

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: P566809

Luminaire Tested: **4SNX-81HL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566809
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-FDL-UNV-L850-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

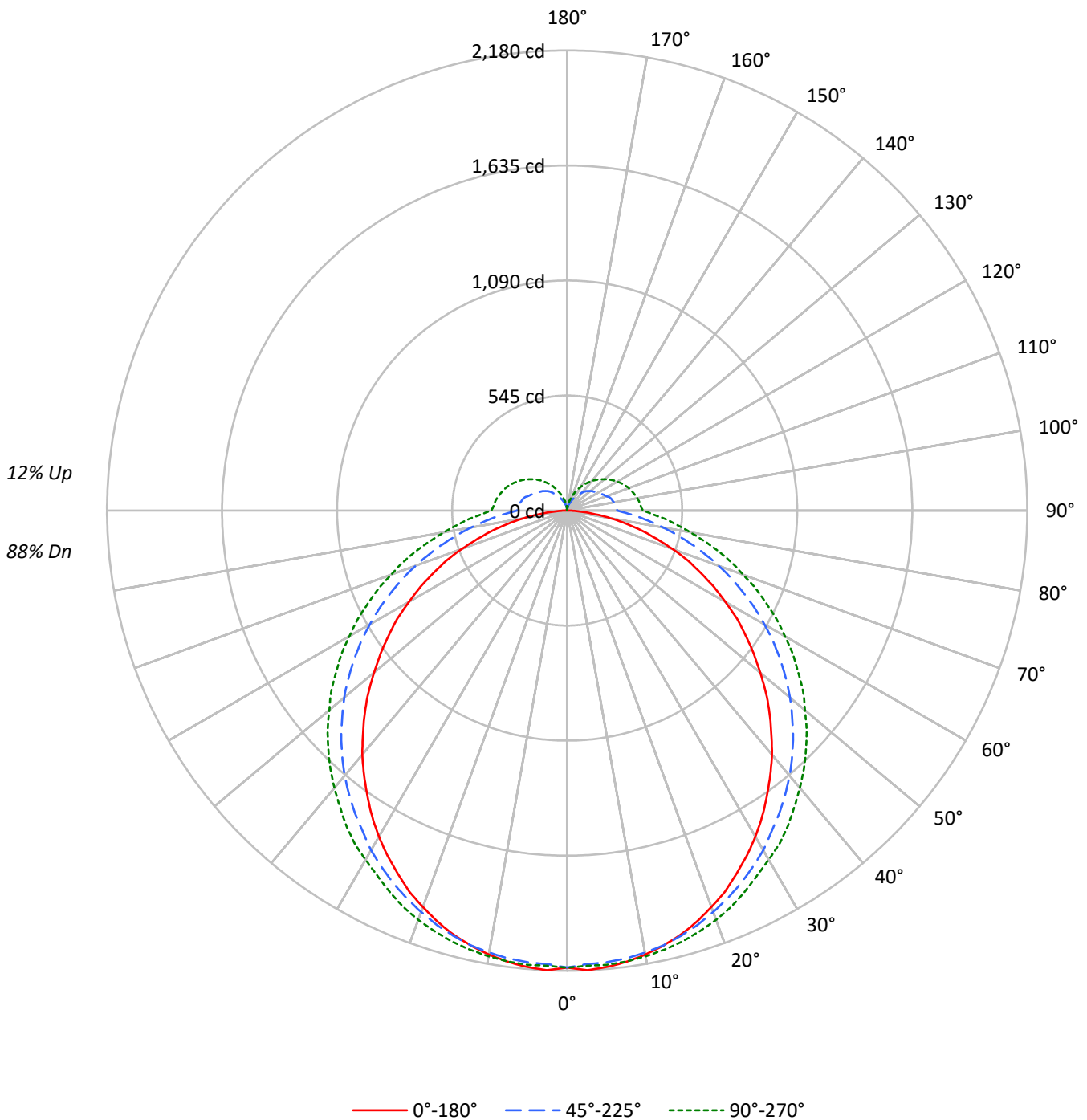
Lumens per Lamp: N/A
Luminaire Lumens: 7795.0 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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°	23305	23305	23305
5°	23431	22956	23001
10°	23301	22739	22763
15°	23111	22481	22541
20°	22804	22170	22287
25°	22435	21855	21948
30°	22034	21537	21658
35°	21523	21158	21456
40°	21029	20843	21145
45°	20432	20478	20883
50°	19739	20092	20551
55°	19079	19614	20254
60°	18319	19104	19891
65°	17392	18520	19536
70°	16213	17878	19132
75°	14536	17176	18994
80°	12186	16742	18843
85°	8840	17088	19862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.5	2.6
10°-20°	591.3	7.6
20°-30°	899.5	11.5
30°-40°	1093.7	14.0
40°-50°	1157.1	14.8
50°-60°	1084.6	13.9
60°-70°	892.3	11.4
70°-80°	617.4	7.9
80°-90°	343.3	4.4
90°-100°	226.2	2.9
100°-110°	202.8	2.6
110°-120°	167.9	2.2
120°-130°	129.8	1.7
130°-140°	91.9	1.2
140°-150°	55.4	0.7
150°-160°	26.6	0.3
160°-170°	8.7	0.1
170°-180°	1.1	0.0
0°-30°	1696.3	21.8
0°-40°	2790.0	35.8
0°-60°	5031.7	64.6
0°-90°	6884.7	88.3
90°-120°	596.9	7.7
90°-150°	873.9	11.2
90°-180°	910.0	11.7
0°-180°	7795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2165	2165	2165	2165	2165	
5°	2170	2166	2148	2165	2160	206
15°	2080	2086	2085	2113	2113	586
25°	1898	1925	1948	1990	1992	875
35°	1650	1694	1751	1807	1823	1033
45°	1356	1427	1514	1582	1600	1045
55°	1032	1124	1232	1310	1336	924
65°	698	798	922	1013	1041	692
75°	363	468	606	702	741	385
85°	80	199	336	430	467	92
90°	1	112	238	327	359	5
95°	1	107	231	316	347	1
105°	1	92	216	298	324	1
115°	3	80	183	264	294	2
125°	3	68	156	226	254	2
135°	3	53	131	186	208	2
145°	3	39	91	140	158	2
155°	4	27	56	89	104	2
165°	4	17	31	41	53	1
175°	4	7	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°	2165.1	2165.1	2165.1	2165.1	2165.1
2.5°	2179.8	2173.2	2150.5	2165.1	2158.5
5°	2170.5	2166.5	2147.8	2165.1	2159.8
7.5°	2155.8	2154.5	2139.8	2159.8	2154.5
10°	2135.8	2138.5	2126.4	2147.8	2143.8
12.5°	2110.4	2114.4	2109.1	2133.1	2130.4
15°	2079.7	2086.4	2085.1	2113.1	2113.1
17.5°	2042.3	2051.7	2057.0	2089.1	2089.1
20°	1998.3	2013.0	2023.7	2058.4	2063.7
22.5°	1954.2	1971.6	1987.6	2023.7	2031.7
25°	1898.2	1924.9	1947.6	1990.3	1991.6
27.5°	1843.4	1872.8	1903.5	1944.9	1948.9
30°	1783.4	1820.8	1858.1	1898.2	1910.2
32.5°	1719.3	1760.7	1802.1	1855.5	1871.5
35°	1649.9	1693.9	1751.3	1807.4	1823.4
37.5°	1580.5	1629.9	1696.6	1754.0	1768.7
40°	1509.7	1564.5	1639.2	1697.9	1715.3
42.5°	1431.0	1497.7	1577.8	1640.5	1660.6
45°	1356.2	1427.0	1513.7	1581.8	1600.5
47.5°	1277.5	1352.2	1445.7	1517.7	1539.1
50°	1193.4	1278.8	1378.9	1451.0	1471.0
52.5°	1114.6	1201.4	1306.8	1381.6	1409.6
55°	1031.8	1124.0	1232.1	1309.5	1336.2
57.5°	954.4	1042.5	1158.7	1236.1	1269.5
60°	866.3	963.8	1079.9	1164.0	1190.7
62.5°	783.6	882.3	1002.5	1089.2	1120.0
65°	698.1	798.2	922.4	1013.2	1041.2
67.5°	618.0	716.8	843.6	933.1	969.1
70°	529.9	634.1	763.5	855.6	886.3
72.5°	443.2	551.3	683.5	782.2	816.9
75°	363.1	468.5	606.0	702.1	740.8
77.5°	285.7	392.5	531.3	630.1	663.4
80°	208.2	320.4	461.9	559.3	591.3
82.5°	137.5	255.0	395.1	492.6	527.3
85°	80.1	198.9	336.4	429.8	467.2
87.5°	34.7	150.8	281.7	373.8	404.5
90°	1.3	112.1	237.6	327.0	359.1
92.5°	1.3	109.5	232.3	320.4	351.1
95°	1.3	106.8	230.9	316.4	347.1
97.5°	1.3	105.5	228.3	313.7	343.1
100°	1.3	101.4	224.3	308.4	337.7
102.5°	1.3	96.1	220.3	303.0	331.0
105°	1.3	92.1	216.2	297.7	324.4
107.5°	1.3	88.1	209.6	291.0	317.7
110°	1.3	84.1	198.9	284.3	311.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	82.8	190.9	275.0	303.0
115°	2.7	80.1	182.9	264.3	293.7
117.5°	2.7	78.8	176.2	253.6	284.3
120°	2.7	74.8	169.5	244.3	273.6
122.5°	2.7	70.7	162.9	234.9	264.3
125°	2.7	68.1	156.2	225.6	253.6
127.5°	2.7	64.1	150.8	216.2	241.6
130°	2.7	61.4	144.2	205.6	230.9
132.5°	2.7	57.4	137.5	194.9	218.9
135°	2.7	53.4	130.8	185.5	208.2
137.5°	2.7	48.1	122.8	174.9	196.2
140°	2.7	44.1	112.1	164.2	184.2
142.5°	2.7	41.4	101.4	152.2	170.9
145°	2.7	38.7	90.8	140.2	157.5
147.5°	2.7	36.0	81.4	128.1	144.2
150°	2.7	32.0	72.1	117.5	130.8
152.5°	4.0	29.4	64.1	104.1	117.5
155°	4.0	26.7	56.1	89.4	104.1
157.5°	4.0	24.0	48.1	74.8	90.8
160°	4.0	21.4	41.4	61.4	77.4
162.5°	4.0	20.0	36.0	50.7	65.4
165°	4.0	17.4	30.7	41.4	53.4
167.5°	4.0	13.3	25.4	32.0	44.1
170°	4.0	10.7	20.0	22.7	33.4
172.5°	4.0	8.0	14.7	16.0	17.4
175°	4.0	6.7	9.3	9.3	5.3
177.5°	4.0	5.3	5.3	5.3	2.7
180°	2.7	2.7	2.7	2.7	2.7

(END OF REPORT)