

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: P566831

Luminaire Tested: **4SNX-81HL-LW-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566831
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-LW-UNV-L835-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

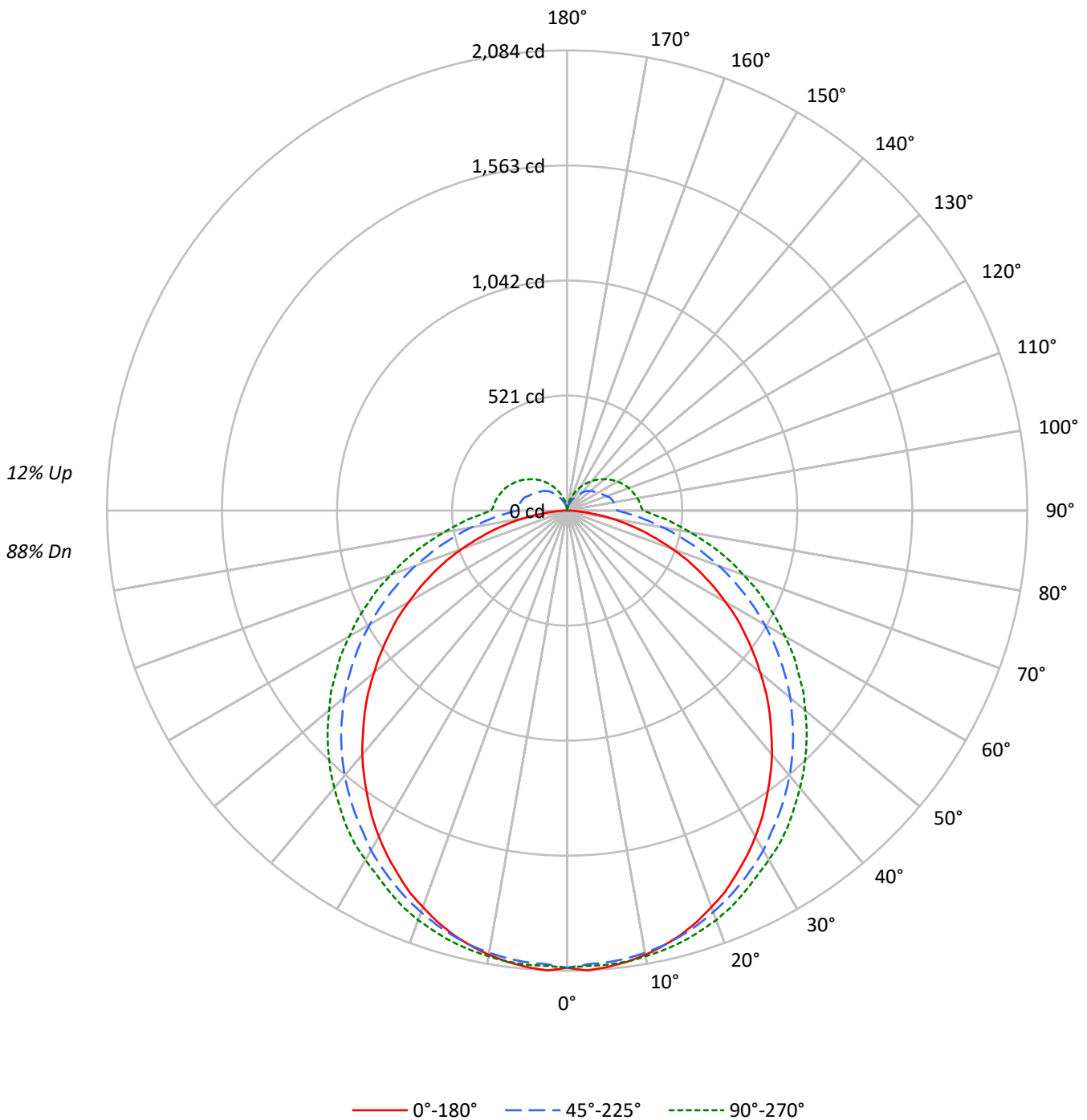
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7454.0 lumens
Efficiency: N/A
Efficacy: 135.3 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: 0.17')
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	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°	22286	22286	22286
5°	22344	21260	21086
10°	22161	20421	20050
15°	21917	19589	19105
20°	21562	18748	18191
25°	21146	17931	17255
30°	20699	17130	16393
35°	20144	16292	15621
40°	19601	15508	14780
45°	18952	14681	13979
50°	18206	13827	13127
55°	17477	12890	12283
60°	16633	11904	11376
65°	15609	10831	10436
70°	14311	9670	9420
75°	12496	8399	8446
80°	9983	7129	7332
85°	6408	5908	6401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.6	2.6
10°-20°	565.4	7.6
20°-30°	860.1	11.5
30°-40°	1045.8	14.0
40°-50°	1106.5	14.8
50°-60°	1037.2	13.9
60°-70°	853.2	11.4
70°-80°	590.4	7.9
80°-90°	328.3	4.4
90°-100°	216.3	2.9
100°-110°	193.9	2.6
110°-120°	160.5	2.2
120°-130°	124.1	1.7
130°-140°	87.9	1.2
140°-150°	53.0	0.7
150°-160°	25.5	0.3
160°-170°	8.3	0.1
170°-180°	1.0	0.0
0°-30°	1622.1	21.8
0°-40°	2667.9	35.8
0°-60°	4811.6	64.6
0°-90°	6583.5	88.3
90°-120°	570.8	7.7
90°-150°	835.7	11.2
90°-180°	871.0	11.7
0°-180°	7454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2070	2070	2070	2070	2070	
5°	2076	2072	2054	2070	2065	197
15°	1989	1995	1994	2021	2021	561
25°	1815	1841	1862	1903	1904	837
35°	1578	1620	1675	1728	1744	987
45°	1297	1364	1448	1513	1530	1000
55°	987	1075	1178	1252	1278	883
65°	668	763	882	969	996	662
75°	347	448	580	671	708	368
85°	77	190	322	411	447	88
90°	1	107	227	313	343	5
95°	1	102	221	302	332	1
105°	1	88	207	285	310	1
115°	3	77	175	253	281	2
125°	3	65	149	216	242	2
135°	3	51	125	177	199	2
145°	3	37	87	134	151	2
155°	4	26	54	86	100	2
165°	4	17	29	40	51	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°	2070.4	2070.4	2070.4	2070.4	2070.4
2.5°	2084.5	2078.1	2056.4	2070.4	2064.1
5°	2075.5	2071.7	2053.8	2070.4	2065.3
7.5°	2061.5	2060.2	2046.2	2065.3	2060.2
10°	2042.4	2044.9	2033.4	2053.8	2050.0
12.5°	2018.1	2021.9	2016.8	2039.8	2037.2
15°	1988.7	1995.1	1993.8	2020.7	2020.7
17.5°	1953.0	1961.9	1967.0	1997.7	1997.7
20°	1910.9	1924.9	1935.1	1968.3	1973.4
22.5°	1868.8	1885.3	1900.7	1935.1	1942.8
25°	1815.1	1840.7	1862.4	1903.2	1904.5
27.5°	1762.8	1790.9	1820.2	1859.8	1863.6
30°	1705.4	1741.1	1776.8	1815.1	1826.6
32.5°	1644.1	1683.7	1723.2	1774.3	1789.6
35°	1577.7	1619.8	1674.7	1728.3	1743.7
37.5°	1511.3	1558.6	1622.4	1677.3	1691.3
40°	1443.7	1496.0	1567.5	1623.7	1640.3
42.5°	1368.4	1432.2	1508.8	1568.8	1587.9
45°	1296.9	1364.5	1447.5	1512.6	1530.5
47.5°	1221.6	1293.1	1382.4	1451.3	1471.8
50°	1141.2	1222.9	1318.6	1387.5	1406.7
52.5°	1065.9	1148.8	1249.7	1321.1	1348.0
55°	986.7	1074.8	1178.2	1252.2	1277.7
57.5°	912.7	996.9	1108.0	1182.0	1213.9
60°	828.4	921.6	1032.7	1113.1	1138.6
62.5°	749.3	843.7	958.6	1041.6	1071.0
65°	667.6	763.3	882.0	968.8	995.6
67.5°	591.0	685.5	806.7	892.3	926.7
70°	506.8	606.3	730.1	818.2	847.6
72.5°	423.8	527.2	653.6	748.0	781.2
75°	347.2	448.0	579.5	671.4	708.4
77.5°	273.2	375.3	508.0	602.5	634.4
80°	199.1	306.4	441.7	534.8	565.5
82.5°	131.5	243.8	377.8	471.0	504.2
85°	76.6	190.2	321.7	411.0	446.8
87.5°	33.2	144.2	269.3	357.4	386.8
90°	1.3	107.2	227.2	312.7	343.4
92.5°	1.3	104.7	222.1	306.4	335.7
95°	1.3	102.1	220.8	302.5	331.9
97.5°	1.3	100.8	218.3	300.0	328.1
100°	1.3	97.0	214.4	294.9	322.9
102.5°	1.3	91.9	210.6	289.8	316.6
105°	1.3	88.1	206.8	284.7	310.2
107.5°	1.3	84.2	200.4	278.3	303.8
110°	1.3	80.4	190.2	271.9	297.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	79.1	182.5	263.0	289.8
115°	2.6	76.6	174.9	252.7	280.8
117.5°	2.6	75.3	168.5	242.5	271.9
120°	2.6	71.5	162.1	233.6	261.7
122.5°	2.6	67.7	155.7	224.7	252.7
125°	2.6	65.1	149.3	215.7	242.5
127.5°	2.6	61.3	144.2	206.8	231.0
130°	2.6	58.7	137.9	196.6	220.8
132.5°	2.6	54.9	131.5	186.4	209.3
135°	2.6	51.1	125.1	177.4	199.1
137.5°	2.6	46.0	117.4	167.2	187.6
140°	2.6	42.1	107.2	157.0	176.2
142.5°	2.6	39.6	97.0	145.5	163.4
145°	2.6	37.0	86.8	134.0	150.6
147.5°	2.6	34.5	77.9	122.5	137.9
150°	2.6	30.6	68.9	112.3	125.1
152.5°	3.8	28.1	61.3	99.6	112.3
155°	3.8	25.5	53.6	85.5	99.6
157.5°	3.8	23.0	46.0	71.5	86.8
160°	3.8	20.4	39.6	58.7	74.0
162.5°	3.8	19.1	34.5	48.5	62.5
165°	3.8	16.6	29.4	39.6	51.1
167.5°	3.8	12.8	24.3	30.6	42.1
170°	3.8	10.2	19.1	21.7	31.9
172.5°	3.8	7.7	14.0	15.3	16.6
175°	3.8	6.4	8.9	8.9	5.1
177.5°	3.8	5.1	5.1	5.1	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)