

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: P566841

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566841
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-L850-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

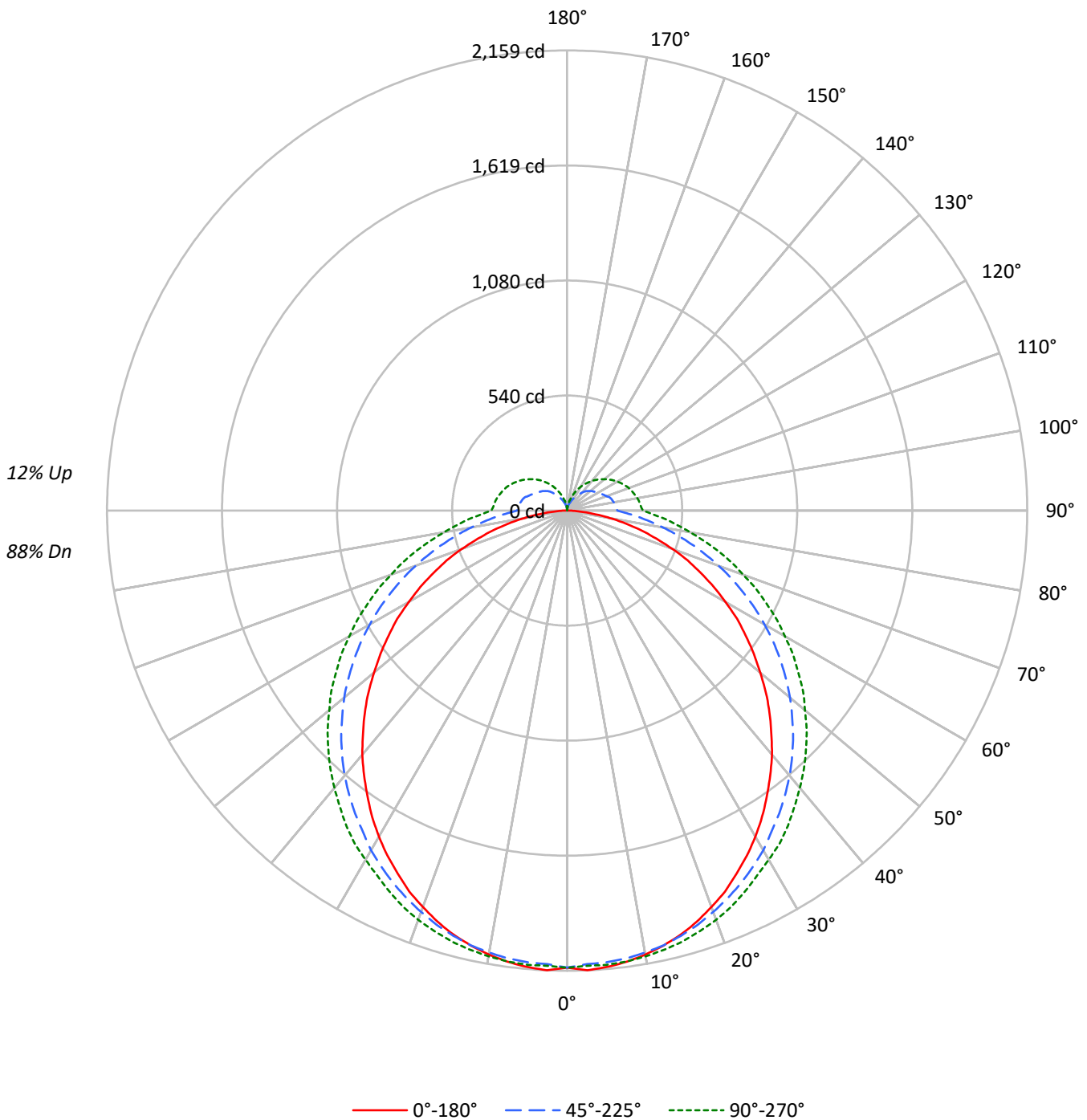
Lumens per Lamp: N/A
Luminaire Lumens: 7720.0 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 55.1
Input Voltage (V): NR
Input Current (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°	23081	23081	23081
5°	23184	22493	22460
10°	23035	22049	21923
15°	22826	21570	21416
20°	22500	21047	20887
25°	22113	20521	20286
30°	21692	19994	19731
35°	21164	19403	19254
40°	20650	18863	18669
45°	20031	18266	18115
50°	19314	17628	17480
55°	18625	16884	16846
60°	17830	16078	16117
65°	16859	15158	15341
70°	15625	14121	14447
75°	13880	12927	13628
80°	11436	11742	12594
85°	7916	10683	11918



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.6	2.6
10°-20°	585.6	7.6
20°-30°	890.8	11.5
30°-40°	1083.2	14.0
40°-50°	1146.0	14.8
50°-60°	1074.2	13.9
60°-70°	883.7	11.4
70°-80°	611.4	7.9
80°-90°	340.0	4.4
90°-100°	224.0	2.9
100°-110°	200.9	2.6
110°-120°	166.2	2.2
120°-130°	128.5	1.7
130°-140°	91.0	1.2
140°-150°	54.9	0.7
150°-160°	26.4	0.3
160°-170°	8.6	0.1
170°-180°	1.1	0.0
0°-30°	1680.0	21.8
0°-40°	2763.2	35.8
0°-60°	4983.3	64.6
0°-90°	6818.4	88.3
90°-120°	591.1	7.7
90°-150°	865.5	11.2
90°-180°	902.0	11.7
0°-180°	7720.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2144	2144	2144	2144	2144	
5°	2150	2146	2127	2144	2139	204
15°	2060	2066	2065	2093	2093	581
25°	1880	1906	1929	1971	1972	867
35°	1634	1678	1734	1790	1806	1023
45°	1343	1413	1499	1567	1585	1035
55°	1022	1113	1220	1297	1323	915
65°	691	791	914	1003	1031	686
75°	360	464	600	695	734	381
85°	79	197	333	426	463	91
90°	1	111	235	324	356	5
95°	1	106	229	313	344	1
105°	1	91	214	295	321	1
115°	3	79	181	262	291	2
125°	3	67	155	223	251	2
135°	3	53	130	184	206	2
145°	3	38	90	139	156	2
155°	4	26	56	89	103	2
165°	4	17	30	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°	2144.3	2144.3	2144.3	2144.3	2144.3
2.5°	2158.9	2152.2	2129.8	2144.3	2137.7
5°	2149.6	2145.6	2127.1	2144.3	2139.0
7.5°	2135.1	2133.7	2119.2	2139.0	2133.7
10°	2115.2	2117.9	2106.0	2127.1	2123.2
12.5°	2090.1	2094.1	2088.8	2112.6	2109.9
15°	2059.7	2066.3	2065.0	2092.8	2092.8
17.5°	2022.7	2031.9	2037.2	2069.0	2069.0
20°	1979.1	1993.6	2004.2	2038.6	2043.8
22.5°	1935.4	1952.6	1968.5	2004.2	2012.1
25°	1879.9	1906.4	1928.8	1971.1	1972.5
27.5°	1825.7	1854.8	1885.2	1926.2	1930.2
30°	1766.2	1803.2	1840.3	1879.9	1891.8
32.5°	1702.8	1743.7	1784.7	1837.6	1853.5
35°	1634.0	1677.6	1734.5	1790.0	1805.9
37.5°	1565.3	1614.2	1680.3	1737.1	1751.7
40°	1495.2	1549.4	1623.4	1681.6	1698.8
42.5°	1417.2	1483.3	1562.6	1624.8	1644.6
45°	1343.2	1413.2	1499.2	1566.6	1585.1
47.5°	1265.2	1339.2	1431.7	1503.1	1524.3
50°	1181.9	1266.5	1365.6	1437.0	1456.9
52.5°	1103.9	1189.8	1294.3	1368.3	1396.1
55°	1021.9	1113.1	1220.2	1296.9	1323.3
57.5°	945.2	1032.5	1147.5	1224.2	1257.2
60°	858.0	954.5	1069.5	1152.8	1179.2
62.5°	776.0	873.9	992.8	1078.8	1109.2
65°	691.4	790.6	913.5	1003.4	1031.2
67.5°	612.1	709.9	835.5	924.1	959.8
70°	524.8	628.0	756.2	847.4	877.8
72.5°	438.9	546.0	676.9	774.7	809.1
75°	359.6	464.0	600.2	695.4	733.7
77.5°	282.9	388.7	526.2	624.0	657.0
80°	206.2	317.3	457.4	553.9	585.7
82.5°	136.2	252.5	391.3	487.8	522.2
85°	79.3	197.0	333.1	425.7	462.7
87.5°	34.4	149.4	278.9	370.2	400.6
90°	1.3	111.0	235.3	323.9	355.6
92.5°	1.3	108.4	230.0	317.3	347.7
95°	1.3	105.8	228.7	313.3	343.7
97.5°	1.3	104.4	226.1	310.7	339.8
100°	1.3	100.5	222.1	305.4	334.5
102.5°	1.3	95.2	218.1	300.1	327.9
105°	1.3	91.2	214.2	294.8	321.3
107.5°	1.3	87.3	207.6	288.2	314.6
110°	1.3	83.3	197.0	281.6	308.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	82.0	189.0	272.3	300.1
115°	2.6	79.3	181.1	261.8	290.8
117.5°	2.6	78.0	174.5	251.2	281.6
120°	2.6	74.0	167.9	241.9	271.0
122.5°	2.6	70.1	161.3	232.7	261.8
125°	2.6	67.4	154.7	223.4	251.2
127.5°	2.6	63.5	149.4	214.2	239.3
130°	2.6	60.8	142.8	203.6	228.7
132.5°	2.6	56.8	136.2	193.0	216.8
135°	2.6	52.9	129.6	183.8	206.2
137.5°	2.6	47.6	121.6	173.2	194.3
140°	2.6	43.6	111.0	162.6	182.4
142.5°	2.6	41.0	100.5	150.7	169.2
145°	2.6	38.3	89.9	138.8	156.0
147.5°	2.6	35.7	80.6	126.9	142.8
150°	2.6	31.7	71.4	116.3	129.6
152.5°	4.0	29.1	63.5	103.1	116.3
155°	4.0	26.4	55.5	88.6	103.1
157.5°	4.0	23.8	47.6	74.0	89.9
160°	4.0	21.2	41.0	60.8	76.7
162.5°	4.0	19.8	35.7	50.2	64.8
165°	4.0	17.2	30.4	41.0	52.9
167.5°	4.0	13.2	25.1	31.7	43.6
170°	4.0	10.6	19.8	22.5	33.1
172.5°	4.0	7.9	14.5	15.9	17.2
175°	4.0	6.6	9.3	9.3	5.3
177.5°	4.0	5.3	5.3	5.3	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)