

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: P566837

Luminaire Tested: **4SNX-81HL-LW-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566837
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-L950-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

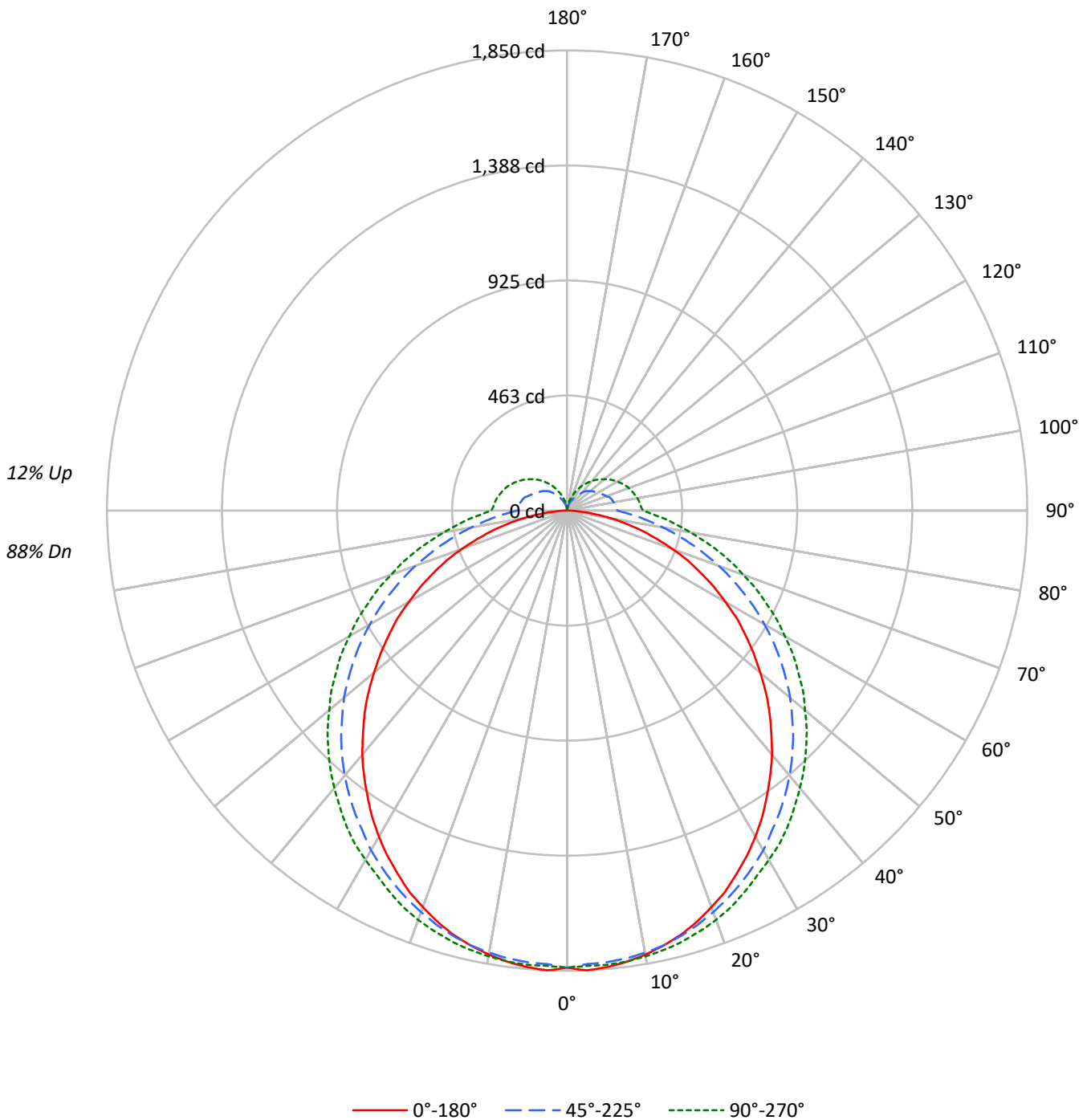
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6616.0 lumens
Efficiency: N/A
Efficacy: 120.1 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 (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°	19781	19781	19781
5°	19833	18870	18715
10°	19668	18126	17795
15°	19454	17387	16957
20°	19137	16641	16146
25°	18770	15915	15315
30°	18371	15205	14551
35°	17879	14460	13864
40°	17397	13765	13119
45°	16822	13031	12407
50°	16159	12273	11650
55°	15512	11440	10902
60°	14764	10566	10097
65°	13853	9614	9263
70°	12702	8584	8361
75°	11093	7456	7497
80°	8860	6327	6507
85°	5689	5243	5681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	2.6
10°-20°	501.8	7.6
20°-30°	763.4	11.5
30°-40°	928.3	14.0
40°-50°	982.1	14.8
50°-60°	920.6	13.9
60°-70°	757.3	11.4
70°-80°	524.0	7.9
80°-90°	291.4	4.4
90°-100°	191.9	2.9
100°-110°	172.1	2.6
110°-120°	142.5	2.2
120°-130°	110.1	1.7
130°-140°	78.0	1.2
140°-150°	47.0	0.7
150°-160°	22.6	0.3
160°-170°	7.4	0.1
170°-180°	0.9	0.0
0°-30°	1439.7	21.8
0°-40°	2368.0	35.8
0°-60°	4270.7	64.6
0°-90°	5843.4	88.3
90°-120°	506.6	7.7
90°-150°	741.7	11.2
90°-180°	773.0	11.7
0°-180°	6616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1842	1839	1823	1838	1833	175
15°	1765	1771	1770	1794	1794	498
25°	1611	1634	1653	1689	1690	743
35°	1400	1438	1486	1534	1548	876
45°	1151	1211	1285	1343	1358	887
55°	876	954	1046	1111	1134	784
65°	592	678	783	860	884	588
75°	308	398	514	596	629	327
85°	68	169	286	365	396	78
90°	1	95	202	278	305	4
95°	1	91	196	268	295	1
105°	1	78	184	253	275	1
115°	2	68	155	224	249	2
125°	2	58	133	192	215	2
135°	2	45	111	158	177	2
145°	2	33	77	119	134	1
155°	3	23	48	76	88	2
165°	3	15	26	35	45	1
175°	3	6	8	8	4	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	1850.1	1844.5	1825.2	1837.7	1832.0
5°	1842.2	1838.8	1822.9	1837.7	1833.1
7.5°	1829.7	1828.6	1816.1	1833.1	1828.6
10°	1812.7	1815.0	1804.8	1822.9	1819.5
12.5°	1791.2	1794.6	1790.1	1810.5	1808.2
15°	1765.2	1770.8	1769.7	1793.5	1793.5
17.5°	1733.4	1741.4	1745.9	1773.1	1773.1
20°	1696.0	1708.5	1717.6	1747.0	1751.6
22.5°	1658.7	1673.4	1687.0	1717.6	1724.4
25°	1611.1	1633.7	1653.0	1689.3	1690.4
27.5°	1564.6	1589.5	1615.6	1650.7	1654.1
30°	1513.6	1545.4	1577.1	1611.1	1621.3
32.5°	1459.3	1494.4	1529.5	1574.8	1588.4
35°	1400.3	1437.7	1486.4	1534.0	1547.6
37.5°	1341.4	1383.4	1440.0	1488.7	1501.2
40°	1281.4	1327.8	1391.3	1441.1	1455.9
42.5°	1214.5	1271.2	1339.2	1392.4	1409.4
45°	1151.1	1211.1	1284.8	1342.6	1358.4
47.5°	1084.2	1147.7	1227.0	1288.2	1306.3
50°	1012.9	1085.4	1170.4	1231.5	1248.5
52.5°	946.0	1019.7	1109.2	1172.6	1196.4
55°	875.8	954.0	1045.7	1111.4	1134.1
57.5°	810.1	884.8	983.4	1049.1	1077.4
60°	735.3	818.0	916.6	987.9	1010.6
62.5°	665.1	748.9	850.9	924.5	950.6
65°	592.5	677.5	782.9	859.9	883.7
67.5°	524.6	608.4	716.0	791.9	822.5
70°	449.8	538.2	648.1	726.2	752.3
72.5°	376.1	467.9	580.1	663.9	693.4
75°	308.2	397.7	514.4	595.9	628.8
77.5°	242.5	333.1	450.9	534.8	563.1
80°	176.7	271.9	392.0	474.7	501.9
82.5°	116.7	216.4	335.4	418.1	447.5
85°	68.0	168.8	285.5	364.8	396.5
87.5°	29.5	128.0	239.1	317.2	343.3
90°	1.1	95.2	201.7	277.6	304.8
92.5°	1.1	92.9	197.1	271.9	298.0
95°	1.1	90.6	196.0	268.5	294.6
97.5°	1.1	89.5	193.7	266.2	291.2
100°	1.1	86.1	190.3	261.7	286.6
102.5°	1.1	81.6	186.9	257.2	281.0
105°	1.1	78.2	183.5	252.7	275.3
107.5°	1.1	74.8	177.9	247.0	269.6
110°	1.1	71.4	168.8	241.3	264.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	70.2	162.0	233.4	257.2
115°	2.3	68.0	155.2	224.3	249.3
117.5°	2.3	66.8	149.6	215.3	241.3
120°	2.3	63.4	143.9	207.3	232.3
122.5°	2.3	60.0	138.2	199.4	224.3
125°	2.3	57.8	132.6	191.5	215.3
127.5°	2.3	54.4	128.0	183.5	205.1
130°	2.3	52.1	122.4	174.5	196.0
132.5°	2.3	48.7	116.7	165.4	185.8
135°	2.3	45.3	111.0	157.5	176.7
137.5°	2.3	40.8	104.2	148.4	166.5
140°	2.3	37.4	95.2	139.4	156.3
142.5°	2.3	35.1	86.1	129.2	145.0
145°	2.3	32.9	77.0	119.0	133.7
147.5°	2.3	30.6	69.1	108.8	122.4
150°	2.3	27.2	61.2	99.7	111.0
152.5°	3.4	24.9	54.4	88.4	99.7
155°	3.4	22.7	47.6	75.9	88.4
157.5°	3.4	20.4	40.8	63.4	77.0
160°	3.4	18.1	35.1	52.1	65.7
162.5°	3.4	17.0	30.6	43.1	55.5
165°	3.4	14.7	26.1	35.1	45.3
167.5°	3.4	11.3	21.5	27.2	37.4
170°	3.4	9.1	17.0	19.3	28.3
172.5°	3.4	6.8	12.5	13.6	14.7
175°	3.4	5.7	7.9	7.9	4.5
177.5°	3.4	4.5	4.5	4.5	2.3
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)