

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: P566029

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566029
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-104HL-SLW-UNV-L950-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

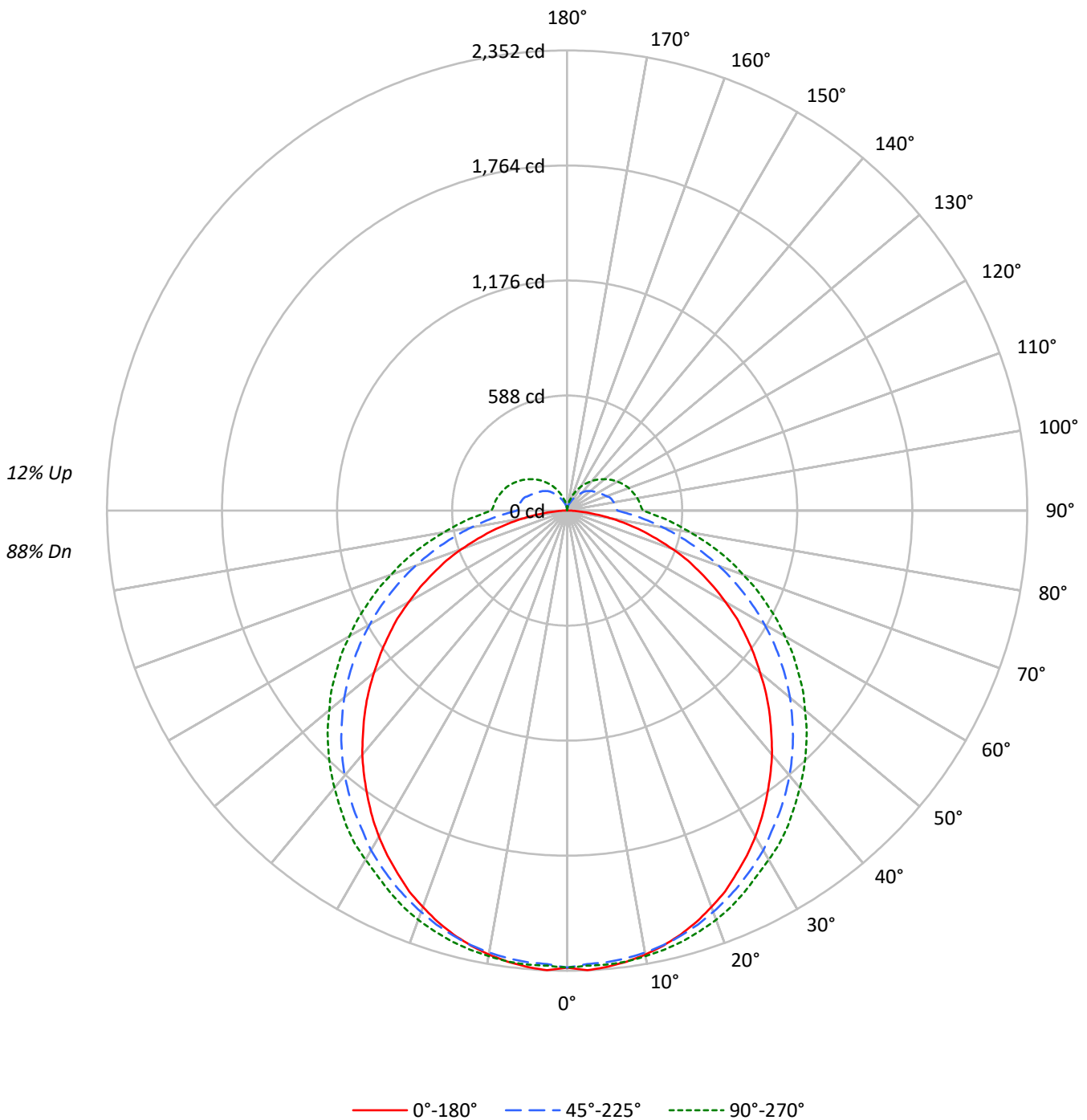
Lumens per Lamp: N/A
Luminaire Lumens: 8409.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 75.5
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°	25141	25141	25141
5°	25254	24501	24464
10°	25091	24016	23880
15°	24862	23495	23327
20°	24508	22925	22752
25°	24087	22353	22096
30°	23629	21778	21493
35°	23053	21135	20973
40°	22494	20547	20335
45°	21818	19896	19732
50°	21038	19201	19040
55°	20288	18391	18349
60°	19422	17514	17557
65°	18364	16511	16710
70°	17022	15382	15738
75°	15119	14082	14845
80°	12456	12790	13716
85°	8625	11638	12982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.7	2.6
10°-20°	637.8	7.6
20°-30°	970.3	11.5
30°-40°	1179.9	14.0
40°-50°	1248.2	14.8
50°-60°	1170.0	13.9
60°-70°	962.6	11.4
70°-80°	666.0	7.9
80°-90°	370.3	4.4
90°-100°	244.0	2.9
100°-110°	218.8	2.6
110°-120°	181.1	2.2
120°-130°	140.0	1.7
130°-140°	99.1	1.2
140°-150°	59.8	0.7
150°-160°	28.7	0.3
160°-170°	9.4	0.1
170°-180°	1.1	0.0
0°-30°	1829.9	21.8
0°-40°	3009.8	35.8
0°-60°	5428.1	64.6
0°-90°	7427.0	88.3
90°-120°	643.8	7.7
90°-150°	942.7	11.2
90°-180°	982.0	11.7
0°-180°	8409.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2336	2336	2336	2336	2336	
5°	2342	2337	2317	2336	2330	222
15°	2244	2251	2249	2280	2280	632
25°	2048	2076	2101	2147	2148	944
35°	1780	1827	1889	1950	1967	1114
45°	1463	1539	1633	1706	1727	1128
55°	1113	1212	1329	1413	1441	996
65°	753	861	995	1093	1123	747
75°	392	505	654	757	799	416
85°	86	215	363	464	504	99
90°	1	121	256	353	387	6
95°	1	115	249	341	374	1
105°	1	99	233	321	350	1
115°	3	86	197	285	317	2
125°	3	73	168	243	274	3
135°	3	58	141	200	225	2
145°	3	42	98	151	170	2
155°	4	29	60	96	112	2
165°	4	19	33	45	58	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2335.7	2335.7	2335.7	2335.7	2335.7
2.5°	2351.5	2344.3	2319.9	2335.7	2328.5
5°	2341.5	2337.1	2317.0	2335.7	2329.9
7.5°	2325.6	2324.2	2308.3	2329.9	2324.2
10°	2304.0	2306.9	2293.9	2317.0	2312.7
12.5°	2276.7	2281.0	2275.2	2301.1	2298.3
15°	2243.5	2250.7	2249.3	2279.5	2279.5
17.5°	2203.2	2213.3	2219.1	2253.6	2253.6
20°	2155.7	2171.5	2183.1	2220.5	2226.3
22.5°	2108.2	2126.9	2144.2	2183.1	2191.7
25°	2047.7	2076.5	2101.0	2147.1	2148.5
27.5°	1988.7	2020.3	2053.5	2098.1	2102.4
30°	1923.9	1964.2	2004.5	2047.7	2060.7
32.5°	1854.7	1899.4	1944.0	2001.6	2018.9
35°	1779.9	1827.4	1889.3	1949.8	1967.1
37.5°	1705.0	1758.3	1830.3	1892.2	1908.0
40°	1628.7	1687.7	1768.3	1831.7	1850.4
42.5°	1543.7	1615.7	1702.1	1769.8	1791.4
45°	1463.0	1539.4	1633.0	1706.4	1726.6
47.5°	1378.1	1458.7	1559.5	1637.3	1660.3
50°	1287.4	1379.5	1487.5	1565.3	1586.9
52.5°	1202.4	1296.0	1409.8	1490.4	1520.6
55°	1113.1	1212.5	1329.1	1412.6	1441.4
57.5°	1029.6	1124.6	1249.9	1333.4	1369.4
60°	934.6	1039.7	1165.0	1255.7	1284.5
62.5°	845.3	951.8	1081.4	1175.0	1208.2
65°	753.1	861.1	995.0	1093.0	1123.2
67.5°	666.7	773.3	910.1	1006.6	1045.4
70°	571.7	684.0	823.7	923.0	956.2
72.5°	478.1	594.7	737.3	843.8	881.3
75°	391.7	505.4	653.8	757.4	799.2
77.5°	308.2	423.4	573.1	679.7	715.7
80°	224.6	345.6	498.2	603.4	637.9
82.5°	148.3	275.0	426.2	531.4	568.8
85°	86.4	214.6	362.9	463.7	504.0
87.5°	37.4	162.7	303.8	403.2	436.3
90°	1.4	121.0	256.3	352.8	387.4
92.5°	1.4	118.1	250.6	345.6	378.7
95°	1.4	115.2	249.1	341.3	374.4
97.5°	1.4	113.8	246.2	338.4	370.1
100°	1.4	109.4	241.9	332.6	364.3
102.5°	1.4	103.7	237.6	326.9	357.1
105°	1.4	99.4	233.3	321.1	349.9
107.5°	1.4	95.0	226.1	313.9	342.7
110°	1.4	90.7	214.6	306.7	335.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	89.3	205.9	296.6	326.9
115°	2.9	86.4	197.3	285.1	316.8
117.5°	2.9	85.0	190.1	273.6	306.7
120°	2.9	80.6	182.9	263.5	295.2
122.5°	2.9	76.3	175.7	253.4	285.1
125°	2.9	73.4	168.5	243.4	273.6
127.5°	2.9	69.1	162.7	233.3	260.6
130°	2.9	66.2	155.5	221.8	249.1
132.5°	2.9	61.9	148.3	210.2	236.2
135°	2.9	57.6	141.1	200.2	224.6
137.5°	2.9	51.8	132.5	188.6	211.7
140°	2.9	47.5	121.0	177.1	198.7
142.5°	2.9	44.6	109.4	164.2	184.3
145°	2.9	41.8	97.9	151.2	169.9
147.5°	2.9	38.9	87.8	138.2	155.5
150°	2.9	34.6	77.8	126.7	141.1
152.5°	4.3	31.7	69.1	112.3	126.7
155°	4.3	28.8	60.5	96.5	112.3
157.5°	4.3	25.9	51.8	80.6	97.9
160°	4.3	23.0	44.6	66.2	83.5
162.5°	4.3	21.6	38.9	54.7	70.6
165°	4.3	18.7	33.1	44.6	57.6
167.5°	4.3	14.4	27.4	34.6	47.5
170°	4.3	11.5	21.6	24.5	36.0
172.5°	4.3	8.6	15.8	17.3	18.7
175°	4.3	7.2	10.1	10.1	5.8
177.5°	4.3	5.8	5.8	5.8	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)