

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: P566878

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566878
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-LW-UNV-L830-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

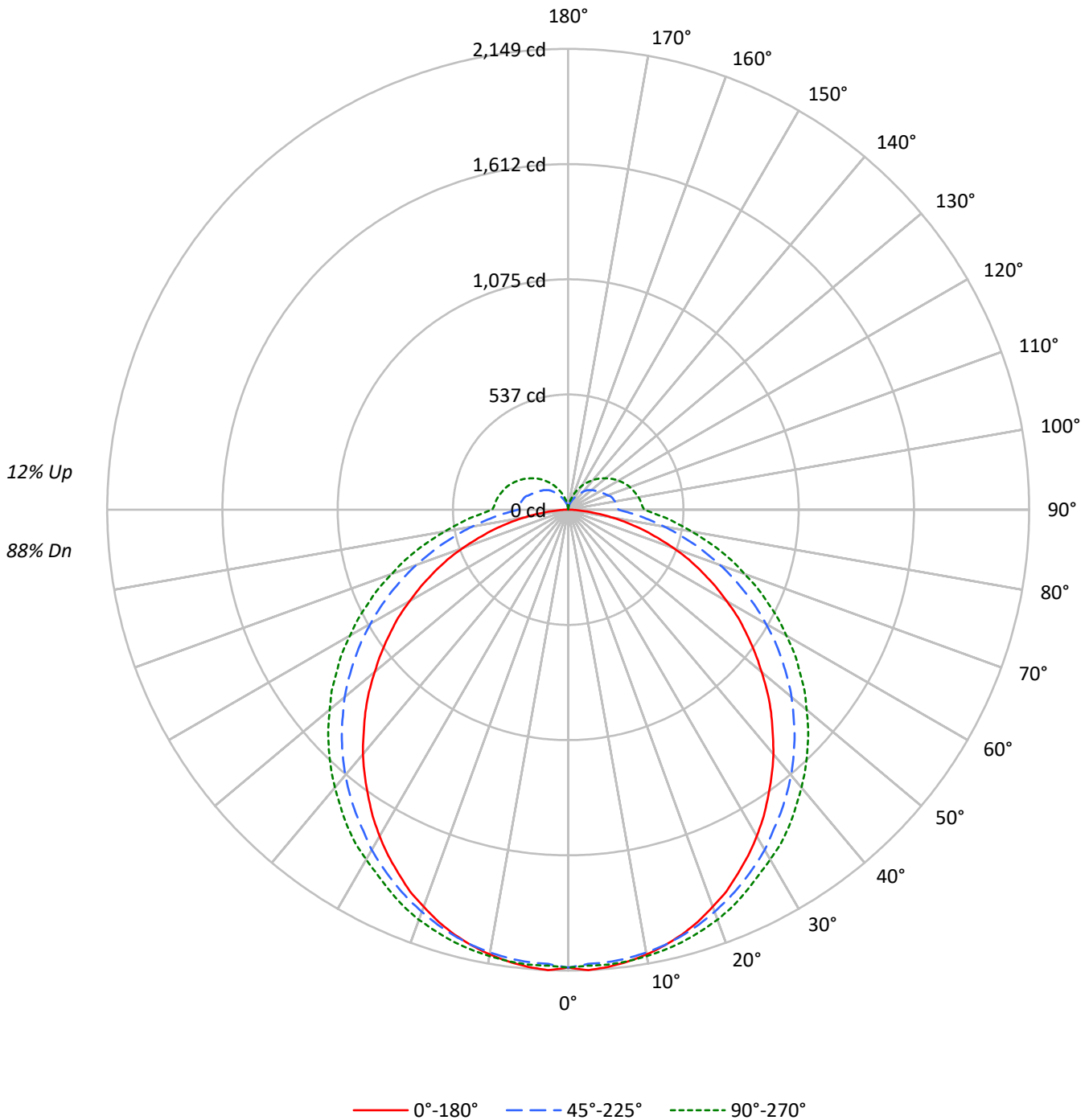
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7686.0 lumens
Efficiency: N/A
Efficacy: 132.7 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: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 57.9
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°	22980	22980	22980
5°	23040	21922	21742
10°	22850	21057	20674
15°	22599	20199	19699
20°	22232	19332	18757
25°	21805	18489	17792
30°	21342	17663	16904
35°	20771	16800	16106
40°	20210	15991	15240
45°	19543	15139	14413
50°	18772	14257	13535
55°	18020	13291	12666
60°	17151	12274	11729
65°	16095	11168	10761
70°	14755	9972	9714
75°	12885	8662	8710
80°	10293	7350	7560
85°	6609	6091	6600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.7	2.6
10°-20°	583.0	7.6
20°-30°	886.9	11.5
30°-40°	1078.4	14.0
40°-50°	1140.9	14.8
50°-60°	1069.5	13.9
60°-70°	879.8	11.4
70°-80°	608.8	7.9
80°-90°	338.5	4.4
90°-100°	223.0	2.9
100°-110°	200.0	2.6
110°-120°	165.5	2.2
120°-130°	128.0	1.7
130°-140°	90.6	1.2
140°-150°	54.6	0.7
150°-160°	26.2	0.3
160°-170°	8.6	0.1
170°-180°	1.0	0.0
0°-30°	1672.6	21.8
0°-40°	2751.0	35.8
0°-60°	4961.4	64.6
0°-90°	6788.5	88.3
90°-120°	588.5	7.7
90°-150°	861.7	11.2
90°-180°	898.0	11.7
0°-180°	7686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2135	2135	2135	2135	2135	
5°	2140	2136	2118	2135	2130	203
15°	2051	2057	2056	2084	2084	578
25°	1872	1898	1920	1962	1964	863
35°	1627	1670	1727	1782	1798	1018
45°	1337	1407	1493	1560	1578	1031
55°	1017	1108	1215	1291	1318	911
65°	688	787	910	999	1027	683
75°	358	462	598	692	730	380
85°	79	196	332	424	461	91
90°	1	111	234	322	354	5
95°	1	105	228	312	342	1
105°	1	91	213	294	320	1
115°	3	79	180	261	290	2
125°	3	67	154	222	250	2
135°	3	53	129	183	205	2
145°	3	38	90	138	155	2
155°	4	26	55	88	103	2
165°	4	17	30	41	53	1
175°	4	7	9	9	5	0
180°	3	3	3	3	3	



TEST NUMBER: P566878

CATALOG NUMBER: 4SNX-84HL-LW-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2134.9	2134.9	2134.9	2134.9	2134.9
2.5°	2149.4	2142.8	2120.4	2134.9	2128.3
5°	2140.1	2136.2	2117.8	2134.9	2129.6
7.5°	2125.7	2124.3	2109.9	2129.6	2124.3
10°	2105.9	2108.5	2096.7	2117.8	2113.8
12.5°	2080.9	2084.9	2079.6	2103.3	2100.7
15°	2050.6	2057.2	2055.9	2083.5	2083.5
17.5°	2013.8	2023.0	2028.3	2059.9	2059.9
20°	1970.3	1984.8	1995.4	2029.6	2034.8
22.5°	1926.9	1944.0	1959.8	1995.4	2003.3
25°	1871.6	1898.0	1920.3	1962.5	1963.8
27.5°	1817.7	1846.6	1876.9	1917.7	1921.6
30°	1758.4	1795.3	1832.1	1871.6	1883.5
32.5°	1695.3	1736.1	1776.9	1829.5	1845.3
35°	1626.8	1670.3	1726.9	1782.1	1797.9
37.5°	1558.4	1607.1	1672.9	1729.5	1744.0
40°	1488.6	1542.6	1616.3	1674.2	1691.3
42.5°	1411.0	1476.8	1555.7	1617.6	1637.4
45°	1337.3	1407.0	1492.6	1559.7	1578.1
47.5°	1259.6	1333.3	1425.4	1496.5	1517.6
50°	1176.7	1260.9	1359.6	1430.7	1450.5
52.5°	1099.0	1184.6	1288.6	1362.3	1389.9
55°	1017.4	1108.2	1214.9	1291.2	1317.5
57.5°	941.1	1028.0	1142.5	1218.8	1251.7
60°	854.2	950.3	1064.8	1147.7	1174.0
62.5°	772.6	870.0	988.5	1074.0	1104.3
65°	688.4	787.1	909.5	999.0	1026.6
67.5°	609.4	706.8	831.8	920.0	955.6
70°	522.5	625.2	752.9	843.7	874.0
72.5°	437.0	543.6	673.9	771.3	805.5
75°	358.0	462.0	597.6	692.3	730.5
77.5°	281.7	387.0	523.8	621.2	654.2
80°	205.3	315.9	455.4	551.5	583.1
82.5°	135.6	251.4	389.6	485.7	519.9
85°	79.0	196.1	331.7	423.8	460.7
87.5°	34.2	148.7	277.7	368.5	398.8
90°	1.3	110.6	234.3	322.5	354.1
92.5°	1.3	107.9	229.0	315.9	346.2
95°	1.3	105.3	227.7	311.9	342.2
97.5°	1.3	104.0	225.1	309.3	338.3
100°	1.3	100.0	221.1	304.0	333.0
102.5°	1.3	94.8	217.2	298.8	326.4
105°	1.3	90.8	213.2	293.5	319.8
107.5°	1.3	86.9	206.6	286.9	313.3
110°	1.3	82.9	196.1	280.4	306.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	81.6	188.2	271.1	298.8
115°	2.6	79.0	180.3	260.6	289.6
117.5°	2.6	77.7	173.7	250.1	280.4
120°	2.6	73.7	167.2	240.9	269.8
122.5°	2.6	69.8	160.6	231.7	260.6
125°	2.6	67.1	154.0	222.4	250.1
127.5°	2.6	63.2	148.7	213.2	238.2
130°	2.6	60.5	142.1	202.7	227.7
132.5°	2.6	56.6	135.6	192.2	215.9
135°	2.6	52.6	129.0	183.0	205.3
137.5°	2.6	47.4	121.1	172.4	193.5
140°	2.6	43.4	110.6	161.9	181.6
142.5°	2.6	40.8	100.0	150.0	168.5
145°	2.6	38.2	89.5	138.2	155.3
147.5°	2.6	35.5	80.3	126.4	142.1
150°	2.6	31.6	71.1	115.8	129.0
152.5°	3.9	29.0	63.2	102.7	115.8
155°	3.9	26.3	55.3	88.2	102.7
157.5°	3.9	23.7	47.4	73.7	89.5
160°	3.9	21.1	40.8	60.5	76.3
162.5°	3.9	19.7	35.5	50.0	64.5
165°	3.9	17.1	30.3	40.8	52.6
167.5°	3.9	13.2	25.0	31.6	43.4
170°	3.9	10.5	19.7	22.4	32.9
172.5°	3.9	7.9	14.5	15.8	17.1
175°	3.9	6.6	9.2	9.2	5.3
177.5°	3.9	5.3	5.3	5.3	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)