

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: P566843

Luminaire Tested: **4SNX-81HL-SLW-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566843
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-L935-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

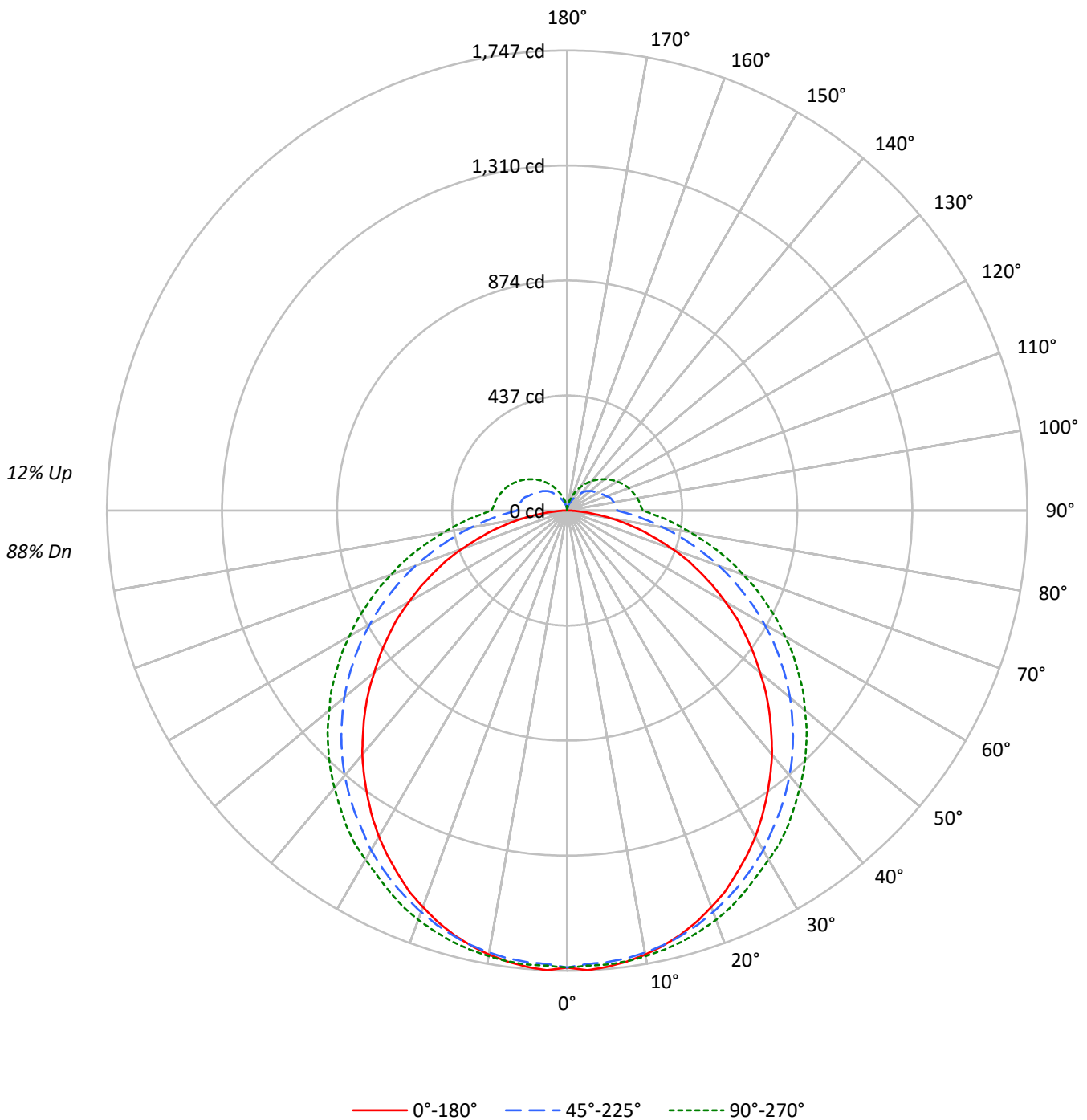
Lumens per Lamp: N/A
Luminaire Lumens: 6246.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

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°	18674	18674	18674
5°	18758	18198	18171
10°	18637	17839	17737
15°	18467	17451	17327
20°	18204	17028	16899
25°	17891	16604	16412
30°	17551	16176	15964
35°	17123	15698	15578
40°	16707	15262	15104
45°	16206	14777	14657
50°	15626	14263	14142
55°	15069	13660	13630
60°	14426	13008	13041
65°	13641	12264	12412
70°	12642	11425	11689
75°	11229	10459	11026
80°	9256	9501	10188
85°	6409	8643	9644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	2.6
10°-20°	473.8	7.6
20°-30°	720.7	11.5
30°-40°	876.4	14.0
40°-50°	927.2	14.8
50°-60°	869.1	13.9
60°-70°	715.0	11.4
70°-80°	494.7	7.9
80°-90°	275.1	4.4
90°-100°	181.2	2.9
100°-110°	162.5	2.6
110°-120°	134.5	2.2
120°-130°	104.0	1.7
130°-140°	73.6	1.2
140°-150°	44.4	0.7
150°-160°	21.3	0.3
160°-170°	7.0	0.1
170°-180°	0.9	0.0
0°-30°	1359.2	21.8
0°-40°	2235.6	35.8
0°-60°	4031.8	64.6
0°-90°	5516.6	88.3
90°-120°	478.3	7.7
90°-150°	700.2	11.2
90°-180°	729.0	11.7
0°-180°	6246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1739	1736	1721	1735	1731	165
15°	1666	1672	1671	1693	1693	470
25°	1521	1542	1561	1595	1596	701
35°	1322	1357	1403	1448	1461	827
45°	1087	1143	1213	1268	1282	838
55°	827	901	987	1049	1071	740
65°	559	640	739	812	834	555
75°	291	375	486	563	594	309
85°	64	159	270	344	374	74
90°	1	90	190	262	288	4
95°	1	86	185	254	278	1
105°	1	74	173	238	260	1
115°	2	64	146	212	235	2
125°	2	54	125	181	203	2
135°	2	43	105	149	167	2
145°	2	31	73	112	126	1
155°	3	21	45	72	83	1
165°	3	14	25	33	43	1
175°	3	5	8	8	4	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.9	1734.9	1734.9	1734.9	1734.9
2.5°	1746.7	1741.3	1723.1	1734.9	1729.5
5°	1739.2	1736.0	1721.0	1734.9	1730.6
7.5°	1727.4	1726.3	1714.6	1730.6	1726.3
10°	1711.4	1713.5	1703.9	1721.0	1717.8
12.5°	1691.0	1694.3	1690.0	1709.2	1707.1
15°	1666.4	1671.8	1670.7	1693.2	1693.2
17.5°	1636.5	1644.0	1648.3	1673.9	1673.9
20°	1601.2	1613.0	1621.5	1649.3	1653.6
22.5°	1565.9	1579.8	1592.6	1621.5	1627.9
25°	1521.0	1542.4	1560.6	1594.8	1595.8
27.5°	1477.1	1500.7	1525.3	1558.4	1561.6
30°	1429.0	1458.9	1488.9	1521.0	1530.6
32.5°	1377.6	1410.8	1444.0	1486.7	1499.6
35°	1322.0	1357.3	1403.3	1448.2	1461.1
37.5°	1266.4	1306.0	1359.5	1405.5	1417.2
40°	1209.7	1253.6	1313.5	1360.5	1374.4
42.5°	1146.6	1200.1	1264.3	1314.5	1330.6
45°	1086.7	1143.4	1212.9	1267.5	1282.5
47.5°	1023.6	1083.5	1158.4	1216.1	1233.3
50°	956.2	1024.7	1104.9	1162.7	1178.7
52.5°	893.1	962.6	1047.1	1107.0	1129.5
55°	826.8	900.6	987.2	1049.3	1070.7
57.5°	764.8	835.4	928.4	990.5	1017.2
60°	694.2	772.3	865.3	932.7	954.1
62.5°	627.9	707.0	803.3	872.8	897.4
65°	559.4	639.6	739.1	811.8	834.3
67.5°	495.2	574.4	676.0	747.7	776.5
70°	424.6	508.1	611.8	685.6	710.2
72.5°	355.1	441.7	547.6	626.8	654.6
75°	290.9	375.4	485.6	562.6	593.6
77.5°	228.9	314.5	425.7	504.9	531.6
80°	166.9	256.7	370.1	448.2	473.8
82.5°	110.2	204.3	316.6	394.7	422.5
85°	64.2	159.4	269.5	344.4	374.4
87.5°	27.8	120.9	225.7	299.5	324.1
90°	1.1	89.8	190.4	262.1	287.7
92.5°	1.1	87.7	186.1	256.7	281.3
95°	1.1	85.6	185.0	253.5	278.1
97.5°	1.1	84.5	182.9	251.4	274.9
100°	1.1	81.3	179.7	247.1	270.6
102.5°	1.1	77.0	176.5	242.8	265.3
105°	1.1	73.8	173.3	238.5	259.9
107.5°	1.1	70.6	167.9	233.2	254.6
110°	1.1	67.4	159.4	227.8	249.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	66.3	153.0	220.3	242.8
115°	2.1	64.2	146.5	211.8	235.3
117.5°	2.1	63.1	141.2	203.2	227.8
120°	2.1	59.9	135.8	195.7	219.3
122.5°	2.1	56.7	130.5	188.3	211.8
125°	2.1	54.5	125.1	180.8	203.2
127.5°	2.1	51.3	120.9	173.3	193.6
130°	2.1	49.2	115.5	164.7	185.0
132.5°	2.1	46.0	110.2	156.2	175.4
135°	2.1	42.8	104.8	148.7	166.9
137.5°	2.1	38.5	98.4	140.1	157.2
140°	2.1	35.3	89.8	131.6	147.6
142.5°	2.1	33.2	81.3	121.9	136.9
145°	2.1	31.0	72.7	112.3	126.2
147.5°	2.1	28.9	65.2	102.7	115.5
150°	2.1	25.7	57.8	94.1	104.8
152.5°	3.2	23.5	51.3	83.4	94.1
155°	3.2	21.4	44.9	71.7	83.4
157.5°	3.2	19.3	38.5	59.9	72.7
160°	3.2	17.1	33.2	49.2	62.0
162.5°	3.2	16.0	28.9	40.6	52.4
165°	3.2	13.9	24.6	33.2	42.8
167.5°	3.2	10.7	20.3	25.7	35.3
170°	3.2	8.6	16.0	18.2	26.7
172.5°	3.2	6.4	11.8	12.8	13.9
175°	3.2	5.3	7.5	7.5	4.3
177.5°	3.2	4.3	4.3	4.3	2.1
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)