

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: P566829

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-81HL-LN-UNV-L950-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

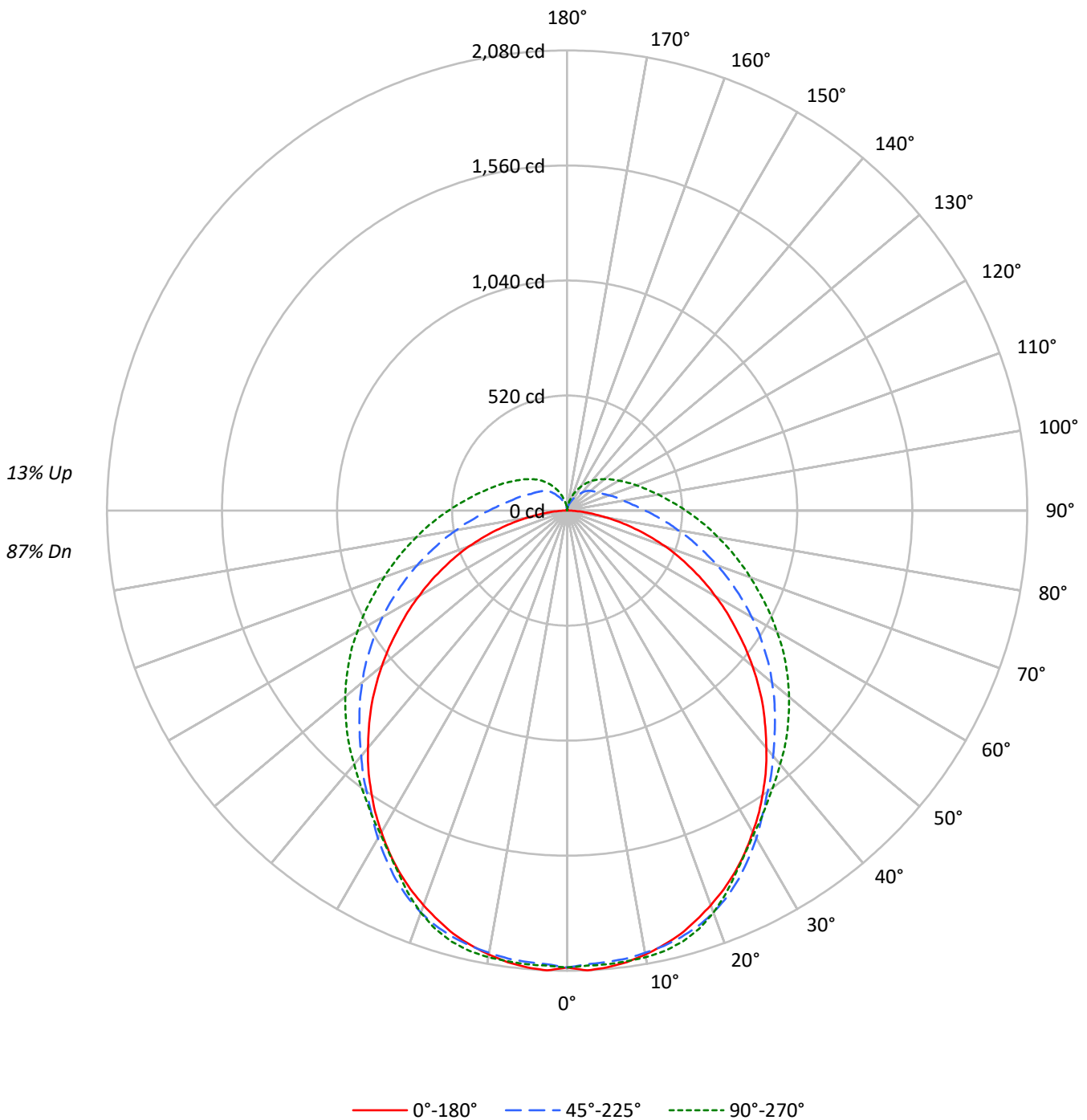
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7455.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
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	50	30	10	0	
RCR																						
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87				
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68				
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56				
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46				
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39				
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34				
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29				
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26				
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23				
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21				
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22230	22230	22230
5°	22315	21207	21020
10°	22106	20385	20050
15°	21841	19608	19071
20°	21420	18735	17825
25°	20968	17681	16363
30°	20371	16499	15143
35°	19735	15296	14232
40°	19013	14329	13495
45°	18303	13472	12860
50°	17461	12683	12219
55°	16476	11891	11591
60°	15531	11102	10935
65°	14479	10305	10334
70°	13278	9559	9790
75°	11417	8830	9343
80°	9000	8201	8963
85°	6023	7752	8747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.2	2.6
10°-20°	564.1	7.6
20°-30°	839.9	11.3
30°-40°	991.1	13.3
40°-50°	1033.6	13.9
50°-60°	971.3	13.0
60°-70°	820.3	11.0
70°-80°	619.8	8.3
80°-90°	427.2	5.7
90°-100°	299.0	4.0
100°-110°	223.1	3.0
110°-120°	168.2	2.3
120°-130°	125.4	1.7
130°-140°	88.0	1.2
140°-150°	53.2	0.7
150°-160°	25.5	0.3
160°-170°	8.2	0.1
170°-180°	1.0	0.0
0°-30°	1600.2	21.5
0°-40°	2591.3	34.8
0°-60°	4596.2	61.7
0°-90°	6463.4	86.7
90°-120°	690.3	9.3
90°-150°	957.0	12.8
90°-180°	992.0	13.3
0°-180°	7455.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2065	2065	2065	2065	2065	
5°	2073	2069	2049	2064	2059	197
15°	1982	1991	1996	2021	2017	558
25°	1800	1836	1836	1820	1806	828
35°	1546	1603	1572	1585	1589	967
45°	1252	1314	1328	1383	1408	965
55°	930	1010	1087	1174	1206	835
65°	619	718	839	949	986	615
75°	317	440	609	737	784	338
85°	72	226	422	561	610	81
90°	1	160	353	488	536	5
95°	1	125	298	427	471	1
105°	2	90	230	334	372	2
115°	2	77	178	265	300	3
125°	4	66	150	217	245	3
135°	4	51	125	177	198	3
145°	5	37	87	135	152	3
155°	5	24	53	86	100	2
165°	6	15	28	38	51	2
175°	6	6	8	8	4	1
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2065.2	2065.2	2065.2	2065.2	2065.2
2.5°	2080.3	2075.3	2052.5	2065.2	2058.9
5°	2072.8	2069.0	2048.7	2063.9	2058.9
7.5°	2058.9	2057.6	2042.4	2060.1	2055.1
10°	2037.4	2041.2	2029.8	2053.8	2050.0
12.5°	2012.1	2019.7	2015.9	2042.4	2038.6
15°	1981.8	1990.6	1995.7	2020.9	2017.1
17.5°	1941.3	1957.7	1969.1	1989.3	1983.0
20°	1898.3	1921.1	1933.7	1943.8	1933.7
22.5°	1851.6	1881.9	1889.5	1884.4	1874.3
25°	1799.8	1836.4	1836.4	1820.0	1806.1
27.5°	1741.6	1787.1	1774.5	1755.5	1744.1
30°	1678.4	1732.8	1711.3	1689.8	1687.3
32.5°	1615.2	1672.1	1640.5	1635.5	1639.2
35°	1545.7	1602.6	1572.3	1584.9	1588.7
37.5°	1476.2	1533.1	1512.9	1531.8	1543.2
40°	1400.4	1461.0	1448.4	1482.5	1497.7
42.5°	1325.8	1389.0	1387.7	1432.0	1454.7
45°	1252.5	1314.4	1328.3	1382.7	1408.0
47.5°	1172.9	1236.1	1270.2	1333.4	1358.7
50°	1094.5	1162.8	1209.5	1280.3	1309.4
52.5°	1013.6	1085.7	1150.1	1228.5	1258.8
55°	930.2	1009.8	1086.9	1174.1	1205.7
57.5°	855.6	936.5	1027.5	1117.3	1153.9
60°	773.5	863.2	963.1	1057.9	1094.5
62.5°	698.9	791.2	902.4	1002.3	1041.4
65°	619.3	717.9	839.2	949.2	985.8
67.5°	546.0	647.1	779.8	891.0	931.5
70°	470.2	577.6	721.7	839.2	880.9
72.5°	391.8	505.6	663.5	788.7	831.6
75°	317.2	439.8	609.2	736.8	783.6
77.5°	247.7	376.6	559.9	691.3	736.8
80°	179.5	319.8	508.1	644.6	691.3
82.5°	118.8	270.5	466.4	602.9	652.2
85°	72.0	226.2	422.1	561.2	610.5
87.5°	32.9	189.6	386.7	524.5	572.5
90°	1.3	160.5	352.6	487.9	535.9
92.5°	1.3	140.3	324.8	456.3	503.0
95°	1.3	125.1	298.3	427.2	471.4
97.5°	1.3	115.0	278.1	399.4	442.4
100°	1.3	104.9	257.8	374.1	418.3
102.5°	2.5	96.1	242.7	351.4	393.1
105°	2.5	89.7	230.0	333.7	371.6
107.5°	2.5	85.9	216.1	316.0	351.4
110°	2.5	82.2	201.0	298.3	333.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	79.6	189.6	283.1	317.2
115°	2.5	77.1	178.2	265.4	299.5
117.5°	2.5	75.8	171.9	251.5	284.4
120°	3.8	72.0	164.3	238.9	270.5
122.5°	3.8	68.2	156.7	228.8	256.6
125°	3.8	65.7	150.4	217.4	245.2
127.5°	3.8	61.9	144.1	207.3	232.6
130°	3.8	58.1	139.0	197.2	221.2
132.5°	3.8	54.3	132.7	187.1	209.8
135°	3.8	50.6	125.1	176.9	198.4
137.5°	3.8	46.8	117.5	166.8	187.1
140°	3.8	43.0	107.4	156.7	175.7
142.5°	3.8	39.2	97.3	146.6	163.0
145°	5.1	36.7	87.2	135.2	151.7
147.5°	5.1	32.9	77.1	123.9	137.8
150°	5.1	30.3	69.5	112.5	125.1
152.5°	5.1	26.5	61.9	99.8	112.5
155°	5.1	24.0	53.1	85.9	99.8
157.5°	5.1	21.5	45.5	72.0	87.2
160°	5.1	20.2	39.2	59.4	74.6
162.5°	6.3	17.7	32.9	48.0	61.9
165°	6.3	15.2	27.8	37.9	50.6
167.5°	6.3	12.6	22.7	29.1	39.2
170°	6.3	10.1	17.7	20.2	30.3
172.5°	6.3	7.6	12.6	13.9	15.2
175°	6.3	6.3	7.6	7.6	3.8
177.5°	6.3	6.3	5.1	3.8	1.3
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)