

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: P566813

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566813
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-FDL-UNV-L950-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

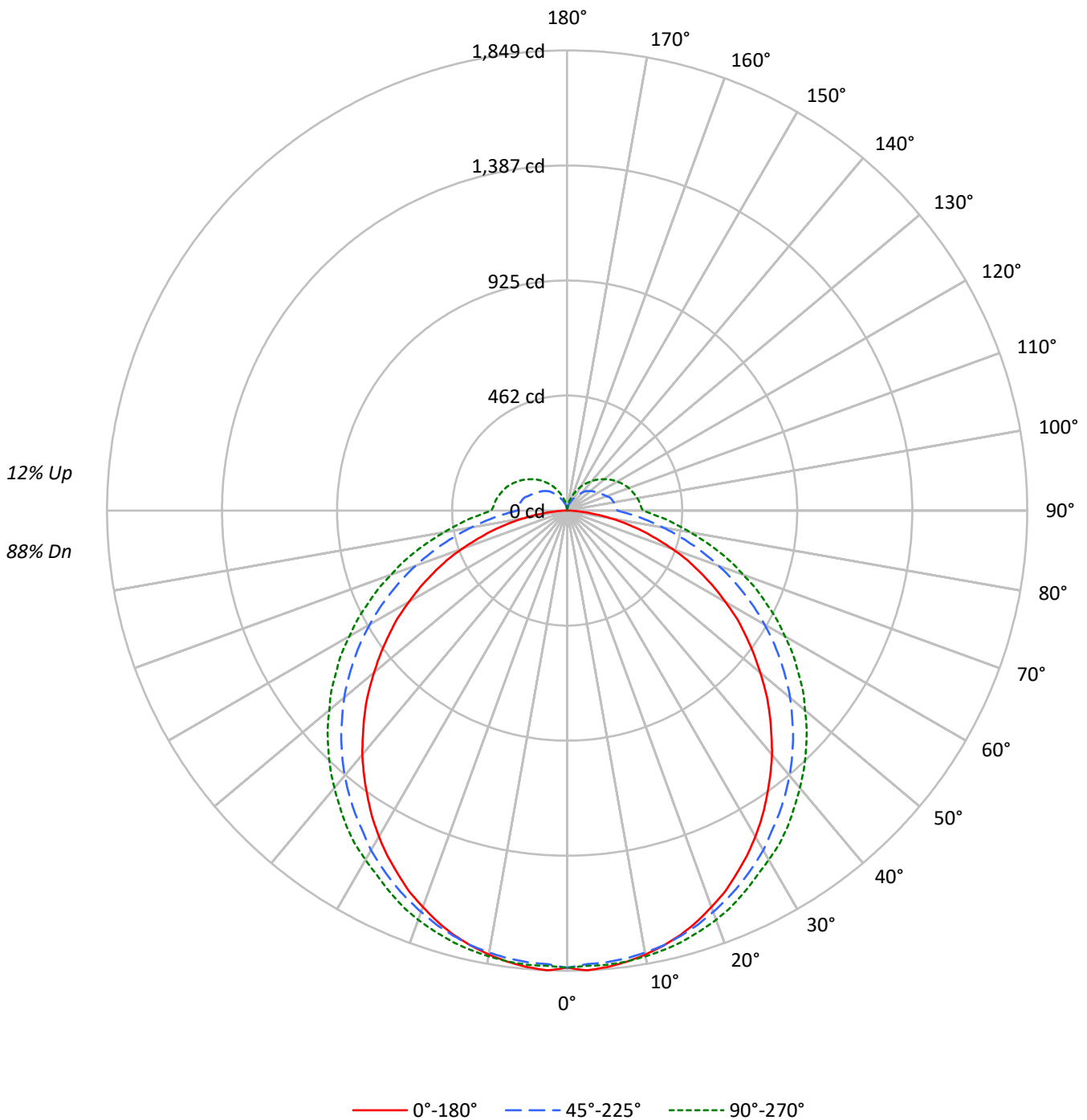
Lumens per Lamp: N/A
Luminaire Lumens: 6612.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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°	19769	19769	19769
5°	19875	19471	19510
10°	19764	19289	19308
15°	19604	19069	19120
20°	19342	18805	18905
25°	19030	18538	18618
30°	18689	18269	18371
35°	18257	17948	18200
40°	17838	17679	17936
45°	17331	17371	17714
50°	16744	17043	17433
55°	16185	16637	17180
60°	15538	16205	16872
65°	14754	15709	16572
70°	13753	15166	16229
75°	12330	14571	16112
80°	10336	14201	15984
85°	7494	14493	16848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	2.6
10°-20°	501.5	7.6
20°-30°	763.0	11.5
30°-40°	927.7	14.0
40°-50°	981.5	14.8
50°-60°	920.0	13.9
60°-70°	756.9	11.4
70°-80°	523.7	7.9
80°-90°	291.2	4.4
90°-100°	191.8	2.9
100°-110°	172.0	2.6
110°-120°	142.4	2.2
120°-130°	110.1	1.7
130°-140°	77.9	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°	1438.9	21.8
0°-40°	2366.6	35.8
0°-60°	4268.1	64.6
0°-90°	5839.8	88.3
90°-120°	506.2	7.7
90°-150°	741.3	11.2
90°-180°	772.0	11.7
0°-180°	6612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1837	1837	1837	1837	1837	
5°	1841	1838	1822	1837	1832	175
15°	1764	1770	1769	1792	1792	497
25°	1610	1633	1652	1688	1689	742
35°	1400	1437	1486	1533	1547	876
45°	1150	1210	1284	1342	1358	887
55°	875	953	1045	1111	1133	784
65°	592	677	782	859	883	587
75°	308	397	514	596	628	327
85°	68	169	285	365	396	78
90°	1	95	202	277	305	4
95°	1	91	196	268	294	1
105°	1	78	183	252	275	1
115°	2	68	155	224	249	2
125°	2	58	132	191	215	2
135°	2	45	111	157	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°	1836.6	1836.6	1836.6	1836.6	1836.6
2.5°	1849.0	1843.4	1824.1	1836.6	1830.9
5°	1841.1	1837.7	1821.8	1836.6	1832.0
7.5°	1828.6	1827.5	1815.0	1832.0	1827.5
10°	1811.6	1813.9	1803.7	1821.8	1818.4
12.5°	1790.1	1793.5	1789.0	1809.4	1807.1
15°	1764.1	1769.8	1768.6	1792.4	1792.4
17.5°	1732.4	1740.3	1744.8	1772.0	1772.0
20°	1695.0	1707.5	1716.5	1746.0	1750.5
22.5°	1657.7	1672.4	1686.0	1716.5	1723.3
25°	1610.1	1632.7	1652.0	1688.2	1689.4
27.5°	1563.7	1588.6	1614.6	1649.7	1653.1
30°	1512.7	1544.4	1576.1	1610.1	1620.3
32.5°	1458.4	1493.5	1528.6	1573.9	1587.5
35°	1399.5	1436.9	1485.6	1533.1	1546.7
37.5°	1340.6	1382.5	1439.1	1487.8	1500.3
40°	1280.6	1327.0	1390.4	1440.3	1455.0
42.5°	1213.8	1270.4	1338.4	1391.6	1408.6
45°	1150.4	1210.4	1284.0	1341.8	1357.6
47.5°	1083.6	1147.0	1226.3	1287.4	1305.5
50°	1012.3	1084.7	1169.6	1230.8	1247.8
52.5°	945.5	1019.1	1108.5	1171.9	1195.7
55°	875.3	953.4	1045.1	1110.8	1133.4
57.5°	809.6	884.3	982.8	1048.5	1076.8
60°	734.8	817.5	916.0	987.3	1010.0
62.5°	664.6	748.4	850.3	923.9	950.0
65°	592.2	677.1	782.4	859.4	883.2
67.5°	524.2	608.0	715.6	791.5	822.0
70°	449.5	537.8	647.7	725.8	751.8
72.5°	375.9	467.6	579.7	663.5	693.0
75°	308.0	397.4	514.1	595.6	628.4
77.5°	242.3	332.9	450.6	534.4	562.7
80°	176.6	271.7	391.8	474.4	501.6
82.5°	116.6	216.3	335.2	417.8	447.3
85°	67.9	168.7	285.3	364.6	396.3
87.5°	29.4	127.9	238.9	317.0	343.1
90°	1.1	95.1	201.5	277.4	304.6
92.5°	1.1	92.8	197.0	271.7	297.8
95°	1.1	90.6	195.9	268.4	294.4
97.5°	1.1	89.5	193.6	266.1	291.0
100°	1.1	86.1	190.2	261.6	286.5
102.5°	1.1	81.5	186.8	257.0	280.8
105°	1.1	78.1	183.4	252.5	275.1
107.5°	1.1	74.7	177.8	246.8	269.5
110°	1.1	71.3	168.7	241.2	263.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	70.2	161.9	233.2	257.0
115°	2.3	67.9	155.1	224.2	249.1
117.5°	2.3	66.8	149.5	215.1	241.2
120°	2.3	63.4	143.8	207.2	232.1
122.5°	2.3	60.0	138.1	199.3	224.2
125°	2.3	57.7	132.5	191.4	215.1
127.5°	2.3	54.3	127.9	183.4	204.9
130°	2.3	52.1	122.3	174.4	195.9
132.5°	2.3	48.7	116.6	165.3	185.7
135°	2.3	45.3	111.0	157.4	176.6
137.5°	2.3	40.8	104.2	148.3	166.4
140°	2.3	37.4	95.1	139.3	156.3
142.5°	2.3	35.1	86.1	129.1	144.9
145°	2.3	32.8	77.0	118.9	133.6
147.5°	2.3	30.6	69.1	108.7	122.3
150°	2.3	27.2	61.1	99.6	111.0
152.5°	3.4	24.9	54.3	88.3	99.6
155°	3.4	22.6	47.6	75.9	88.3
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	43.0	55.5
165°	3.4	14.7	26.0	35.1	45.3
167.5°	3.4	11.3	21.5	27.2	37.4
170°	3.4	9.1	17.0	19.2	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)