

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: P566940

Luminaire Tested: **4SNX-87HL-SLW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566940
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-L940-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

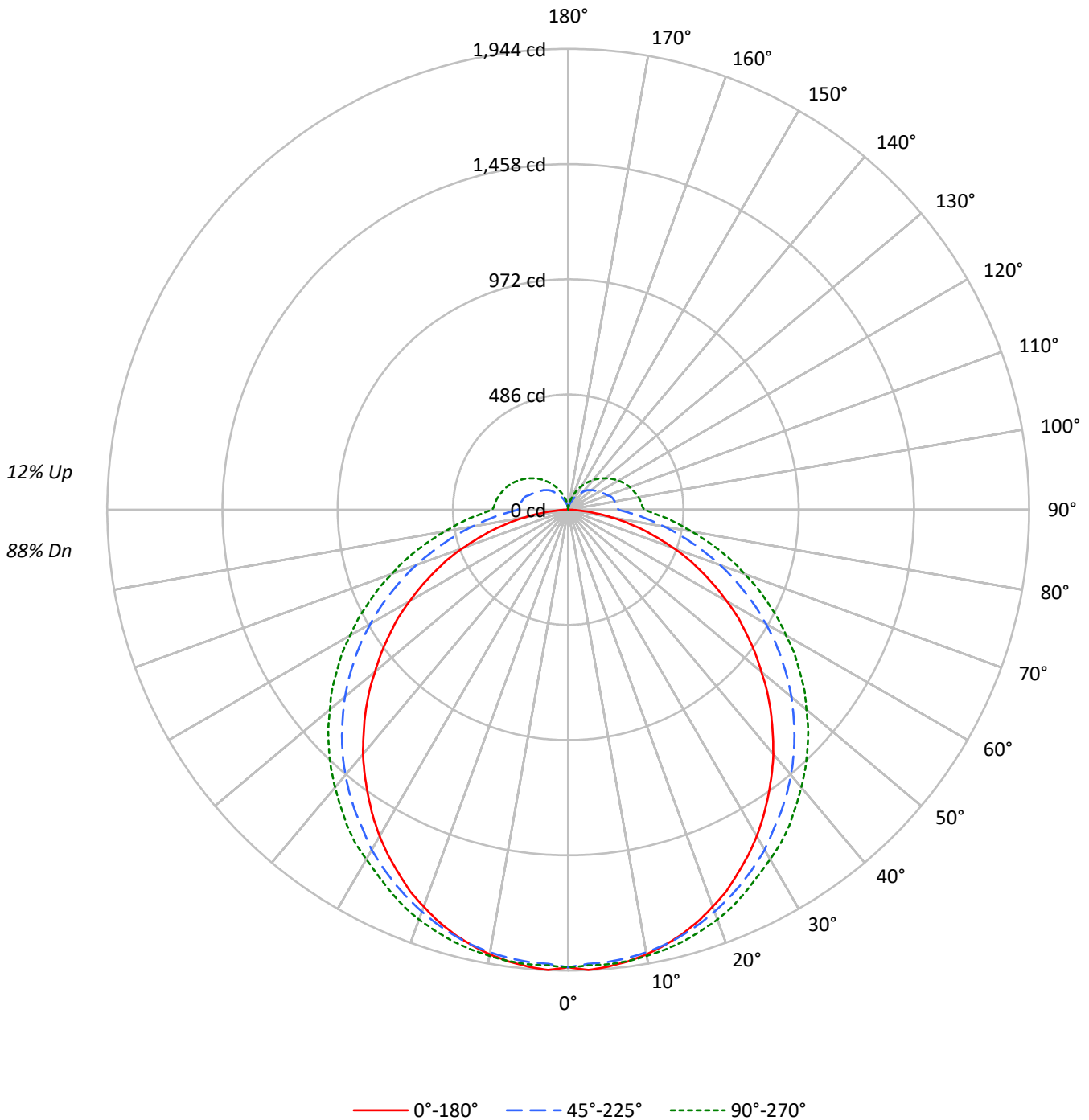
Lumens per Lamp: N/A
Luminaire Lumens: 6950.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

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

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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°	20779	20779	20779
5°	20872	20250	20220
10°	20738	19849	19736
15°	20549	19418	19280
20°	20256	18948	18804
25°	19907	18474	18262
30°	19530	17999	17763
35°	19053	17468	17334
40°	18591	16982	16808
45°	18033	16443	16308
50°	17387	15870	15737
55°	16768	15200	15167
60°	16051	14474	14510
65°	15179	13647	13811
70°	14068	12713	13007
75°	12495	11637	12268
80°	10299	10572	11336
85°	7128	9618	10731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	2.6
10°-20°	527.2	7.6
20°-30°	802.0	11.5
30°-40°	975.1	14.0
40°-50°	1031.7	14.8
50°-60°	967.0	13.9
60°-70°	795.6	11.4
70°-80°	550.5	7.9
80°-90°	306.1	4.4
90°-100°	201.7	2.9
100°-110°	180.8	2.6
110°-120°	149.7	2.2
120°-130°	115.7	1.7
130°-140°	81.9	1.2
140°-150°	49.4	0.7
150°-160°	23.7	0.3
160°-170°	7.8	0.1
170°-180°	0.9	0.0
0°-30°	1512.4	21.8
0°-40°	2487.6	35.8
0°-60°	4486.3	64.6
0°-90°	6138.4	88.3
90°-120°	532.2	7.7
90°-150°	779.2	11.2
90°-180°	812.0	11.7
0°-180°	6950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1930	1930	1930	1930	1930	
5°	1935	1932	1915	1930	1926	184
15°	1854	1860	1859	1884	1884	523
25°	1692	1716	1736	1774	1776	780
35°	1471	1510	1562	1612	1626	921
45°	1209	1272	1350	1410	1427	932
55°	920	1002	1098	1168	1191	824
65°	622	712	822	903	928	617
75°	324	418	540	626	660	343
85°	71	177	300	383	417	82
90°	1	100	212	292	320	5
95°	1	95	206	282	309	1
105°	1	82	193	265	289	1
115°	2	71	163	236	262	2
125°	2	61	139	201	226	2
135°	2	48	117	165	186	2
145°	2	34	81	125	140	2
155°	4	24	50	80	93	2
165°	4	16	27	37	48	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



TEST NUMBER: P566940

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1930.4	1930.4	1930.4	1930.4	1930.4
2.5°	1943.5	1937.6	1917.3	1930.4	1924.5
5°	1935.2	1931.6	1915.0	1930.4	1925.7
7.5°	1922.1	1920.9	1907.8	1925.7	1920.9
10°	1904.3	1906.6	1895.9	1915.0	1911.4
12.5°	1881.6	1885.2	1880.5	1901.9	1899.5
15°	1854.3	1860.2	1859.0	1884.0	1884.0
17.5°	1820.9	1829.3	1834.0	1862.6	1862.6
20°	1781.7	1794.8	1804.3	1835.2	1840.0
22.5°	1742.4	1757.9	1772.1	1804.3	1811.4
25°	1692.4	1716.2	1736.4	1774.5	1775.7
27.5°	1643.6	1669.8	1697.2	1734.1	1737.6
30°	1590.1	1623.4	1656.7	1692.4	1703.1
32.5°	1532.9	1569.8	1606.7	1654.3	1668.6
35°	1471.0	1510.3	1561.5	1611.5	1625.8
37.5°	1409.2	1453.2	1512.7	1563.9	1577.0
40°	1346.1	1394.9	1461.5	1513.9	1529.4
42.5°	1275.9	1335.4	1406.8	1462.7	1480.6
45°	1209.2	1272.3	1349.6	1410.3	1427.0
47.5°	1139.0	1205.6	1288.9	1353.2	1372.3
50°	1064.0	1140.2	1229.4	1293.7	1311.6
52.5°	993.8	1071.1	1165.2	1231.8	1256.8
55°	920.0	1002.1	1098.5	1167.5	1191.4
57.5°	851.0	929.5	1033.1	1102.1	1131.8
60°	772.4	859.3	962.8	1037.8	1061.6
62.5°	698.6	786.7	893.8	971.2	998.5
65°	622.5	711.7	822.4	903.3	928.3
67.5°	551.0	639.1	752.2	831.9	864.1
70°	472.5	565.3	680.8	762.9	790.3
72.5°	395.1	491.5	609.4	697.4	728.4
75°	323.7	417.7	540.3	626.0	660.5
77.5°	254.7	349.9	473.7	561.8	591.5
80°	185.7	285.6	411.8	498.7	527.2
82.5°	122.6	227.3	352.3	439.2	470.1
85°	71.4	177.3	299.9	383.2	416.6
87.5°	30.9	134.5	251.1	333.2	360.6
90°	1.2	100.0	211.8	291.6	320.2
92.5°	1.2	97.6	207.1	285.6	313.0
95°	1.2	95.2	205.9	282.1	309.4
97.5°	1.2	94.0	203.5	279.7	305.9
100°	1.2	90.5	199.9	274.9	301.1
102.5°	1.2	85.7	196.4	270.2	295.2
105°	1.2	82.1	192.8	265.4	289.2
107.5°	1.2	78.6	186.9	259.5	283.3
110°	1.2	75.0	177.3	253.5	277.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	73.8	170.2	245.2	270.2
115°	2.4	71.4	163.1	235.7	261.8
117.5°	2.4	70.2	157.1	226.1	253.5
120°	2.4	66.6	151.2	217.8	244.0
122.5°	2.4	63.1	145.2	209.5	235.7
125°	2.4	60.7	139.2	201.1	226.1
127.5°	2.4	57.1	134.5	192.8	215.4
130°	2.4	54.7	128.5	183.3	205.9
132.5°	2.4	51.2	122.6	173.8	195.2
135°	2.4	47.6	116.6	165.4	185.7
137.5°	2.4	42.8	109.5	155.9	175.0
140°	2.4	39.3	100.0	146.4	164.2
142.5°	2.4	36.9	90.5	135.7	152.3
145°	2.4	34.5	80.9	125.0	140.4
147.5°	2.4	32.1	72.6	114.3	128.5
150°	2.4	28.6	64.3	104.7	116.6
152.5°	3.6	26.2	57.1	92.8	104.7
155°	3.6	23.8	50.0	79.7	92.8
157.5°	3.6	21.4	42.8	66.6	80.9
160°	3.6	19.0	36.9	54.7	69.0
162.5°	3.6	17.9	32.1	45.2	58.3
165°	3.6	15.5	27.4	36.9	47.6
167.5°	3.6	11.9	22.6	28.6	39.3
170°	3.6	9.5	17.9	20.2	29.8
172.5°	3.6	7.1	13.1	14.3	15.5
175°	3.6	6.0	8.3	8.3	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)