

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: P566886

Luminaire Tested: **4SNX-84HL-SLW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566886
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-84HL-SLW-UNV-L830-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

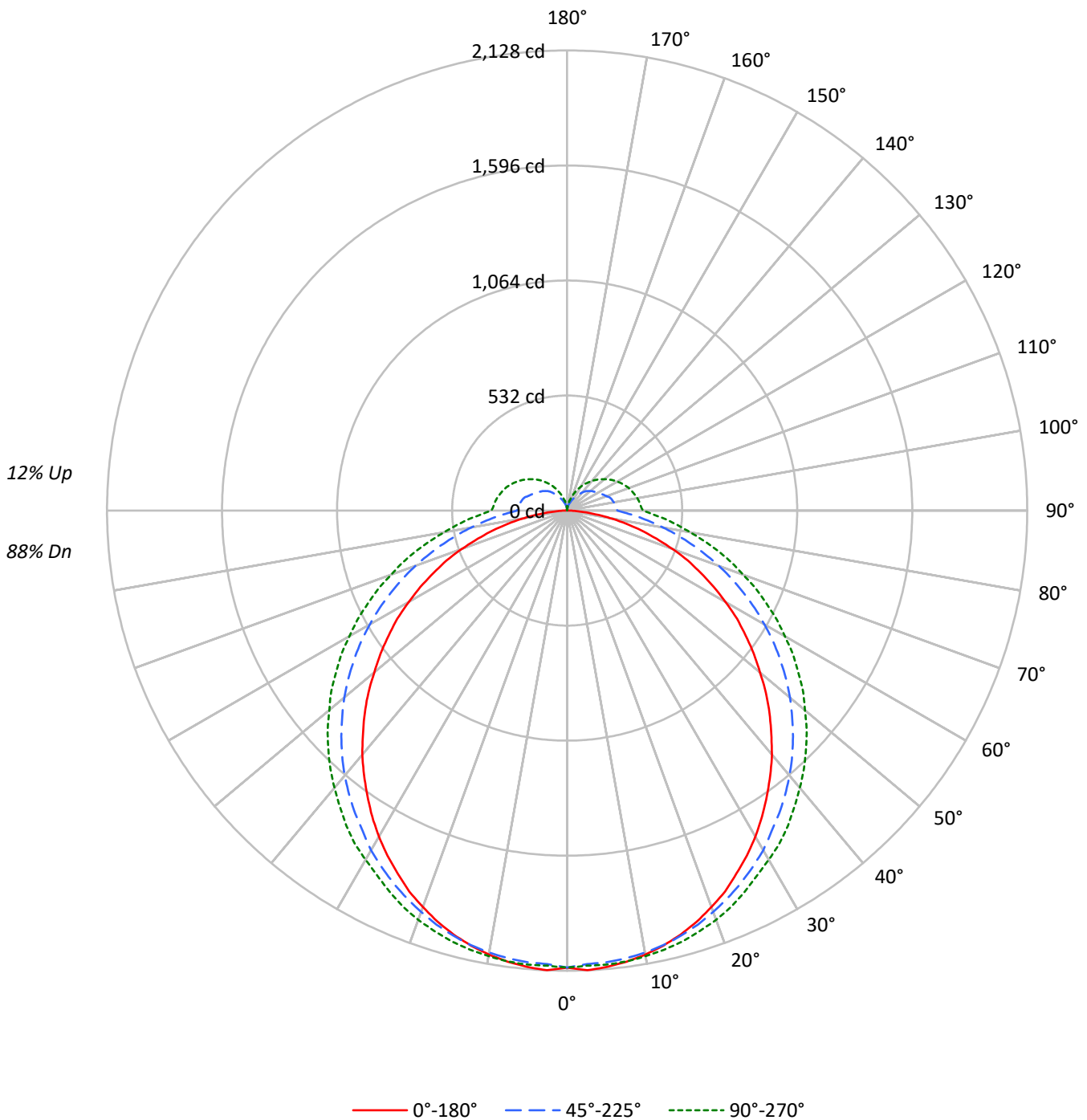
Lumens per Lamp: N/A
Luminaire Lumens: 7608.0 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 57.9
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°	22746	22746	22746
5°	22848	22167	22134
10°	22700	21728	21605
15°	22494	21257	21105
20°	22174	20741	20585
25°	21792	20223	19991
30°	21378	19704	19445
35°	20857	19121	18975
40°	20350	18590	18399
45°	19740	18000	17852
50°	19033	17372	17226
55°	18356	16639	16602
60°	17570	15845	15884
65°	16616	14939	15118
70°	15399	13916	14238
75°	13680	12740	13431
80°	11270	11573	12411
85°	7806	10529	11745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	2.6
10°-20°	577.1	7.6
20°-30°	877.9	11.5
30°-40°	1067.4	14.0
40°-50°	1129.3	14.8
50°-60°	1058.6	13.9
60°-70°	870.9	11.4
70°-80°	602.6	7.9
80°-90°	335.1	4.4
90°-100°	220.7	2.9
100°-110°	197.9	2.6
110°-120°	163.9	2.2
120°-130°	126.7	1.7
130°-140°	89.7	1.2
140°-150°	54.1	0.7
150°-160°	26.0	0.3
160°-170°	8.5	0.1
170°-180°	1.0	0.0
0°-30°	1655.6	21.8
0°-40°	2723.1	35.8
0°-60°	4911.0	64.6
0°-90°	6719.5	88.3
90°-120°	582.5	7.7
90°-150°	852.9	11.2
90°-180°	888.0	11.7
0°-180°	7608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2113	2113	2113	2113	2113	
5°	2118	2114	2096	2113	2108	201
15°	2030	2036	2035	2062	2062	572
25°	1853	1879	1901	1942	1944	854
35°	1610	1653	1709	1764	1780	1008
45°	1324	1393	1477	1544	1562	1020
55°	1007	1097	1202	1278	1304	902
65°	681	779	900	989	1016	676
75°	354	457	592	685	723	376
85°	78	194	328	420	456	90
90°	1	109	232	319	350	5
95°	1	104	225	309	339	1
105°	1	90	211	290	317	1
115°	3	78	178	258	287	2
125°	3	66	152	220	248	2
135°	3	52	128	181	203	2
145°	3	38	89	137	154	2
155°	4	26	55	87	102	2
165°	4	17	30	40	52	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°	2113.2	2113.2	2113.2	2113.2	2113.2
2.5°	2127.5	2121.0	2098.9	2113.2	2106.7
5°	2118.4	2114.5	2096.3	2113.2	2108.0
7.5°	2104.1	2102.8	2088.5	2108.0	2102.8
10°	2084.5	2087.2	2075.4	2096.3	2092.4
12.5°	2059.8	2063.7	2058.5	2081.9	2079.3
15°	2029.8	2036.3	2035.0	2062.4	2062.4
17.5°	1993.3	2002.5	2007.7	2038.9	2038.9
20°	1950.4	1964.7	1975.1	2009.0	2014.2
22.5°	1907.4	1924.3	1939.9	1975.1	1982.9
25°	1852.6	1878.7	1900.8	1942.5	1943.8
27.5°	1799.2	1827.9	1857.9	1898.2	1902.1
30°	1740.6	1777.1	1813.6	1852.6	1864.4
32.5°	1678.1	1718.4	1758.8	1810.9	1826.6
35°	1610.3	1653.3	1709.3	1764.0	1779.7
37.5°	1542.6	1590.8	1655.9	1711.9	1726.3
40°	1473.5	1526.9	1599.9	1657.2	1674.2
42.5°	1396.6	1461.8	1540.0	1601.2	1620.7
45°	1323.7	1392.7	1477.4	1543.9	1562.1
47.5°	1246.8	1319.8	1411.0	1481.3	1502.2
50°	1164.7	1248.1	1345.8	1416.2	1435.7
52.5°	1087.9	1172.6	1275.5	1348.4	1375.8
55°	1007.1	1097.0	1202.5	1278.1	1304.1
57.5°	931.5	1017.5	1130.9	1206.4	1239.0
60°	845.5	940.7	1054.0	1136.1	1162.1
62.5°	764.8	861.2	978.4	1063.1	1093.1
65°	681.4	779.1	900.3	988.9	1016.2
67.5°	603.2	699.6	823.4	910.7	945.9
70°	517.2	618.8	745.2	835.1	865.1
72.5°	432.5	538.1	667.1	763.5	797.3
75°	354.4	457.3	591.5	685.3	723.1
77.5°	278.8	383.0	518.5	614.9	647.5
80°	203.2	312.7	450.8	545.9	577.2
82.5°	134.2	248.8	385.6	480.7	514.6
85°	78.2	194.1	328.3	419.5	456.0
87.5°	33.9	147.2	274.9	364.8	394.8
90°	1.3	109.4	231.9	319.2	350.5
92.5°	1.3	106.8	226.7	312.7	342.6
95°	1.3	104.2	225.4	308.8	338.7
97.5°	1.3	102.9	222.8	306.2	334.8
100°	1.3	99.0	218.9	301.0	329.6
102.5°	1.3	93.8	215.0	295.7	323.1
105°	1.3	89.9	211.1	290.5	316.6
107.5°	1.3	86.0	204.5	284.0	310.1
110°	1.3	82.1	194.1	277.5	303.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	80.8	186.3	268.4	295.7
115°	2.6	78.2	178.5	258.0	286.6
117.5°	2.6	76.9	172.0	247.5	277.5
120°	2.6	73.0	165.5	238.4	267.1
122.5°	2.6	69.1	158.9	229.3	258.0
125°	2.6	66.4	152.4	220.2	247.5
127.5°	2.6	62.5	147.2	211.1	235.8
130°	2.6	59.9	140.7	200.6	225.4
132.5°	2.6	56.0	134.2	190.2	213.7
135°	2.6	52.1	127.7	181.1	203.2
137.5°	2.6	46.9	119.9	170.7	191.5
140°	2.6	43.0	109.4	160.2	179.8
142.5°	2.6	40.4	99.0	148.5	166.8
145°	2.6	37.8	88.6	136.8	153.7
147.5°	2.6	35.2	79.5	125.1	140.7
150°	2.6	31.3	70.4	114.7	127.7
152.5°	3.9	28.7	62.5	101.6	114.7
155°	3.9	26.1	54.7	87.3	101.6
157.5°	3.9	23.5	46.9	73.0	88.6
160°	3.9	20.8	40.4	59.9	75.6
162.5°	3.9	19.5	35.2	49.5	63.8
165°	3.9	16.9	30.0	40.4	52.1
167.5°	3.9	13.0	24.8	31.3	43.0
170°	3.9	10.4	19.5	22.1	32.6
172.5°	3.9	7.8	14.3	15.6	16.9
175°	3.9	6.5	9.1	9.1	5.2
177.5°	3.9	5.2	5.2	5.2	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)