

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: P566005

Luminaire Tested: **4SNX-104HL-LC-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-104HL-LC-UNV-L950-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

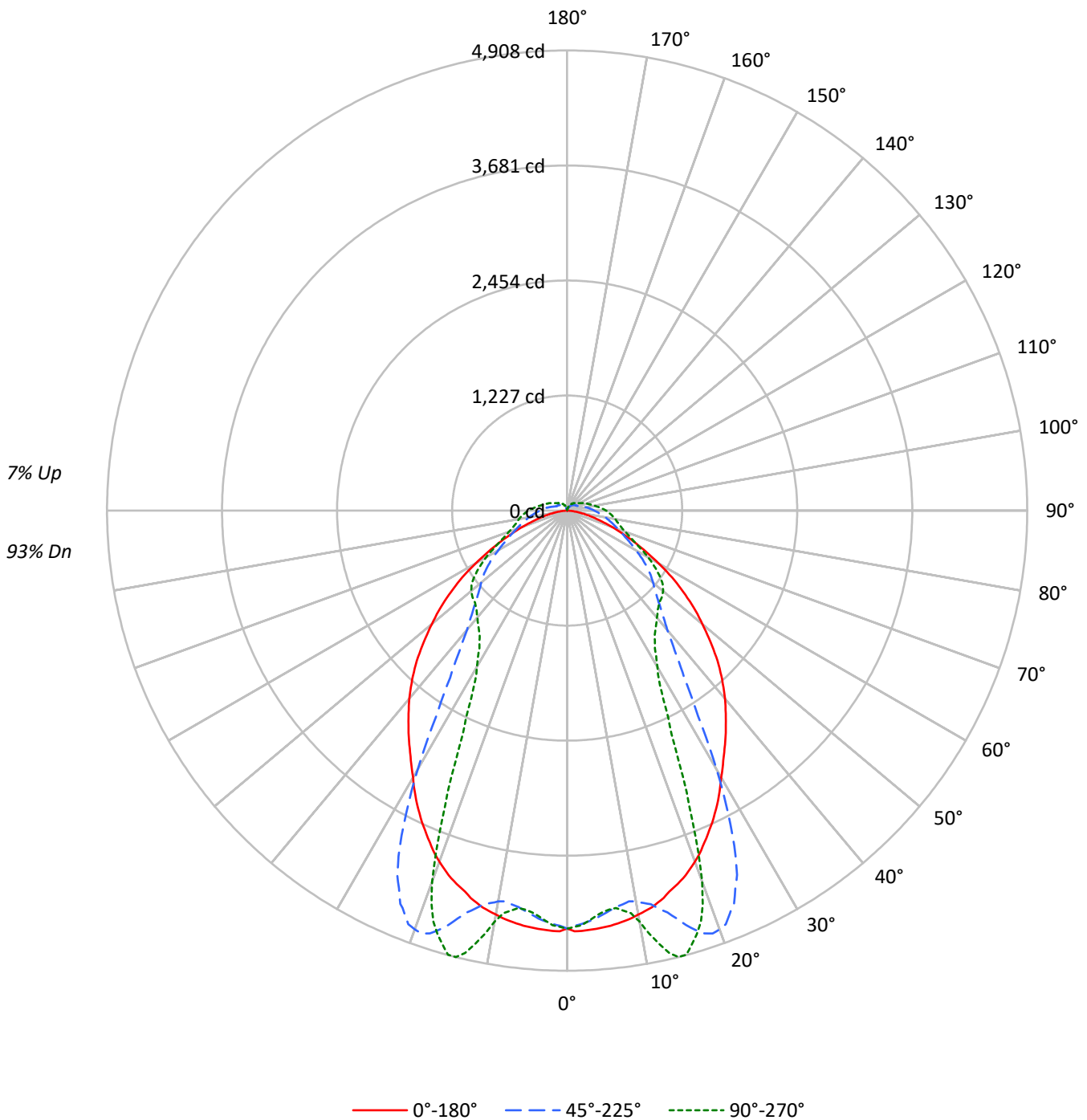
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9907.0 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 75.5
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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47982	47982	47982
5°	48039	44781	43920
10°	47464	42520	43552
15°	46359	44227	46365
20°	44956	46060	38804
25°	42700	41287	23860
30°	39893	30727	17267
35°	37602	21190	14567
40°	35548	16431	13425
45°	33157	13976	12696
50°	30044	12531	12463
55°	26765	11319	11531
60°	22566	9782	9974
65°	18213	8507	8324
70°	14139	7633	7330
75°	10780	7082	6835
80°	7355	6690	6767
85°	3798	6361	6718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.8	4.2
10°-20°	1267.5	12.8
20°-30°	1706.7	17.2
30°-40°	1615.2	16.3
40°-50°	1425.6	14.4
50°-60°	1157.9	11.7
60°-70°	787.5	7.9
70°-80°	506.7	5.1
80°-90°	337.0	3.4
90°-100°	231.6	2.3
100°-110°	155.4	1.6
110°-120°	109.6	1.1
120°-130°	78.3	0.8
130°-140°	55.3	0.6
140°-150°	34.3	0.3
150°-160°	16.7	0.2
160°-170°	5.9	0.1
170°-180°	1.0	0.0
0°-30°	3388.9	34.2
0°-40°	5004.1	50.5
0°-60°	7587.7	76.6
0°-90°	9218.9	93.1
90°-120°	496.6	5.0
90°-150°	664.5	6.7
90°-180°	688.0	6.9
0°-180°	9907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4458	4458	4458	4458	4458	
5°	4462	4421	4326	4323	4302	423
15°	4207	4179	4502	4899	4904	1186
25°	3665	4346	4288	3114	2634	1682
35°	2945	4132	2178	1678	1626	1843
45°	2269	2780	1378	1361	1390	1742
55°	1511	1644	1035	1156	1200	1350
65°	779	886	693	770	794	782
75°	300	419	489	548	573	326
85°	45	178	346	439	469	59
90°	2	124	289	389	414	3
95°	2	95	244	330	352	1
105°	3	67	160	225	253	3
115°	3	58	118	168	189	4
125°	4	48	101	127	136	4
135°	6	38	83	106	112	5
145°	6	27	59	82	89	4
155°	8	17	36	54	62	4
165°	8	11	20	27	33	2
175°	9	9	9	9	8	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4457.7	4457.7	4457.7	4457.7	4457.7
1°	4487.9	4474.3	4428.9	4453.1	4441.0
2°	4486.4	4463.7	4412.3	4439.5	4424.4
3°	4478.8	4454.6	4388.1	4404.7	4382.0
4°	4471.3	4442.5	4362.4	4362.4	4336.7
5°	4462.2	4421.4	4326.1	4323.0	4301.9
6°	4451.6	4404.7	4294.3	4291.3	4279.2
7°	4436.5	4376.0	4259.5	4280.7	4271.6
8°	4418.3	4348.8	4241.4	4294.3	4307.9
9°	4401.7	4315.5	4220.2	4336.7	4347.2
10°	4374.5	4285.2	4233.8	4421.4	4453.1
11°	4351.8	4259.5	4264.0	4504.6	4599.8
12°	4329.1	4232.3	4292.8	4608.9	4725.4
13°	4291.3	4211.1	4356.3	4722.4	4841.9
14°	4258.0	4194.5	4418.3	4837.3	4908.4
15°	4206.6	4179.3	4501.5	4899.3	4903.9
16°	4171.8	4168.8	4598.3	4903.9	4819.2
17°	4132.5	4164.2	4677.0	4825.2	4725.4
18°	4088.6	4173.3	4742.0	4726.9	4611.9
19°	4038.7	4182.4	4769.3	4590.8	4442.5
20°	3984.2	4196.0	4754.1	4448.6	4209.6
21°	3929.8	4214.1	4725.4	4298.8	3904.0
22.5°	3828.4	4258.0	4589.3	3878.3	3398.8
23°	3799.7	4267.1	4557.5	3746.7	3267.2
24°	3728.6	4304.9	4412.3	3439.7	2919.3
25°	3665.1	4345.7	4288.2	3114.5	2633.5
26°	3594.0	4376.0	4100.7	2815.0	2458.0
27°	3524.4	4394.1	3887.4	2582.0	2261.4
28°	3444.2	4413.8	3656.0	2380.8	2113.1
29°	3368.6	4416.8	3427.6	2220.5	1996.6
30°	3286.9	4401.7	3187.1	2091.9	1924.0
32.5°	3108.4	4318.5	2598.7	1846.9	1742.5
35°	2945.1	4132.5	2178.2	1677.5	1626.1
37.5°	2780.2	3839.0	1883.2	1571.6	1555.0
40°	2618.3	3491.1	1660.8	1486.9	1489.9
42.5°	2447.4	3132.6	1508.1	1417.3	1430.9
45°	2268.9	2780.2	1378.0	1361.3	1390.1
47.5°	2070.8	2458.0	1275.1	1325.0	1368.9
50°	1883.2	2138.8	1195.0	1290.3	1335.6
52.5°	1704.7	1877.1	1122.4	1231.3	1284.2
55°	1511.1	1644.2	1034.6	1155.6	1199.5
57.5°	1326.6	1434.0	942.4	1061.9	1101.2
60°	1123.9	1226.7	848.6	960.5	998.3
62.5°	940.8	1049.8	768.4	859.2	889.4
65°	779.0	886.4	692.8	769.9	794.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	635.3	750.3	630.8	695.8	718.5
70°	500.7	621.7	576.3	635.3	659.5
72.5°	391.8	514.3	530.9	585.4	609.6
75°	299.5	419.0	488.6	547.6	573.3
77.5°	222.4	341.8	449.2	517.3	544.5
80°	146.7	272.3	414.5	490.1	521.9
82.5°	92.3	219.3	379.7	462.9	496.1
85°	45.4	178.5	346.4	438.7	468.9
87.5°	15.1	148.2	316.1	414.5	440.2
90°	1.5	124.0	288.9	388.7	414.5
92.5°	1.5	107.4	266.2	358.5	384.2
95°	1.5	95.3	243.5	329.7	352.4
97.5°	1.5	86.2	222.4	299.5	323.7
100°	1.5	77.1	199.7	270.8	296.5
102.5°	3.0	71.1	180.0	246.6	273.8
105°	3.0	66.6	160.3	225.4	252.6
107.5°	3.0	63.5	143.7	208.7	234.5
110°	3.0	60.5	131.6	193.6	220.8
112.5°	3.0	59.0	124.0	180.0	205.7
115°	3.0	57.5	118.0	167.9	189.1
117.5°	4.5	56.0	113.4	155.8	172.4
120°	4.5	52.9	110.4	145.2	158.8
122.5°	4.5	49.9	105.9	136.1	146.7
125°	4.5	48.4	101.3	127.1	136.1
127.5°	4.5	45.4	96.8	119.5	128.6
130°	6.1	42.4	92.3	113.4	121.0
132.5°	6.1	39.3	87.7	110.4	116.5
135°	6.1	37.8	83.2	105.9	111.9
137.5°	6.1	34.8	78.7	101.3	107.4
140°	6.1	31.8	72.6	95.3	101.3
142.5°	6.1	30.3	66.6	89.2	95.3
145°	6.1	27.2	59.0	81.7	89.2
147.5°	7.6	25.7	52.9	75.6	81.7
150°	7.6	22.7	46.9	69.6	75.6
152.5°	7.6	19.7	40.8	62.0	68.1
155°	7.6	16.6	36.3	54.5	62.0
157.5°	7.6	15.1	31.8	45.4	54.5
160°	7.6	13.6	27.2	39.3	46.9
162.5°	7.6	12.1	24.2	33.3	40.8
165°	7.6	10.6	19.7	27.2	33.3
167.5°	9.1	10.6	16.6	21.2	27.2
170°	9.1	10.6	13.6	16.6	21.2
172.5°	9.1	9.1	10.6	12.1	13.6
175°	9.1	9.1	9.1	9.1	7.6
177.5°	9.1	9.1	9.1	7.6	7.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	7.6	7.6	7.6	7.6	7.6

(END OF REPORT)