

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: P566909

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566909
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-FDL-UNV-L950-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

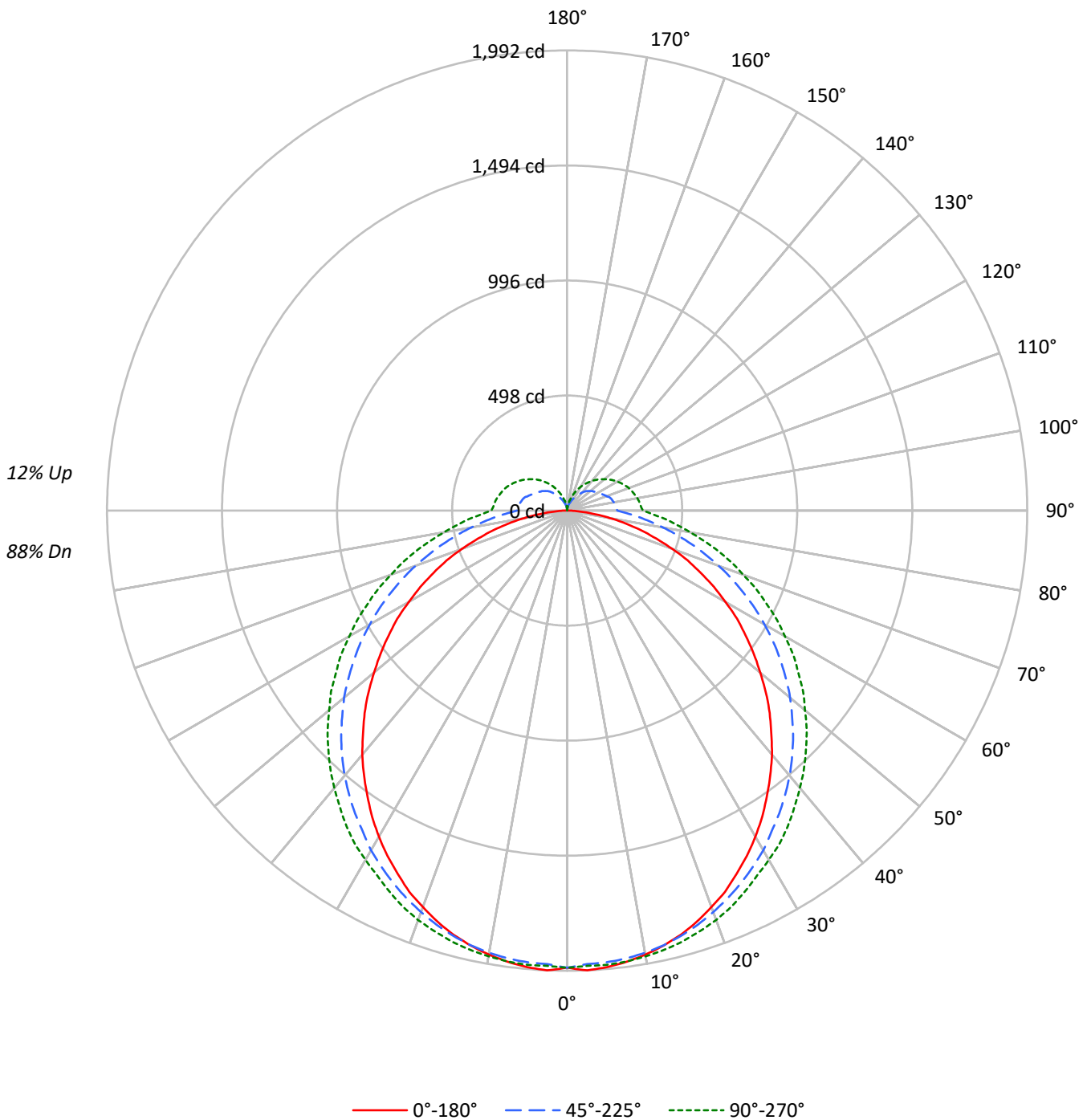
Lumens per Lamp: N/A
Luminaire Lumens: 7124.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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: P566909

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

Luminous Intensity Polar Plot





TEST NUMBER: P566909

CATALOG NUMBER: 4SNX-87HL-FDL-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	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°	21300	21300	21300
5°	21414	20979	21022
10°	21295	20782	20804
15°	21122	20546	20601
20°	20841	20262	20369
25°	20504	19973	20059
30°	20137	19684	19794
35°	19671	19337	19610
40°	19220	19049	19324
45°	18674	18715	19085
50°	18039	18363	18782
55°	17437	17925	18511
60°	16744	17459	18179
65°	15895	16926	17855
70°	14818	16340	17487
75°	13283	15699	17361
80°	11138	15300	17221
85°	8078	15615	18153



TEST NUMBER: P566909

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	2.6
10°-20°	540.4	7.6
20°-30°	822.1	11.5
30°-40°	999.5	14.0
40°-50°	1057.5	14.8
50°-60°	991.3	13.9
60°-70°	815.5	11.4
70°-80°	564.2	7.9
80°-90°	313.8	4.4
90°-100°	206.7	2.9
100°-110°	185.3	2.6
110°-120°	153.4	2.2
120°-130°	118.6	1.7
130°-140°	84.0	1.2
140°-150°	50.6	0.7
150°-160°	24.3	0.3
160°-170°	8.0	0.1
170°-180°	1.0	0.0
0°-30°	1550.3	21.8
0°-40°	2549.8	35.8
0°-60°	4598.6	64.6
0°-90°	6292.1	88.3
90°-120°	545.5	7.7
90°-150°	798.7	11.2
90°-180°	832.0	11.7
0°-180°	7124.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1979	1979	1979	1979	1979	
5°	1984	1980	1963	1979	1974	188
15°	1901	1907	1906	1931	1931	536
25°	1735	1759	1780	1819	1820	800
35°	1508	1548	1601	1652	1666	944
45°	1240	1304	1383	1446	1463	955
55°	943	1027	1126	1197	1221	844
65°	638	730	843	926	952	633
75°	332	428	554	642	677	352
85°	73	182	307	393	427	84
90°	1	102	217	299	328	5
95°	1	98	211	289	317	1
105°	1	84	198	272	296	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: P566909

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1978.8	1978.8	1978.8	1978.8	1978.8
2.5°	1992.2	1986.1	1965.4	1978.8	1972.7
5°	1983.7	1980.0	1962.9	1978.8	1973.9
7.5°	1970.2	1969.0	1955.6	1973.9	1969.0
10°	1951.9	1954.4	1943.4	1962.9	1959.3
12.5°	1928.8	1932.4	1927.5	1949.5	1947.1
15°	1900.7	1906.8	1905.6	1931.2	1931.2
17.5°	1866.5	1875.1	1880.0	1909.2	1909.2
20°	1826.3	1839.7	1849.5	1881.2	1886.1
22.5°	1786.0	1801.9	1816.5	1849.5	1856.8
25°	1734.8	1759.2	1779.9	1819.0	1820.2
27.5°	1684.8	1711.6	1739.7	1777.5	1781.1
30°	1629.9	1664.0	1698.2	1734.8	1745.8
32.5°	1571.3	1609.1	1646.9	1695.7	1710.4
35°	1507.9	1548.1	1600.6	1651.8	1666.5
37.5°	1444.4	1489.6	1550.6	1603.0	1616.4
40°	1379.8	1429.8	1498.1	1551.8	1567.6
42.5°	1307.8	1368.8	1442.0	1499.3	1517.6
45°	1239.5	1304.1	1383.4	1445.7	1462.7
47.5°	1167.5	1235.8	1321.2	1387.1	1406.6
50°	1090.6	1168.7	1260.2	1326.1	1344.4
52.5°	1018.7	1098.0	1194.3	1262.7	1288.3
55°	943.0	1027.2	1126.0	1196.8	1221.2
57.5°	872.3	952.8	1058.9	1129.7	1160.2
60°	791.8	880.8	986.9	1063.8	1088.2
62.5°	716.1	806.4	916.2	995.5	1023.5
65°	638.0	729.5	843.0	925.9	951.6
67.5°	564.8	655.1	771.0	852.8	885.7
70°	484.3	579.5	697.8	782.0	810.1
72.5°	405.0	503.8	624.6	714.9	746.6
75°	331.8	428.2	553.9	641.7	677.1
77.5°	261.1	358.7	485.5	575.8	606.3
80°	190.3	292.8	422.1	511.2	540.4
82.5°	125.7	233.0	361.1	450.2	481.9
85°	73.2	181.8	307.4	392.8	427.0
87.5°	31.7	137.9	257.4	341.6	369.6
90°	1.2	102.5	217.2	298.9	328.2
92.5°	1.2	100.0	212.3	292.8	320.8
95°	1.2	97.6	211.1	289.1	317.2
97.5°	1.2	96.4	208.6	286.7	313.5
100°	1.2	92.7	205.0	281.8	308.6
102.5°	1.2	87.8	201.3	276.9	302.5
105°	1.2	84.2	197.6	272.1	296.4
107.5°	1.2	80.5	191.5	266.0	290.3
110°	1.2	76.9	181.8	259.9	284.3



TEST NUMBER: P566909

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	75.6	174.5	251.3	276.9
115°	2.4	73.2	167.1	241.6	268.4
117.5°	2.4	72.0	161.0	231.8	259.9
120°	2.4	68.3	154.9	223.3	250.1
122.5°	2.4	64.7	148.8	214.7	241.6
125°	2.4	62.2	142.7	206.2	231.8
127.5°	2.4	58.6	137.9	197.6	220.8
130°	2.4	56.1	131.8	187.9	211.1
132.5°	2.4	52.5	125.7	178.1	200.1
135°	2.4	48.8	119.6	169.6	190.3
137.5°	2.4	43.9	112.2	159.8	179.3
140°	2.4	40.3	102.5	150.1	168.4
142.5°	2.4	37.8	92.7	139.1	156.2
145°	2.4	35.4	83.0	128.1	144.0
147.5°	2.4	32.9	74.4	117.1	131.8
150°	2.4	29.3	65.9	107.4	119.6
152.5°	3.7	26.8	58.6	95.2	107.4
155°	3.7	24.4	51.2	81.7	95.2
157.5°	3.7	22.0	43.9	68.3	83.0
160°	3.7	19.5	37.8	56.1	70.8
162.5°	3.7	18.3	32.9	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	20.7	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)