

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: P566950

Luminaire Tested: **4SNX-90HL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566950
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-90HL-FDL-UNV-L830-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

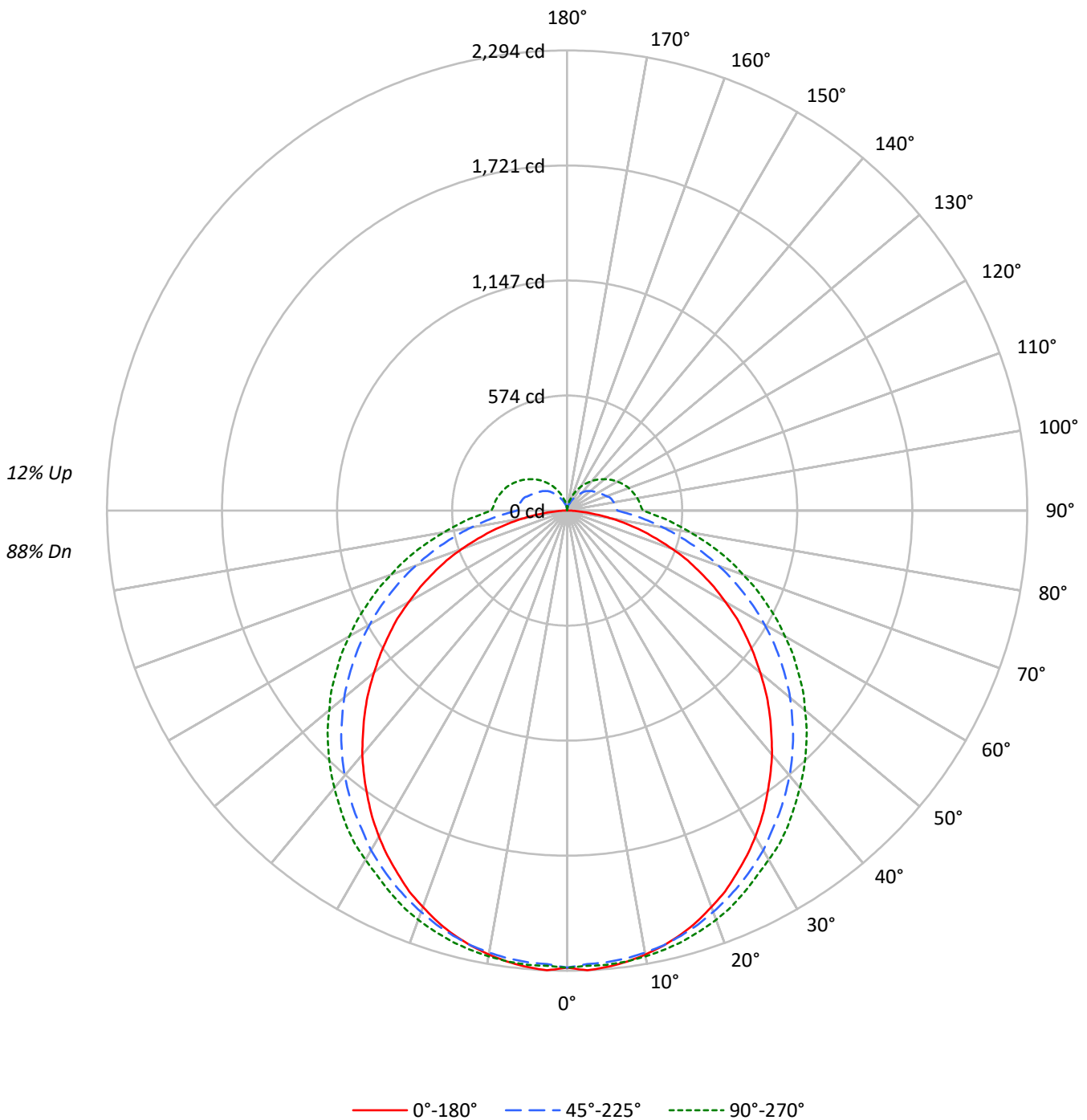
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8203.0 lumens
Efficiency: N/A
Efficacy: 127.4 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: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 64.4
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°	24526	24526	24526
5°	24657	24157	24206
10°	24521	23930	23954
15°	24321	23658	23721
20°	23997	23331	23453
25°	23609	22998	23097
30°	23186	22665	22792
35°	22649	22265	22580
40°	22131	21934	22252
45°	21502	21551	21976
50°	20771	21144	21627
55°	20080	20641	21314
60°	19279	20104	20932
65°	18304	19490	20559
70°	17063	18815	20134
75°	15296	18074	19989
80°	12824	17616	19830
85°	9304	17982	20904



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.3	2.6
10°-20°	622.2	7.6
20°-30°	946.6	11.5
30°-40°	1150.9	14.0
40°-50°	1217.7	14.8
50°-60°	1141.4	13.9
60°-70°	939.0	11.4
70°-80°	649.7	7.9
80°-90°	361.3	4.4
90°-100°	238.0	2.9
100°-110°	213.4	2.6
110°-120°	176.7	2.2
120°-130°	136.6	1.7
130°-140°	96.7	1.2
140°-150°	58.3	0.7
150°-160°	28.0	0.3
160°-170°	9.2	0.1
170°-180°	1.1	0.0
0°-30°	1785.1	21.8
0°-40°	2936.0	35.8
0°-60°	5295.1	64.6
0°-90°	7245.0	88.3
90°-120°	628.1	7.7
90°-150°	919.6	11.2
90°-180°	958.0	11.7
0°-180°	8203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2278	2278	2278	2278	2278	
5°	2284	2280	2260	2278	2273	217
15°	2189	2196	2194	2224	2224	617
25°	1998	2026	2050	2094	2096	921
35°	1736	1783	1843	1902	1919	1087
45°	1427	1502	1593	1665	1684	1100
55°	1086	1183	1297	1378	1406	972
65°	735	840	971	1066	1096	728
75°	382	493	638	739	780	405
85°	84	209	354	452	492	97
90°	1	118	250	344	378	6
95°	1	112	243	333	365	1
105°	1	97	228	313	341	1
115°	3	84	192	278	309	2
125°	3	72	164	237	267	3
135°	3	56	138	195	219	2
145°	3	41	96	148	166	2
155°	4	28	59	94	110	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°	2278.5	2278.5	2278.5	2278.5	2278.5
2.5°	2293.9	2286.9	2263.0	2278.5	2271.5
5°	2284.1	2279.9	2260.2	2278.5	2272.9
7.5°	2268.6	2267.2	2251.8	2272.9	2267.2
10°	2247.6	2250.4	2237.7	2260.2	2256.0
12.5°	2220.9	2225.1	2219.5	2244.8	2242.0
15°	2188.6	2195.6	2194.2	2223.7	2223.7
17.5°	2149.2	2159.1	2164.7	2198.4	2198.4
20°	2102.9	2118.3	2129.6	2166.1	2171.7
22.5°	2056.5	2074.8	2091.6	2129.6	2138.0
25°	1997.5	2025.6	2049.5	2094.5	2095.9
27.5°	1939.9	1970.8	2003.1	2046.7	2050.9
30°	1876.7	1916.1	1955.4	1997.5	2010.2
32.5°	1809.3	1852.8	1896.4	1952.6	1969.4
35°	1736.2	1782.6	1843.0	1902.0	1918.9
37.5°	1663.2	1715.2	1785.4	1845.8	1861.3
40°	1588.8	1646.3	1725.0	1786.8	1805.1
42.5°	1505.9	1576.1	1660.4	1726.4	1747.5
45°	1427.2	1501.7	1593.0	1664.6	1684.3
47.5°	1344.3	1423.0	1521.3	1597.2	1619.7
50°	1255.8	1345.7	1451.1	1526.9	1548.0
52.5°	1173.0	1264.3	1375.2	1453.9	1483.4
55°	1085.9	1182.8	1296.6	1378.0	1406.1
57.5°	1004.4	1097.1	1219.3	1300.8	1335.9
60°	911.7	1014.2	1136.4	1224.9	1253.0
62.5°	824.6	928.5	1055.0	1146.3	1178.6
65°	734.7	840.0	970.7	1066.2	1095.7
67.5°	650.4	754.3	887.8	981.9	1019.8
70°	557.7	667.2	803.5	900.4	932.7
72.5°	466.4	580.2	719.2	823.2	859.7
75°	382.1	493.1	637.7	738.9	779.6
77.5°	300.6	413.0	559.1	663.0	698.2
80°	219.1	337.1	486.0	588.6	622.3
82.5°	144.7	268.3	415.8	518.3	554.9
85°	84.3	209.3	354.0	452.3	491.7
87.5°	36.5	158.7	296.4	393.3	425.6
90°	1.4	118.0	250.0	344.2	377.9
92.5°	1.4	115.2	244.4	337.1	369.4
95°	1.4	112.4	243.0	332.9	365.2
97.5°	1.4	111.0	240.2	330.1	361.0
100°	1.4	106.8	236.0	324.5	355.4
102.5°	1.4	101.1	231.8	318.9	348.4
105°	1.4	96.9	227.6	313.3	341.4
107.5°	1.4	92.7	220.5	306.2	334.3
110°	1.4	88.5	209.3	299.2	327.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	87.1	200.9	289.4	318.9
115°	2.8	84.3	192.4	278.1	309.0
117.5°	2.8	82.9	185.4	266.9	299.2
120°	2.8	78.7	178.4	257.1	288.0
122.5°	2.8	74.5	171.4	247.2	278.1
125°	2.8	71.6	164.4	237.4	266.9
127.5°	2.8	67.4	158.7	227.6	254.3
130°	2.8	64.6	151.7	216.3	243.0
132.5°	2.8	60.4	144.7	205.1	230.4
135°	2.8	56.2	137.7	195.3	219.1
137.5°	2.8	50.6	129.2	184.0	206.5
140°	2.8	46.4	118.0	172.8	193.9
142.5°	2.8	43.5	106.8	160.1	179.8
145°	2.8	40.7	95.5	147.5	165.8
147.5°	2.8	37.9	85.7	134.9	151.7
150°	2.8	33.7	75.9	123.6	137.7
152.5°	4.2	30.9	67.4	109.6	123.6
155°	4.2	28.1	59.0	94.1	109.6
157.5°	4.2	25.3	50.6	78.7	95.5
160°	4.2	22.5	43.5	64.6	81.5
162.5°	4.2	21.1	37.9	53.4	68.8
165°	4.2	18.3	32.3	43.5	56.2
167.5°	4.2	14.0	26.7	33.7	46.4
170°	4.2	11.2	21.1	23.9	35.1
172.5°	4.2	8.4	15.5	16.9	18.3
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)