

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: P566840

Luminaire Tested: **4SNX-81HL-SLW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566840
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-81HL-SLW-UNV-L840-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

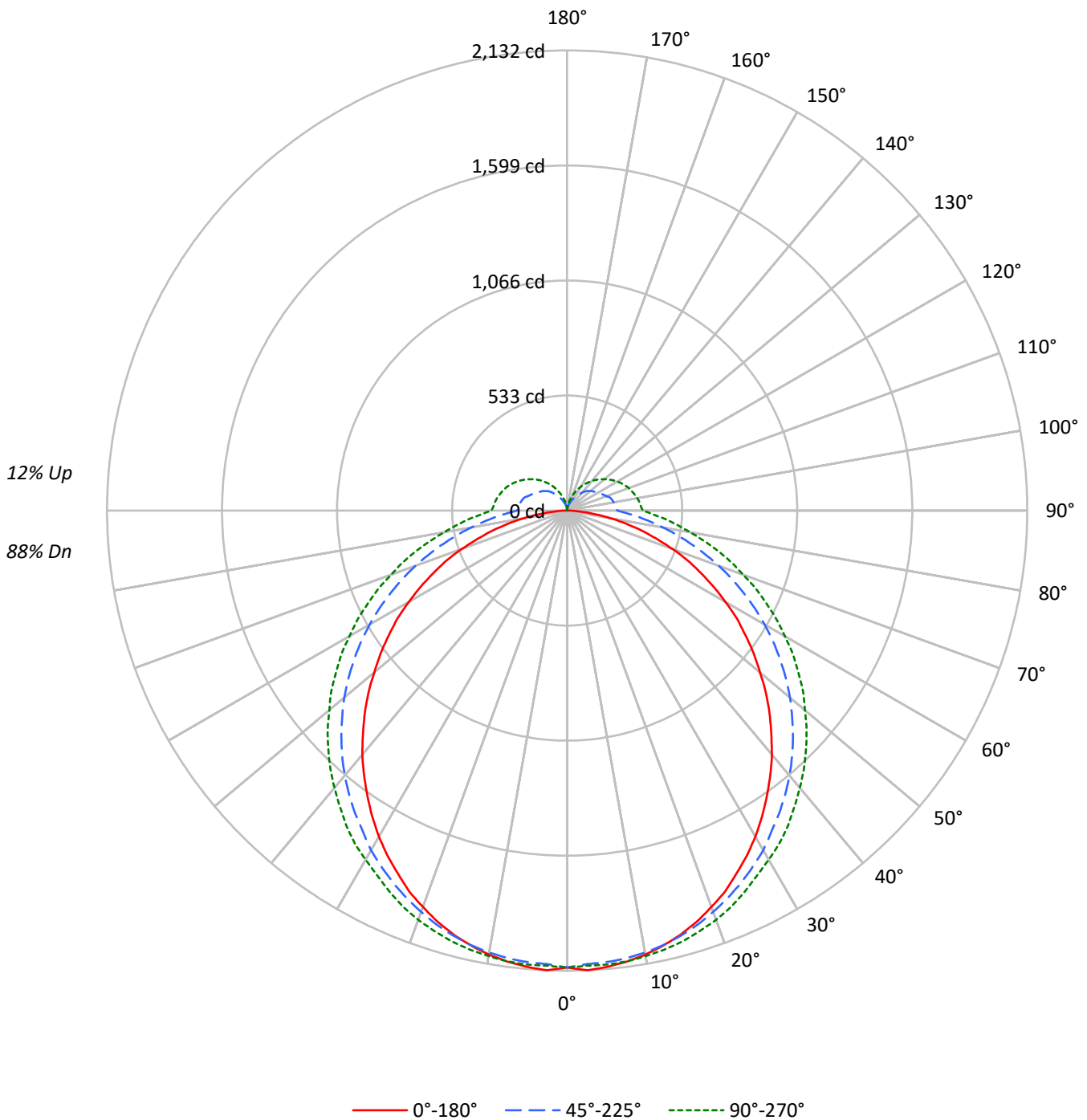
Lumens per Lamp: N/A
Luminaire Lumens: 7622.0 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 55.1
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

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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°	22788	22788	22788
5°	22890	22207	22175
10°	22743	21768	21644
15°	22536	21296	21144
20°	22214	20779	20622
25°	21832	20260	20028
30°	21417	19740	19481
35°	20896	19157	19010
40°	20388	18624	18432
45°	19776	18033	17885
50°	19069	17405	17258
55°	18388	16670	16632
60°	17604	15873	15914
65°	16645	14966	15147
70°	15429	13942	14265
75°	13703	12764	13455
80°	11292	11593	12432
85°	7816	10548	11766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	2.6
10°-20°	578.2	7.6
20°-30°	879.5	11.5
30°-40°	1069.4	14.0
40°-50°	1131.4	14.8
50°-60°	1060.5	13.9
60°-70°	872.5	11.4
70°-80°	603.7	7.9
80°-90°	335.7	4.4
90°-100°	221.1	2.9
100°-110°	198.3	2.6
110°-120°	164.1	2.2
120°-130°	126.9	1.7
130°-140°	89.8	1.2
140°-150°	54.2	0.7
150°-160°	26.0	0.3
160°-170°	8.5	0.1
170°-180°	1.0	0.0
0°-30°	1658.7	21.8
0°-40°	2728.1	35.8
0°-60°	4920.0	64.6
0°-90°	6731.9	88.3
90°-120°	583.6	7.7
90°-150°	854.5	11.2
90°-180°	890.0	11.7
0°-180°	7622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2117	2117	2117	2117	2117	
5°	2122	2118	2100	2117	2112	201
15°	2034	2040	2039	2066	2066	573
25°	1856	1882	1904	1946	1947	856
35°	1613	1656	1712	1767	1783	1010
45°	1326	1395	1480	1547	1565	1022
55°	1009	1099	1205	1280	1306	903
65°	683	780	902	991	1018	677
75°	355	458	593	687	724	377
85°	78	194	329	420	457	90
90°	1	110	232	320	351	5
95°	1	104	226	309	339	1
105°	1	90	211	291	317	1
115°	3	78	179	258	287	2
125°	3	67	153	221	248	2
135°	3	52	128	181	204	2
145°	3	38	89	137	154	2
155°	4	26	55	88	102	2
165°	4	17	30	40	52	1
175°	4	6	9	9	5	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2117.1	2117.1	2117.1	2117.1	2117.1
2.5°	2131.5	2124.9	2102.7	2117.1	2110.6
5°	2122.3	2118.4	2100.1	2117.1	2111.9
7.5°	2108.0	2106.7	2092.3	2111.9	2106.7
10°	2088.4	2091.0	2079.2	2100.1	2096.2
12.5°	2063.6	2067.5	2062.3	2085.8	2083.2
15°	2033.6	2040.1	2038.8	2066.2	2066.2
17.5°	1997.0	2006.2	2011.4	2042.7	2042.7
20°	1953.9	1968.3	1978.7	2012.7	2017.9
22.5°	1910.9	1927.8	1943.5	1978.7	1986.6
25°	1856.0	1882.2	1904.3	1946.1	1947.4
27.5°	1802.5	1831.2	1861.3	1901.7	1905.6
30°	1743.8	1780.3	1816.9	1856.0	1867.8
32.5°	1681.1	1721.6	1762.1	1814.3	1829.9
35°	1613.3	1656.3	1712.5	1767.3	1783.0
37.5°	1545.4	1593.7	1659.0	1715.1	1729.4
40°	1476.2	1529.7	1602.8	1660.3	1677.2
42.5°	1399.2	1464.5	1542.8	1604.1	1623.7
45°	1326.1	1395.3	1480.1	1546.7	1565.0
47.5°	1249.1	1322.2	1413.6	1484.1	1504.9
50°	1166.9	1250.4	1348.3	1418.8	1438.4
52.5°	1089.9	1174.7	1277.8	1350.9	1378.3
55°	1008.9	1099.0	1204.7	1280.4	1306.5
57.5°	933.2	1019.4	1132.9	1208.7	1241.3
60°	847.1	942.4	1055.9	1138.2	1164.3
62.5°	766.2	862.8	980.2	1065.1	1095.1
65°	682.6	780.5	901.9	990.7	1018.1
67.5°	604.3	700.9	824.9	912.4	947.6
70°	518.2	620.0	746.6	836.7	866.7
72.5°	433.3	539.1	668.3	764.9	798.8
75°	355.0	458.1	592.6	686.6	724.4
77.5°	279.3	383.7	519.5	616.1	648.7
80°	203.6	313.3	451.6	546.9	578.2
82.5°	134.4	249.3	386.4	481.6	515.6
85°	78.3	194.5	328.9	420.3	456.8
87.5°	33.9	147.5	275.4	365.5	395.5
90°	1.3	109.6	232.3	319.8	351.1
92.5°	1.3	107.0	227.1	313.3	343.3
95°	1.3	104.4	225.8	309.3	339.4
97.5°	1.3	103.1	223.2	306.7	335.4
100°	1.3	99.2	219.3	301.5	330.2
102.5°	1.3	94.0	215.4	296.3	323.7
105°	1.3	90.1	211.4	291.1	317.2
107.5°	1.3	86.1	204.9	284.5	310.6
110°	1.3	82.2	194.5	278.0	304.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	80.9	186.6	268.9	296.3
115°	2.6	78.3	178.8	258.4	287.2
117.5°	2.6	77.0	172.3	248.0	278.0
120°	2.6	73.1	165.8	238.9	267.6
122.5°	2.6	69.2	159.2	229.7	258.4
125°	2.6	66.6	152.7	220.6	248.0
127.5°	2.6	62.7	147.5	211.4	236.2
130°	2.6	60.0	141.0	201.0	225.8
132.5°	2.6	56.1	134.4	190.6	214.1
135°	2.6	52.2	127.9	181.4	203.6
137.5°	2.6	47.0	120.1	171.0	191.9
140°	2.6	43.1	109.6	160.5	180.1
142.5°	2.6	40.5	99.2	148.8	167.1
145°	2.6	37.9	88.8	137.1	154.0
147.5°	2.6	35.2	79.6	125.3	141.0
150°	2.6	31.3	70.5	114.9	127.9
152.5°	3.9	28.7	62.7	101.8	114.9
155°	3.9	26.1	54.8	87.5	101.8
157.5°	3.9	23.5	47.0	73.1	88.8
160°	3.9	20.9	40.5	60.0	75.7
162.5°	3.9	19.6	35.2	49.6	64.0
165°	3.9	17.0	30.0	40.5	52.2
167.5°	3.9	13.1	24.8	31.3	43.1
170°	3.9	10.4	19.6	22.2	32.6
172.5°	3.9	7.8	14.4	15.7	17.0
175°	3.9	6.5	9.1	9.1	5.2
177.5°	3.9	5.2	5.2	5.2	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)