

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: P566830

Luminaire Tested: **4SNX-81HL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566830
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-LW-UNV-L830-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

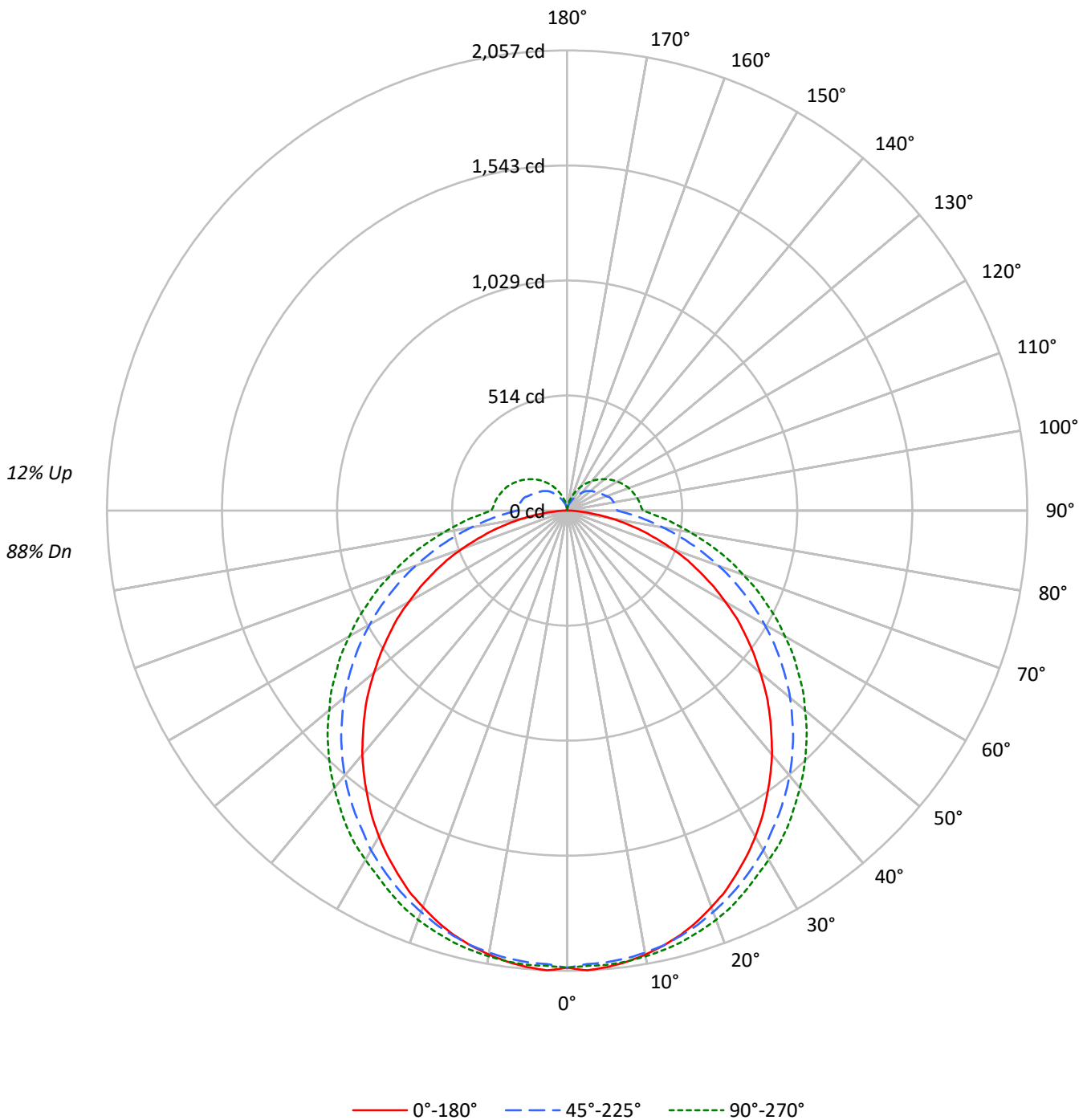
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7356.0 lumens
Efficiency: N/A
Efficacy: 133.5 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): 55.1
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°	21993	21993	21993
5°	22052	20980	20809
10°	21869	20153	19786
15°	21629	19332	18854
20°	21279	18502	17952
25°	20869	17695	17028
30°	20426	16906	16178
35°	19879	16078	15415
40°	19343	15304	14586
45°	18702	14488	13795
50°	17967	13646	12954
55°	17246	12720	12121
60°	16414	11748	11226
65°	15403	10688	10300
70°	14122	9543	9296
75°	12331	8289	8335
80°	9852	7035	7235
85°	6325	5829	6317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	2.6
10°-20°	558.0	7.6
20°-30°	848.8	11.5
30°-40°	1032.1	14.0
40°-50°	1091.9	14.8
50°-60°	1023.5	13.9
60°-70°	842.0	11.4
70°-80°	582.6	7.9
80°-90°	324.0	4.4
90°-100°	213.4	2.9
100°-110°	191.4	2.6
110°-120°	158.4	2.2
120°-130°	122.5	1.7
130°-140°	86.7	1.2
140°-150°	52.3	0.7
150°-160°	25.1	0.3
160°-170°	8.2	0.1
170°-180°	1.0	0.0
0°-30°	1600.8	21.8
0°-40°	2632.9	35.8
0°-60°	4748.4	64.6
0°-90°	6497.0	88.3
90°-120°	563.2	7.7
90°-150°	824.7	11.2
90°-180°	859.0	11.7
0°-180°	7356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2043	2043	2043	2043	2043	
5°	2048	2044	2027	2043	2038	194
15°	1963	1969	1968	1994	1994	553
25°	1791	1816	1838	1878	1880	826
35°	1557	1598	1653	1706	1721	974
45°	1280	1347	1428	1493	1510	986
55°	974	1061	1163	1236	1261	872
65°	659	753	870	956	983	653
75°	343	442	572	663	699	363
85°	76	188	317	406	441	87
90°	1	106	224	309	339	5
95°	1	101	218	298	328	1
105°	1	87	204	281	306	1
115°	2	76	173	249	277	2
125°	2	64	147	213	239	2
135°	2	50	123	175	196	2
145°	2	36	86	132	149	2
155°	4	25	53	84	98	2
165°	4	16	29	39	50	1
175°	4	6	9	9	5	0
180°	2	2	2	2	2	



TEST NUMBER: P566830

CATALOG NUMBER: 4SNX-81HL-LW-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2043.2	2043.2	2043.2	2043.2	2043.2
2.5°	2057.1	2050.8	2029.4	2043.2	2036.9
5°	2048.3	2044.5	2026.8	2043.2	2038.2
7.5°	2034.4	2033.1	2019.3	2038.2	2033.1
10°	2015.5	2018.0	2006.7	2026.8	2023.1
12.5°	1991.6	1995.3	1990.3	2013.0	2010.5
15°	1962.6	1968.9	1967.6	1994.1	1994.1
17.5°	1927.3	1936.1	1941.2	1971.4	1971.4
20°	1885.8	1899.6	1909.7	1942.4	1947.5
22.5°	1844.2	1860.6	1875.7	1909.7	1917.2
25°	1791.3	1816.5	1837.9	1878.2	1879.5
27.5°	1739.6	1767.3	1796.3	1835.4	1839.1
30°	1682.9	1718.2	1753.5	1791.3	1802.6
32.5°	1622.5	1661.5	1700.6	1751.0	1766.1
35°	1557.0	1598.5	1652.7	1705.6	1720.7
37.5°	1491.5	1538.1	1601.1	1655.2	1669.1
40°	1424.7	1476.4	1546.9	1602.3	1618.7
42.5°	1350.4	1413.4	1489.0	1548.2	1567.1
45°	1279.8	1346.6	1428.5	1492.7	1510.4
47.5°	1205.5	1276.1	1364.2	1432.3	1452.4
50°	1126.2	1206.8	1301.3	1369.3	1388.2
52.5°	1051.8	1133.7	1233.2	1303.8	1330.2
55°	973.7	1060.7	1162.7	1235.8	1260.9
57.5°	900.7	983.8	1093.4	1166.5	1198.0
60°	817.5	909.5	1019.1	1098.4	1123.6
62.5°	739.4	832.7	946.0	1027.9	1056.9
65°	658.8	753.3	870.4	956.1	982.6
67.5°	583.2	676.5	796.1	880.5	914.5
70°	500.1	598.4	720.5	807.5	836.4
72.5°	418.2	520.3	645.0	738.2	770.9
75°	342.6	442.2	571.9	662.6	699.1
77.5°	269.6	370.3	501.4	594.6	626.1
80°	196.5	302.3	435.9	527.8	558.0
82.5°	129.7	240.6	372.9	464.8	497.6
85°	75.6	187.7	317.4	405.6	440.9
87.5°	32.8	142.3	265.8	352.7	381.7
90°	1.3	105.8	224.2	308.6	338.9
92.5°	1.3	103.3	219.2	302.3	331.3
95°	1.3	100.8	217.9	298.5	327.5
97.5°	1.3	99.5	215.4	296.0	323.7
100°	1.3	95.7	211.6	291.0	318.7
102.5°	1.3	90.7	207.8	285.9	312.4
105°	1.3	86.9	204.1	280.9	306.1
107.5°	1.3	83.1	197.8	274.6	299.8
110°	1.3	79.4	187.7	268.3	293.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	78.1	180.1	259.5	285.9
115°	2.5	75.6	172.6	249.4	277.1
117.5°	2.5	74.3	166.3	239.3	268.3
120°	2.5	70.5	160.0	230.5	258.2
122.5°	2.5	66.8	153.7	221.7	249.4
125°	2.5	64.2	147.4	212.9	239.3
127.5°	2.5	60.5	142.3	204.1	228.0
130°	2.5	57.9	136.0	194.0	217.9
132.5°	2.5	54.2	129.7	183.9	206.6
135°	2.5	50.4	123.4	175.1	196.5
137.5°	2.5	45.3	115.9	165.0	185.2
140°	2.5	41.6	105.8	154.9	173.8
142.5°	2.5	39.1	95.7	143.6	161.2
145°	2.5	36.5	85.7	132.3	148.6
147.5°	2.5	34.0	76.8	120.9	136.0
150°	2.5	30.2	68.0	110.9	123.4
152.5°	3.8	27.7	60.5	98.3	110.9
155°	3.8	25.2	52.9	84.4	98.3
157.5°	3.8	22.7	45.3	70.5	85.7
160°	3.8	20.2	39.1	57.9	73.1
162.5°	3.8	18.9	34.0	47.9	61.7
165°	3.8	16.4	29.0	39.1	50.4
167.5°	3.8	12.6	23.9	30.2	41.6
170°	3.8	10.1	18.9	21.4	31.5
172.5°	3.8	7.6	13.9	15.1	16.4
175°	3.8	6.3	8.8	8.8	5.0
177.5°	3.8	5.0	5.0	5.0	2.5
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)