

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: P565949

Luminaire Tested: **4SNX-100HL-FDL-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565949
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-100HL-FDL-UNV-L950-CD
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

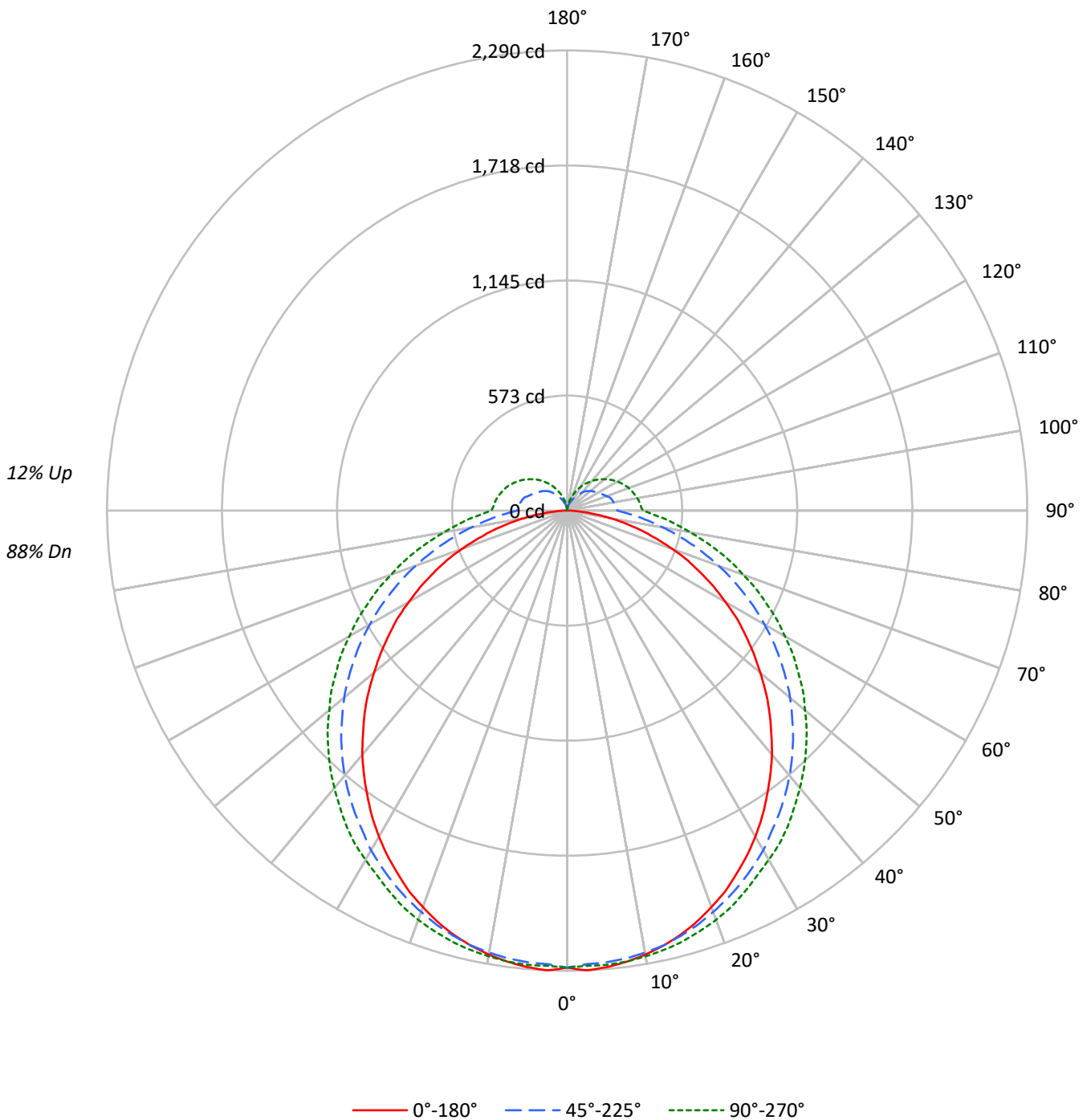
Lumens per Lamp: N/A
Luminaire Lumens: 8189.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 72.5
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	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°	24484	24484	24484
5°	24615	24116	24164
10°	24479	23889	23914
15°	24279	23617	23680
20°	23956	23290	23414
25°	23569	22959	23058
30°	23147	22627	22752
35°	22611	22228	22541
40°	22092	21897	22214
45°	21465	21513	21939
50°	20737	21108	21590
55°	20044	20606	21278
60°	19245	20070	20897
65°	18271	19456	20523
70°	17033	18782	20102
75°	15268	18046	19956
80°	12806	17587	19795
85°	9281	17952	20866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	2.6
10°-20°	621.2	7.6
20°-30°	945.0	11.5
30°-40°	1149.0	14.0
40°-50°	1215.6	14.8
50°-60°	1139.4	13.9
60°-70°	937.4	11.4
70°-80°	648.6	7.9
80°-90°	360.7	4.4
90°-100°	237.6	2.9
100°-110°	213.1	2.6
110°-120°	176.3	2.2
120°-130°	136.3	1.7
130°-140°	96.5	1.2
140°-150°	58.2	0.7
150°-160°	28.0	0.3
160°-170°	9.2	0.1
170°-180°	1.1	0.0
0°-30°	1782.0	21.8
0°-40°	2931.0	35.8
0°-60°	5286.1	64.6
0°-90°	7232.7	88.3
90°-120°	627.0	7.7
90°-150°	918.1	11.2
90°-180°	956.0	11.7
0°-180°	8189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2275	2275	2275	2275	2275	
5°	2280	2276	2256	2275	2269	216
15°	2185	2192	2190	2220	2220	616
25°	1994	2022	2046	2091	2092	919
35°	1733	1780	1840	1899	1916	1085
45°	1425	1499	1590	1662	1681	1098
55°	1084	1181	1294	1376	1404	970
65°	733	839	969	1064	1094	727
75°	381	492	637	738	778	405
85°	84	209	353	452	491	97
90°	1	118	250	344	377	6
95°	1	112	243	332	365	1
105°	1	97	227	313	341	1
115°	3	84	192	278	308	2
125°	3	72	164	237	266	3
135°	3	56	137	195	219	2
145°	3	41	95	147	166	2
155°	4	28	59	94	109	2
165°	4	18	32	44	56	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2274.6	2274.6	2274.6	2274.6	2274.6
2.5°	2290.0	2283.0	2259.2	2274.6	2267.6
5°	2280.2	2276.0	2256.4	2274.6	2269.0
7.5°	2264.8	2263.4	2247.9	2269.0	2263.4
10°	2243.7	2246.5	2233.9	2256.4	2252.2
12.5°	2217.1	2221.3	2215.7	2240.9	2238.1
15°	2184.8	2191.8	2190.4	2219.9	2219.9
17.5°	2145.6	2155.4	2161.0	2194.7	2194.7
20°	2099.3	2114.7	2125.9	2162.4	2168.0
22.5°	2053.0	2071.2	2088.1	2125.9	2134.4
25°	1994.1	2022.2	2046.0	2090.9	2092.3
27.5°	1936.6	1967.5	1999.7	2043.2	2047.4
30°	1873.5	1912.8	1952.1	1994.1	2006.7
32.5°	1806.2	1849.7	1893.2	1949.2	1966.1
35°	1733.3	1779.6	1839.9	1898.8	1915.6
37.5°	1660.4	1712.3	1782.4	1842.7	1858.1
40°	1586.0	1643.5	1722.1	1783.8	1802.0
42.5°	1503.3	1573.4	1657.6	1723.5	1744.5
45°	1424.8	1499.1	1590.2	1661.8	1681.4
47.5°	1342.0	1420.6	1518.7	1594.5	1616.9
50°	1253.7	1343.4	1448.6	1524.3	1545.4
52.5°	1170.9	1262.1	1372.9	1451.4	1480.9
55°	1084.0	1180.8	1294.4	1375.7	1403.7
57.5°	1002.7	1095.2	1217.2	1298.6	1333.6
60°	910.1	1012.5	1134.5	1222.8	1250.9
62.5°	823.2	926.9	1053.2	1144.3	1176.6
65°	733.4	838.6	969.0	1064.4	1093.8
67.5°	649.3	753.1	886.3	980.2	1018.1
70°	556.7	666.1	802.1	898.9	931.2
72.5°	465.6	579.2	718.0	821.8	858.2
75°	381.4	492.2	636.7	737.6	778.3
77.5°	300.1	412.3	558.1	661.9	697.0
80°	218.8	336.6	485.2	587.6	621.2
82.5°	144.4	267.8	415.1	517.5	553.9
85°	84.1	208.9	353.4	451.6	490.8
87.5°	36.5	158.5	295.9	392.7	424.9
90°	1.4	117.8	249.6	343.6	377.2
92.5°	1.4	115.0	244.0	336.6	368.8
95°	1.4	112.2	242.6	332.4	364.6
97.5°	1.4	110.8	239.8	329.5	360.4
100°	1.4	106.6	235.6	323.9	354.8
102.5°	1.4	101.0	231.4	318.3	347.8
105°	1.4	96.8	227.2	312.7	340.8
107.5°	1.4	92.6	220.2	305.7	333.8
110°	1.4	88.3	208.9	298.7	326.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	86.9	200.5	288.9	318.3
115°	2.8	84.1	192.1	277.7	308.5
117.5°	2.8	82.7	185.1	266.4	298.7
120°	2.8	78.5	178.1	256.6	287.5
122.5°	2.8	74.3	171.1	246.8	277.7
125°	2.8	71.5	164.1	237.0	266.4
127.5°	2.8	67.3	158.5	227.2	253.8
130°	2.8	64.5	151.5	216.0	242.6
132.5°	2.8	60.3	144.4	204.7	230.0
135°	2.8	56.1	137.4	194.9	218.8
137.5°	2.8	50.5	129.0	183.7	206.1
140°	2.8	46.3	117.8	172.5	193.5
142.5°	2.8	43.5	106.6	159.9	179.5
145°	2.8	40.7	95.4	147.2	165.5
147.5°	2.8	37.9	85.5	134.6	151.5
150°	2.8	33.7	75.7	123.4	137.4
152.5°	4.2	30.9	67.3	109.4	123.4
155°	4.2	28.0	58.9	94.0	109.4
157.5°	4.2	25.2	50.5	78.5	95.4
160°	4.2	22.4	43.5	64.5	81.3
162.5°	4.2	21.0	37.9	53.3	68.7
165°	4.2	18.2	32.3	43.5	56.1
167.5°	4.2	14.0	26.6	33.7	46.3
170°	4.2	11.2	21.0	23.8	35.1
172.5°	4.2	8.4	15.4	16.8	18.2
175°	4.2	7.0	9.8	9.8	5.6
177.5°	4.2	5.6	5.6	5.6	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)