

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: P566028

Luminaire Tested: **4SNX-104HL-SLW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566028
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-L940-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

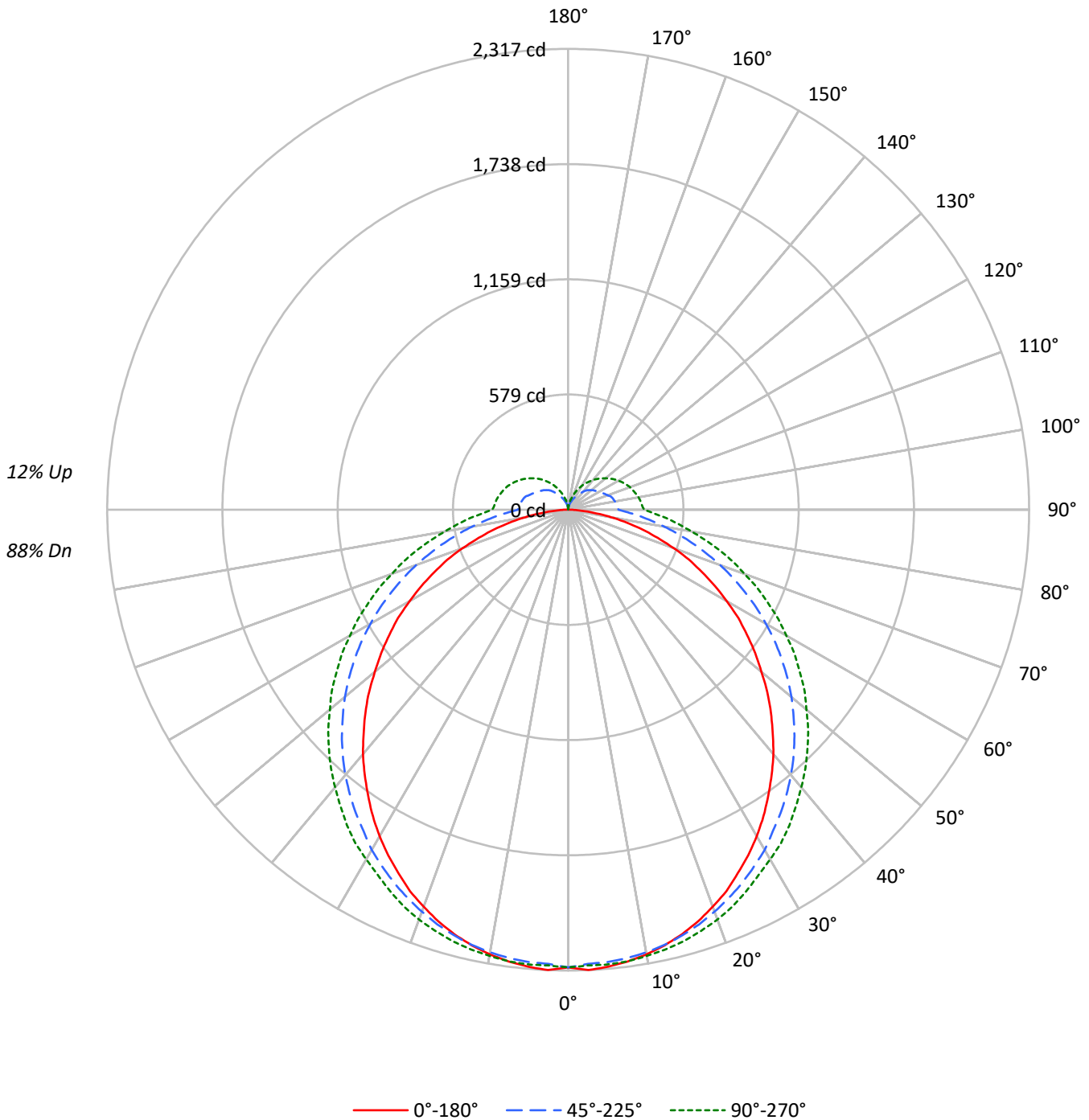
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8284.0 lumens
Efficiency: N/A
Efficacy: 109.7 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 (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

TEST NUMBER: P566028
CATALOG NUMBER: 4SNX-104HL-SLW-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566028

CATALOG NUMBER: 4SNX-104HL-SLW-UNV-L940-CD

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°	24768	24768	24768
5°	24878	24136	24101
10°	24718	23659	23525
15°	24493	23146	22980
20°	24143	22584	22414
25°	23729	22020	21768
30°	23278	21454	21173
35°	22710	20820	20660
40°	22158	20241	20033
45°	21494	19600	19438
50°	20724	18916	18757
55°	19987	18118	18077
60°	19133	17253	17296
65°	18091	16267	16462
70°	16769	15152	15504
75°	14896	13871	14624
80°	12273	12600	13512
85°	8495	11465	12789



TEST NUMBER: P566028

CATALOG NUMBER: 4SNX-104HL-SLW-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	2.6
10°-20°	628.4	7.6
20°-30°	955.9	11.5
30°-40°	1162.3	14.0
40°-50°	1229.7	14.8
50°-60°	1152.7	13.9
60°-70°	948.3	11.4
70°-80°	656.1	7.9
80°-90°	364.8	4.4
90°-100°	240.4	2.9
100°-110°	215.5	2.6
110°-120°	178.4	2.2
120°-130°	137.9	1.7
130°-140°	97.6	1.2
140°-150°	58.9	0.7
150°-160°	28.3	0.3
160°-170°	9.3	0.1
170°-180°	1.1	0.0
0°-30°	1802.7	21.8
0°-40°	2965.0	35.8
0°-60°	5347.4	64.6
0°-90°	7316.6	88.3
90°-120°	634.3	7.7
90°-150°	928.7	11.2
90°-180°	967.0	11.7
0°-180°	8284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2301	2301	2301	2301	2301	
5°	2307	2302	2282	2301	2295	219
15°	2210	2217	2216	2246	2246	623
25°	2017	2046	2070	2115	2117	930
35°	1753	1800	1861	1921	1938	1097
45°	1441	1516	1609	1681	1701	1111
55°	1097	1194	1309	1392	1420	982
65°	742	848	980	1077	1106	736
75°	386	498	644	746	787	409
85°	85	211	358	457	496	98
90°	1	119	252	348	382	6
95°	1	114	245	336	369	1
105°	1	98	230	316	345	1
115°	3	85	194	281	312	2
125°	3	72	166	240	270	3
135°	3	57	139	197	221	2
145°	3	41	96	149	167	2
155°	4	28	60	95	111	2
165°	4	18	33	44	57	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



TEST NUMBER: P566028

CATALOG NUMBER: 4SNX-104HL-SLW-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2301.0	2301.0	2301.0	2301.0	2301.0
2.5°	2316.6	2309.5	2285.4	2301.0	2293.9
5°	2306.6	2302.4	2282.5	2301.0	2295.3
7.5°	2291.0	2289.6	2274.0	2295.3	2289.6
10°	2269.8	2272.6	2259.8	2282.5	2278.3
12.5°	2242.8	2247.1	2241.4	2266.9	2264.1
15°	2210.2	2217.3	2215.9	2245.6	2245.6
17.5°	2170.5	2180.4	2186.1	2220.1	2220.1
20°	2123.6	2139.3	2150.6	2187.5	2193.2
22.5°	2076.8	2095.3	2112.3	2150.6	2159.1
25°	2017.3	2045.6	2069.7	2115.1	2116.6
27.5°	1959.1	1990.3	2022.9	2066.9	2071.2
30°	1895.3	1935.0	1974.7	2017.3	2030.0
32.5°	1827.2	1871.1	1915.1	1971.9	1988.9
35°	1753.4	1800.2	1861.2	1920.8	1937.8
37.5°	1679.6	1732.1	1803.0	1864.0	1879.6
40°	1604.4	1662.6	1742.0	1804.5	1822.9
42.5°	1520.7	1591.7	1676.8	1743.5	1764.7
45°	1441.3	1516.5	1608.7	1681.0	1700.9
47.5°	1357.6	1437.0	1536.3	1613.0	1635.6
50°	1268.2	1359.0	1465.4	1542.0	1563.3
52.5°	1184.5	1276.7	1388.8	1468.3	1498.0
55°	1096.6	1194.5	1309.4	1391.7	1420.0
57.5°	1014.3	1107.9	1231.3	1313.6	1349.1
60°	920.7	1024.2	1147.7	1237.0	1265.4
62.5°	832.7	937.7	1065.4	1157.6	1190.2
65°	741.9	848.3	980.3	1076.7	1106.5
67.5°	656.8	761.8	896.6	991.6	1029.9
70°	563.2	673.8	811.4	909.3	942.0
72.5°	471.0	585.9	726.3	831.3	868.2
75°	385.9	497.9	644.0	746.2	787.3
77.5°	303.6	417.1	564.6	669.6	705.0
80°	221.3	340.5	490.8	594.4	628.4
82.5°	146.1	271.0	419.9	523.5	560.3
85°	85.1	211.4	357.5	456.8	496.5
87.5°	36.9	160.3	299.3	397.2	429.8
90°	1.4	119.2	252.5	347.6	381.6
92.5°	1.4	116.3	246.8	340.5	373.1
95°	1.4	113.5	245.4	336.2	368.8
97.5°	1.4	112.1	242.6	333.4	364.6
100°	1.4	107.8	238.3	327.7	358.9
102.5°	1.4	102.1	234.1	322.0	351.8
105°	1.4	97.9	229.8	316.3	344.7
107.5°	1.4	93.6	222.7	309.3	337.6
110°	1.4	89.4	211.4	302.2	330.5



TEST NUMBER: P566028

CATALOG NUMBER: 4SNX-104HL-SLW-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	88.0	202.9	292.2	322.0
115°	2.8	85.1	194.3	280.9	312.1
117.5°	2.8	83.7	187.3	269.5	302.2
120°	2.8	79.4	180.2	259.6	290.8
122.5°	2.8	75.2	173.1	249.7	280.9
125°	2.8	72.3	166.0	239.7	269.5
127.5°	2.8	68.1	160.3	229.8	256.8
130°	2.8	65.3	153.2	218.5	245.4
132.5°	2.8	61.0	146.1	207.1	232.7
135°	2.8	56.7	139.0	197.2	221.3
137.5°	2.8	51.1	130.5	185.8	208.5
140°	2.8	46.8	119.2	174.5	195.8
142.5°	2.8	44.0	107.8	161.7	181.6
145°	2.8	41.1	96.5	149.0	167.4
147.5°	2.8	38.3	86.5	136.2	153.2
150°	2.8	34.0	76.6	124.8	139.0
152.5°	4.3	31.2	68.1	110.7	124.8
155°	4.3	28.4	59.6	95.0	110.7
157.5°	4.3	25.5	51.1	79.4	96.5
160°	4.3	22.7	44.0	65.3	82.3
162.5°	4.3	21.3	38.3	53.9	69.5
165°	4.3	18.4	32.6	44.0	56.7
167.5°	4.3	14.2	27.0	34.0	46.8
170°	4.3	11.3	21.3	24.1	35.5
172.5°	4.3	8.5	15.6	17.0	18.4
175°	4.3	7.1	9.9	9.9	5.7
177.5°	4.3	5.7	5.7	5.7	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)