
30°	1630.8	1665.0	1699.1	1735.8	1746.7
32.5°	1572.2	1610.0	1647.9	1696.7	1711.3
35°	1508.7	1549.0	1601.5	1652.8	1667.4
37.5°	1445.2	1490.4	1551.4	1603.9	1617.4
40°	1380.5	1430.6	1498.9	1552.7	1568.5
42.5°	1308.5	1369.6	1442.8	1500.2	1518.5
45°	1240.2	1304.9	1384.2	1446.5	1463.6
47.5°	1168.2	1236.5	1322.0	1387.9	1407.4
50°	1091.3	1169.4	1260.9	1326.8	1345.1
52.5°	1019.2	1098.6	1195.0	1263.4	1289.0
55°	943.6	1027.8	1126.7	1197.5	1221.9
57.5°	872.8	953.3	1059.5	1130.3	1160.8
60°	792.2	881.3	987.5	1064.4	1088.8
62.5°	716.5	806.8	916.7	996.0	1024.1
65°	638.4	729.9	843.5	926.5	952.1
67.5°	565.2	655.5	771.4	853.2	886.2
70°	484.6	579.8	698.2	782.4	810.5
72.5°	405.3	504.1	625.0	715.3	747.0
75°	332.0	428.4	554.2	642.1	677.5
77.5°	261.2	358.9	485.8	576.1	606.7
80°	190.4	293.0	422.3	511.4	540.7
82.5°	125.7	233.1	361.3	450.4	482.2
85°	73.2	181.9	307.6	393.0	427.2
87.5°	31.7	137.9	257.6	341.8	369.9
90°	1.2	102.5	217.3	299.1	328.4
92.5°	1.2	100.1	212.4	293.0	321.0
95°	1.2	97.7	211.2	289.3	317.4
97.5°	1.2	96.4	208.7	286.9	313.7
100°	1.2	92.8	205.1	282.0	308.8
102.5°	1.2	87.9	201.4	277.1	302.7
105°	1.2	84.2	197.7	272.2	296.6
107.5°	1.2	80.6	191.6	266.1	290.5
110°	1.2	76.9	181.9	260.0	284.4



TEST NUMBER: P566933

CATALOG NUMBER: 4SNX-87HL-LW-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	75.7	174.6	251.5	277.1
115°	2.4	73.2	167.2	241.7	268.5
117.5°	2.4	72.0	161.1	231.9	260.0
120°	2.4	68.4	155.0	223.4	250.2
122.5°	2.4	64.7	148.9	214.8	241.7
125°	2.4	62.3	142.8	206.3	231.9
127.5°	2.4	58.6	137.9	197.7	220.9
130°	2.4	56.1	131.8	188.0	211.2
132.5°	2.4	52.5	125.7	178.2	200.2
135°	2.4	48.8	119.6	169.7	190.4
137.5°	2.4	43.9	112.3	159.9	179.4
140°	2.4	40.3	102.5	150.1	168.4
142.5°	2.4	37.8	92.8	139.2	156.2
145°	2.4	35.4	83.0	128.2	144.0
147.5°	2.4	33.0	74.5	117.2	131.8
150°	2.4	29.3	65.9	107.4	119.6
152.5°	3.7	26.9	58.6	95.2	107.4
155°	3.7	24.4	51.3	81.8	95.2
157.5°	3.7	22.0	43.9	68.4	83.0
160°	3.7	19.5	37.8	56.1	70.8
162.5°	3.7	18.3	33.0	46.4	59.8
165°	3.7	15.9	28.1	37.8	48.8
167.5°	3.7	12.2	23.2	29.3	40.3
170°	3.7	9.8	18.3	20.8	30.5
172.5°	3.7	7.3	13.4	14.6	15.9
175°	3.7	6.1	8.5	8.5	4.9
177.5°	3.7	4.9	4.9	4.9	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)