

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: P566987

Luminaire Tested: **4SNX-90HL-SLW-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566987
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-90HL-SLW-UNV-L935-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

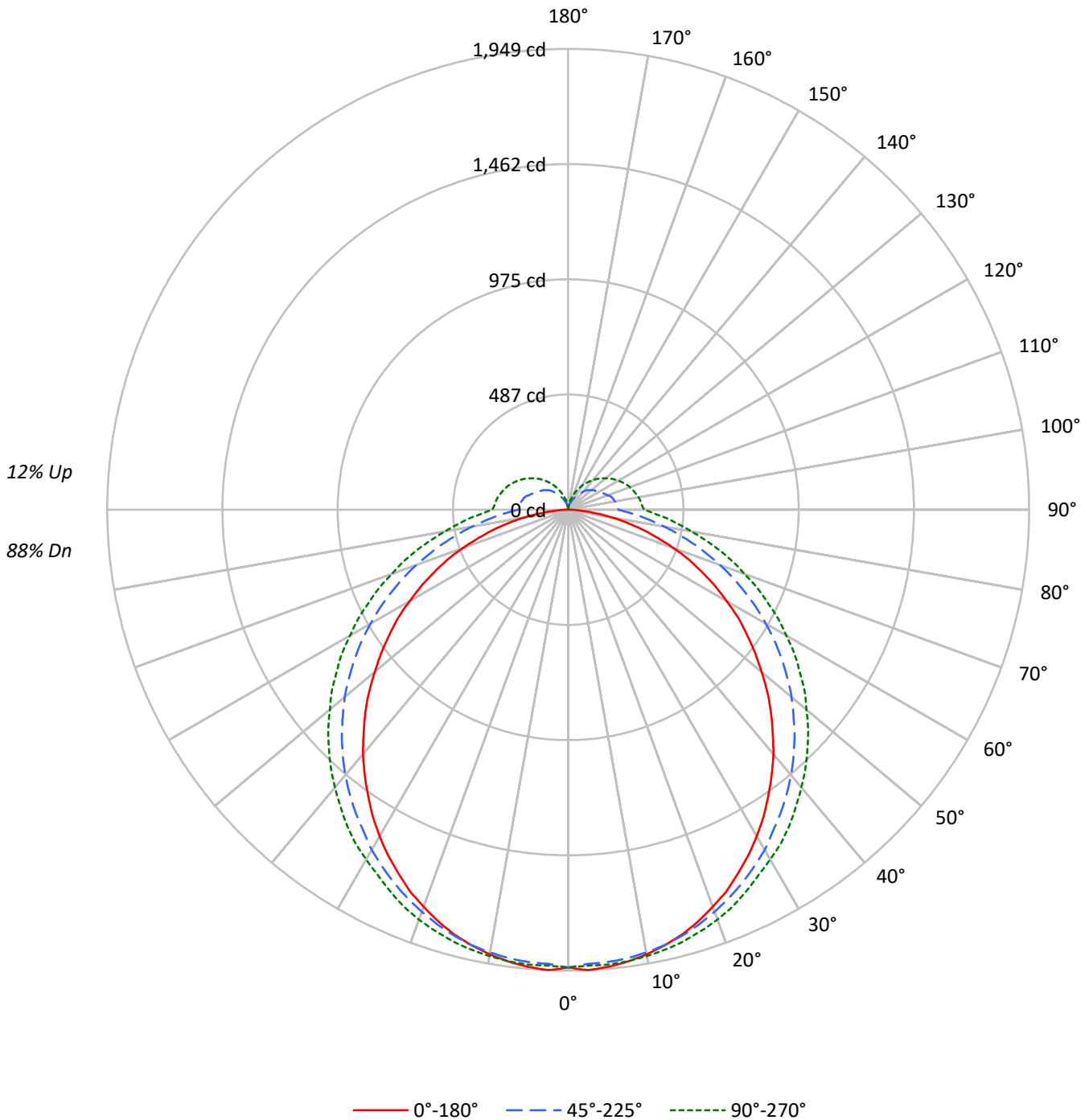
Lumens per Lamp: N/A
Luminaire Lumens: 6970.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 64.4
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	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°	20839	20839	20839
5°	20932	20308	20278
10°	20797	19907	19793
15°	20608	19475	19335
20°	20314	19002	18859
25°	19965	18527	18315
30°	19585	18051	17814
35°	19108	17518	17383
40°	18643	17031	16856
45°	18085	16490	16355
50°	17438	15916	15781
55°	16815	15244	15210
60°	16097	14516	14552
65°	15221	13686	13851
70°	14110	12749	13043
75°	12533	11672	12304
80°	10327	10602	11370
85°	7148	9647	10762



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	2.6
10°-20°	528.7	7.6
20°-30°	804.3	11.5
30°-40°	977.9	14.0
40°-50°	1034.6	14.8
50°-60°	969.8	13.9
60°-70°	797.8	11.4
70°-80°	552.0	7.9
80°-90°	307.0	4.4
90°-100°	202.2	2.9
100°-110°	181.3	2.6
110°-120°	150.1	2.2
120°-130°	116.0	1.7
130°-140°	82.1	1.2
140°-150°	49.6	0.7
150°-160°	23.8	0.3
160°-170°	7.8	0.1
170°-180°	1.0	0.0
0°-30°	1516.8	21.8
0°-40°	2494.7	35.8
0°-60°	4499.2	64.6
0°-90°	6156.0	88.3
90°-120°	533.7	7.7
90°-150°	781.4	11.2
90°-180°	814.0	11.7
0°-180°	6970.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1936	1936	1936	1936	1936	
5°	1941	1937	1920	1936	1931	184
15°	1860	1866	1864	1889	1889	524
25°	1697	1721	1741	1780	1781	782
35°	1475	1515	1566	1616	1630	923
45°	1213	1276	1354	1414	1431	935
55°	923	1005	1102	1171	1195	826
65°	624	714	825	906	931	619
75°	325	419	542	628	662	344
85°	72	178	301	384	418	82
90°	1	100	212	292	321	5
95°	1	96	206	283	310	1
105°	1	82	193	266	290	1
115°	2	72	164	236	263	2
125°	2	61	140	202	227	2
135°	2	48	117	166	186	2
145°	2	35	81	125	141	2
155°	4	24	50	80	93	2
165°	4	16	28	37	48	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1936.0	1936.0	1936.0	1936.0	1936.0
2.5°	1949.1	1943.2	1922.9	1936.0	1930.0
5°	1940.8	1937.2	1920.5	1936.0	1931.2
7.5°	1927.6	1926.4	1913.3	1931.2	1926.4
10°	1909.7	1912.1	1901.4	1920.5	1916.9
12.5°	1887.1	1890.6	1885.9	1907.4	1905.0
15°	1859.6	1865.6	1864.4	1889.4	1889.4
17.5°	1826.2	1834.5	1839.3	1868.0	1868.0
20°	1786.8	1799.9	1809.5	1840.5	1845.3
22.5°	1747.4	1762.9	1777.2	1809.5	1816.6
25°	1697.3	1721.2	1741.4	1779.6	1780.8
27.5°	1648.3	1674.6	1702.1	1739.1	1742.6
30°	1594.6	1628.1	1661.5	1697.3	1708.0
32.5°	1537.3	1574.3	1611.3	1659.1	1673.4
35°	1475.3	1514.7	1566.0	1616.1	1630.4
37.5°	1413.2	1457.4	1517.0	1568.4	1581.5
40°	1349.9	1398.9	1465.7	1518.2	1533.8
42.5°	1279.5	1339.2	1410.8	1466.9	1484.8
45°	1212.7	1275.9	1353.5	1414.4	1431.1
47.5°	1142.3	1209.1	1292.7	1357.1	1376.2
50°	1067.1	1143.5	1233.0	1297.4	1315.3
52.5°	996.6	1074.2	1168.5	1235.4	1260.4
55°	922.6	1005.0	1101.7	1170.9	1194.8
57.5°	853.4	932.2	1036.0	1105.3	1135.1
60°	774.6	861.8	965.6	1040.8	1064.7
62.5°	700.6	789.0	896.4	974.0	1001.4
65°	624.2	713.8	824.8	905.9	931.0
67.5°	552.6	641.0	754.3	834.3	866.5
70°	473.9	567.0	682.7	765.1	792.5
72.5°	396.3	493.0	611.1	699.4	730.5
75°	324.7	418.9	541.9	627.8	662.4
77.5°	255.4	350.9	475.0	563.4	593.2
80°	186.2	286.5	413.0	500.1	528.8
82.5°	122.9	228.0	353.3	440.4	471.5
85°	71.6	177.8	300.8	384.3	417.8
87.5°	31.0	134.9	251.8	334.2	361.7
90°	1.2	100.3	212.5	292.4	321.1
92.5°	1.2	97.9	207.7	286.5	313.9
95°	1.2	95.5	206.5	282.9	310.3
97.5°	1.2	94.3	204.1	280.5	306.8
100°	1.2	90.7	200.5	275.7	302.0
102.5°	1.2	85.9	196.9	270.9	296.0
105°	1.2	82.4	193.4	266.2	290.0
107.5°	1.2	78.8	187.4	260.2	284.1
110°	1.2	75.2	177.8	254.2	278.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	74.0	170.7	245.9	270.9
115°	2.4	71.6	163.5	236.3	262.6
117.5°	2.4	70.4	157.6	226.8	254.2
120°	2.4	66.8	151.6	218.4	244.7
122.5°	2.4	63.3	145.6	210.1	236.3
125°	2.4	60.9	139.6	201.7	226.8
127.5°	2.4	57.3	134.9	193.4	216.0
130°	2.4	54.9	128.9	183.8	206.5
132.5°	2.4	51.3	122.9	174.3	195.7
135°	2.4	47.7	117.0	165.9	186.2
137.5°	2.4	43.0	109.8	156.4	175.5
140°	2.4	39.4	100.3	146.8	164.7
142.5°	2.4	37.0	90.7	136.1	152.8
145°	2.4	34.6	81.2	125.3	140.8
147.5°	2.4	32.2	72.8	114.6	128.9
150°	2.4	28.6	64.5	105.0	117.0
152.5°	3.6	26.3	57.3	93.1	105.0
155°	3.6	23.9	50.1	80.0	93.1
157.5°	3.6	21.5	43.0	66.8	81.2
160°	3.6	19.1	37.0	54.9	69.2
162.5°	3.6	17.9	32.2	45.4	58.5
165°	3.6	15.5	27.5	37.0	47.7
167.5°	3.6	11.9	22.7	28.6	39.4
170°	3.6	9.5	17.9	20.3	29.8
172.5°	3.6	7.2	13.1	14.3	15.5
175°	3.6	6.0	8.4	8.4	4.8
177.5°	3.6	4.8	4.8	4.8	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)