

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: P566833

Luminaire Tested: **4SNX-81HL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566833
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-L850-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

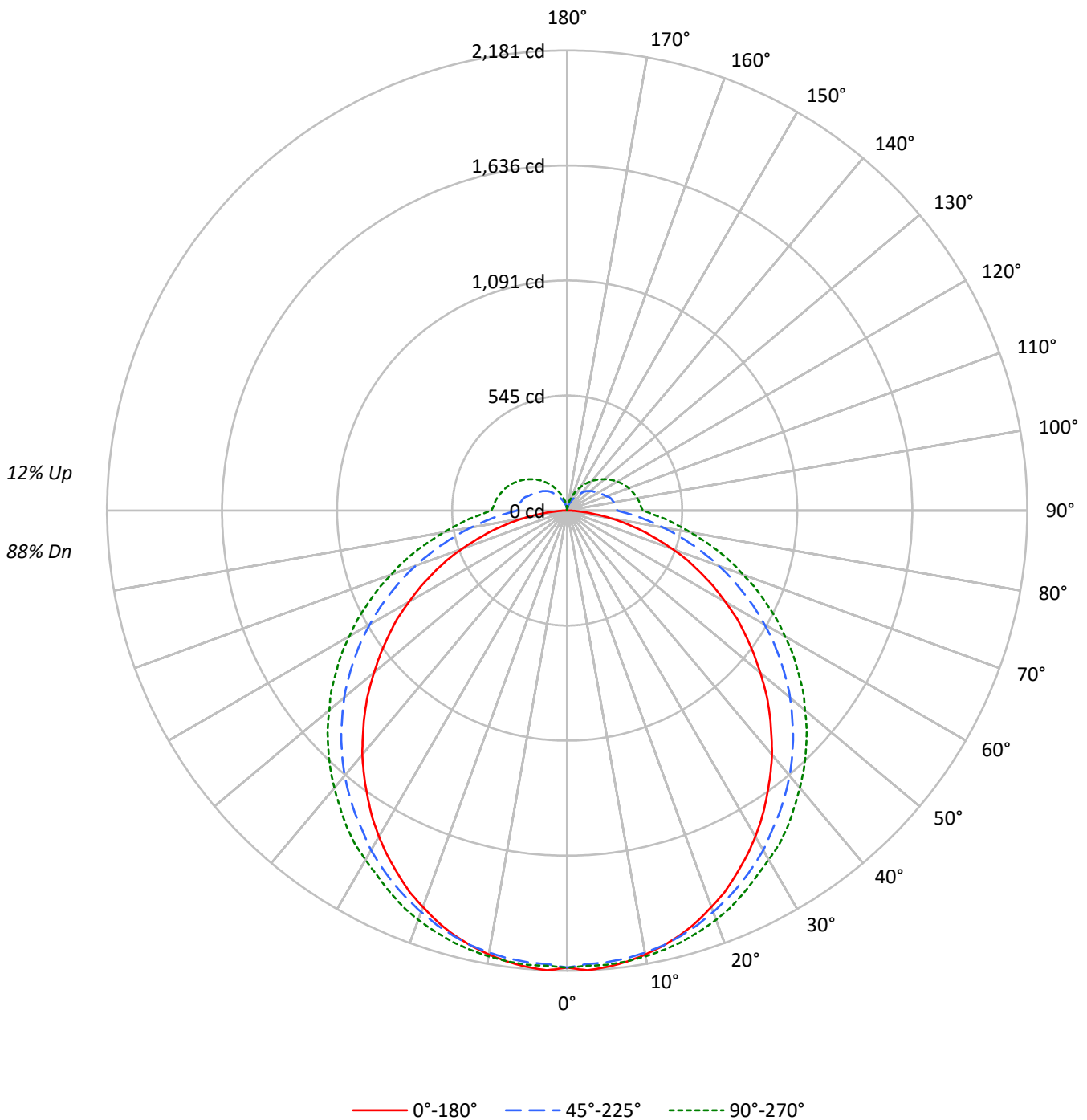
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7799.0 lumens
Efficiency: N/A
Efficacy: 141.5 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°	23318	23318	23318
5°	23379	22244	22062
10°	23186	21366	20978
15°	22932	20496	19989
20°	22559	19616	19033
25°	22126	18761	18053
30°	21656	17924	17152
35°	21076	17046	16344
40°	20507	16226	15464
45°	19829	15361	14625
50°	19048	14467	13734
55°	18286	13486	12852
60°	17404	12455	11902
65°	16331	11333	10920
70°	14972	10118	9856
75°	13076	8788	8837
80°	10444	7458	7670
85°	6701	6181	6696



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.7	2.6
10°-20°	591.6	7.6
20°-30°	900.0	11.5
30°-40°	1094.3	14.0
40°-50°	1157.7	14.8
50°-60°	1085.2	13.9
60°-70°	892.7	11.4
70°-80°	617.7	7.9
80°-90°	343.5	4.4
90°-100°	226.3	2.9
100°-110°	202.9	2.6
110°-120°	168.0	2.2
120°-130°	129.8	1.7
130°-140°	91.9	1.2
140°-150°	55.4	0.7
150°-160°	26.6	0.3
160°-170°	8.7	0.1
170°-180°	1.1	0.0
0°-30°	1697.2	21.8
0°-40°	2791.4	35.8
0°-60°	5034.3	64.6
0°-90°	6888.2	88.3
90°-120°	597.1	7.7
90°-150°	874.4	11.2
90°-180°	911.0	11.7
0°-180°	7799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2166	2166	2166	2166	2166	
5°	2172	2168	2149	2166	2161	206
15°	2081	2088	2086	2114	2114	586
25°	1899	1926	1949	1991	1993	875
35°	1651	1695	1752	1808	1824	1033
45°	1357	1428	1514	1583	1601	1046
55°	1032	1124	1233	1310	1337	924
65°	698	799	923	1014	1042	693
75°	363	469	606	702	741	385
85°	80	199	337	430	467	92
90°	1	112	238	327	359	5
95°	1	107	231	316	347	1
105°	1	92	216	298	324	1
115°	3	80	183	264	294	2
125°	3	68	156	226	254	2
135°	3	53	131	186	208	2
145°	3	39	91	140	158	2
155°	4	27	56	90	104	2
165°	4	17	31	41	53	1
175°	4	7	9	9	5	0
180°	3	3	3	3	3	



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CATALOG NUMBER: 4SNX-81HL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2166.3	2166.3	2166.3	2166.3	2166.3
2.5°	2181.0	2174.3	2151.6	2166.3	2159.6
5°	2171.6	2167.6	2148.9	2166.3	2160.9
7.5°	2156.9	2155.6	2140.9	2160.9	2155.6
10°	2136.9	2139.5	2127.5	2148.9	2144.9
12.5°	2111.5	2115.5	2110.2	2134.2	2131.5
15°	2080.8	2087.5	2086.1	2114.2	2114.2
17.5°	2043.4	2052.7	2058.1	2090.1	2090.1
20°	1999.3	2014.0	2024.7	2059.4	2064.8
22.5°	1955.2	1972.6	1988.6	2024.7	2032.7
25°	1899.2	1925.9	1948.6	1991.3	1992.6
27.5°	1844.4	1873.8	1904.5	1945.9	1949.9
30°	1784.3	1821.7	1859.1	1899.2	1911.2
32.5°	1720.2	1761.6	1803.0	1856.4	1872.4
35°	1650.7	1694.8	1752.2	1808.3	1824.4
37.5°	1581.3	1630.7	1697.5	1754.9	1769.6
40°	1510.5	1565.3	1640.1	1698.8	1716.2
42.5°	1431.7	1498.5	1578.6	1641.4	1661.4
45°	1356.9	1427.7	1514.5	1582.6	1601.3
47.5°	1278.1	1352.9	1446.4	1518.5	1539.9
50°	1194.0	1279.5	1379.6	1451.7	1471.8
52.5°	1115.2	1202.0	1307.5	1382.3	1410.3
55°	1032.4	1124.5	1232.7	1310.2	1336.9
57.5°	954.9	1043.1	1159.3	1236.7	1270.1
60°	866.8	964.3	1080.5	1164.6	1191.3
62.5°	784.0	882.8	1003.0	1089.8	1120.5
65°	698.5	798.7	922.9	1013.7	1041.7
67.5°	618.4	717.2	844.1	933.5	969.6
70°	530.2	634.4	763.9	856.1	886.8
72.5°	443.4	551.6	683.8	782.6	817.4
75°	363.3	468.8	606.3	702.5	741.2
77.5°	285.8	392.7	531.5	630.4	663.8
80°	208.3	320.5	462.1	559.6	591.6
82.5°	137.6	255.1	395.3	492.8	527.5
85°	80.1	199.0	336.6	430.0	467.4
87.5°	34.7	150.9	281.8	374.0	404.7
90°	1.3	112.2	237.7	327.2	359.3
92.5°	1.3	109.5	232.4	320.5	351.2
95°	1.3	106.8	231.0	316.5	347.2
97.5°	1.3	105.5	228.4	313.9	343.2
100°	1.3	101.5	224.4	308.5	337.9
102.5°	1.3	96.2	220.4	303.2	331.2
105°	1.3	92.2	216.4	297.8	324.5
107.5°	1.3	88.1	209.7	291.1	317.9
110°	1.3	84.1	199.0	284.5	311.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	82.8	191.0	275.1	303.2
115°	2.7	80.1	183.0	264.4	293.8
117.5°	2.7	78.8	176.3	253.8	284.5
120°	2.7	74.8	169.6	244.4	273.8
122.5°	2.7	70.8	162.9	235.1	264.4
125°	2.7	68.1	156.3	225.7	253.8
127.5°	2.7	64.1	150.9	216.4	241.7
130°	2.7	61.4	144.2	205.7	231.0
132.5°	2.7	57.4	137.6	195.0	219.0
135°	2.7	53.4	130.9	185.6	208.3
137.5°	2.7	48.1	122.9	175.0	196.3
140°	2.7	44.1	112.2	164.3	184.3
142.5°	2.7	41.4	101.5	152.3	171.0
145°	2.7	38.7	90.8	140.2	157.6
147.5°	2.7	36.1	81.5	128.2	144.2
150°	2.7	32.1	72.1	117.5	130.9
152.5°	4.0	29.4	64.1	104.2	117.5
155°	4.0	26.7	56.1	89.5	104.2
157.5°	4.0	24.0	48.1	74.8	90.8
160°	4.0	21.4	41.4	61.4	77.5
162.5°	4.0	20.0	36.1	50.8	65.4
165°	4.0	17.4	30.7	41.4	53.4
167.5°	4.0	13.4	25.4	32.1	44.1
170°	4.0	10.7	20.0	22.7	33.4
172.5°	4.0	8.0	14.7	16.0	17.4
175°	4.0	6.7	9.3	9.3	5.3
177.5°	4.0	5.3	5.3	5.3	2.7
180°	2.7	2.7	2.7	2.7	2.7

(END OF REPORT)