

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: P566011

Luminaire Tested: **4SNX-104HL-LN-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566011
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-104HL-LN-UNV-L935-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

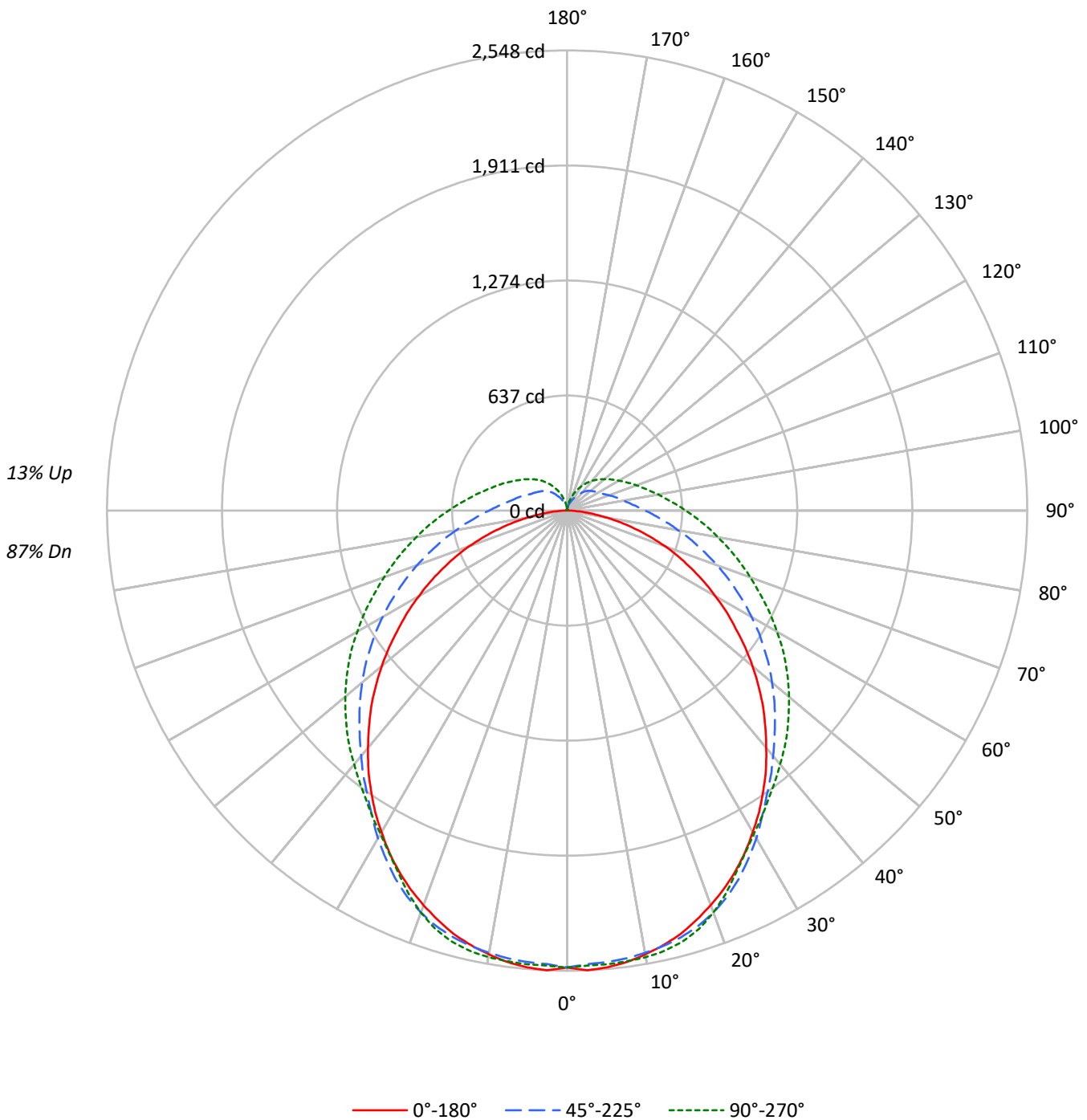
Lumens per Lamp: N/A
Luminaire Lumens: 9131.0 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	27227	27227	27227
5°	27331	25975	25745
10°	27076	24968	24557
15°	26750	24015	23359
20°	26235	22947	21833
25°	25682	21656	20042
30°	24951	20208	18547
35°	24172	18734	17432
40°	23287	17551	16529
45°	22419	16502	15751
50°	21387	15535	14965
55°	20180	14565	14197
60°	19023	13598	13394
65°	17734	12622	12658
70°	16263	11707	11992
75°	13986	10814	11444
80°	11020	10044	10979
85°	7379	9494	10712



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.3	2.6
10°-20°	690.9	7.6
20°-30°	1028.8	11.3
30°-40°	1213.9	13.3
40°-50°	1266.0	13.9
50°-60°	1189.7	13.0
60°-70°	1004.7	11.0
70°-80°	759.1	8.3
80°-90°	523.3	5.7
90°-100°	366.2	4.0
100°-110°	273.2	3.0
110°-120°	206.0	2.3
120°-130°	153.6	1.7
130°-140°	107.8	1.2
140°-150°	65.2	0.7
150°-160°	31.2	0.3
160°-170°	10.0	0.1
170°-180°	1.2	0.0
0°-30°	1959.9	21.5
0°-40°	3173.8	34.8
0°-60°	5629.5	61.7
0°-90°	7916.5	86.7
90°-120°	845.4	9.3
90°-150°	1172.1	12.8
90°-180°	1214.0	13.3
0°-180°	9131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2530	2530	2530	2530	2530	
5°	2539	2534	2509	2528	2522	241
15°	2427	2438	2444	2475	2471	683
25°	2204	2249	2249	2229	2212	1014
35°	1893	1963	1926	1941	1946	1184
45°	1534	1610	1627	1694	1724	1181
55°	1139	1237	1331	1438	1477	1022
65°	758	879	1028	1163	1208	753
75°	389	539	746	902	960	414
85°	88	277	517	687	748	99
90°	2	197	432	598	656	6
95°	2	153	365	523	577	1
105°	3	110	282	409	455	3
115°	3	94	218	325	367	3
125°	5	80	184	266	300	4
135°	5	62	153	217	243	4
145°	6	45	107	166	186	3
155°	6	29	65	105	122	3
165°	8	19	34	46	62	2
175°	8	8	9	9	5	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2529.5	2529.5	2529.5	2529.5	2529.5
2.5°	2548.0	2541.8	2514.0	2529.5	2521.7
5°	2538.7	2534.1	2509.3	2527.9	2521.7
7.5°	2521.7	2520.2	2501.6	2523.3	2517.1
10°	2495.4	2500.0	2486.1	2515.5	2510.9
12.5°	2464.4	2473.7	2469.1	2501.6	2496.9
15°	2427.3	2438.1	2444.3	2475.3	2470.6
17.5°	2377.8	2397.9	2411.8	2436.6	2428.8
20°	2325.1	2353.0	2368.5	2380.8	2368.5
22.5°	2267.8	2305.0	2314.3	2308.1	2295.7
25°	2204.4	2249.3	2249.3	2229.1	2212.1
27.5°	2133.2	2188.9	2173.4	2150.2	2136.3
30°	2055.8	2122.3	2096.0	2069.7	2066.6
32.5°	1978.4	2048.0	2009.3	2003.1	2007.8
35°	1893.2	1962.9	1925.7	1941.2	1945.9
37.5°	1808.1	1877.7	1853.0	1876.2	1890.1
40°	1715.2	1789.5	1774.0	1815.8	1834.4
42.5°	1623.9	1701.3	1699.7	1753.9	1781.8
45°	1534.1	1609.9	1627.0	1693.5	1724.5
47.5°	1436.6	1514.0	1555.8	1633.2	1664.1
50°	1340.6	1424.2	1481.5	1568.1	1603.7
52.5°	1241.5	1329.7	1408.7	1504.7	1541.8
55°	1139.3	1236.9	1331.3	1438.1	1476.8
57.5°	1048.0	1147.1	1258.5	1368.4	1413.3
60°	947.4	1057.3	1179.6	1295.7	1340.6
62.5°	856.1	969.1	1105.3	1227.6	1275.6
65°	758.5	879.3	1027.9	1162.6	1207.5
67.5°	668.7	792.6	955.1	1091.4	1140.9
70°	575.9	707.4	883.9	1027.9	1079.0
72.5°	479.9	619.2	812.7	966.0	1018.6
75°	388.6	538.7	746.1	902.5	959.8
77.5°	303.4	461.3	685.8	846.8	902.5
80°	219.8	391.6	622.3	789.5	846.8
82.5°	145.5	331.3	571.2	738.4	798.8
85°	88.2	277.1	517.0	687.3	747.7
87.5°	40.2	232.2	473.7	642.4	701.3
90°	1.5	196.6	431.9	597.5	656.4
92.5°	1.5	171.8	397.8	558.8	616.1
95°	1.5	153.3	365.3	523.2	577.4
97.5°	1.5	140.9	340.6	489.2	541.8
100°	1.5	128.5	315.8	458.2	512.4
102.5°	3.1	117.6	297.2	430.3	481.4
105°	3.1	109.9	281.7	408.7	455.1
107.5°	3.1	105.3	264.7	387.0	430.3
110°	3.1	100.6	246.1	365.3	408.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	97.5	232.2	346.8	388.6
115°	3.1	94.4	218.3	325.1	366.9
117.5°	3.1	92.9	210.5	308.1	348.3
120°	4.6	88.2	201.2	292.6	331.3
122.5°	4.6	83.6	192.0	280.2	314.2
125°	4.6	80.5	184.2	266.3	300.3
127.5°	4.6	75.9	176.5	253.9	284.8
130°	4.6	71.2	170.3	241.5	270.9
132.5°	4.6	66.6	162.5	229.1	257.0
135°	4.6	61.9	153.3	216.7	243.0
137.5°	4.6	57.3	144.0	204.3	229.1
140°	4.6	52.6	131.6	192.0	215.2
142.5°	4.6	48.0	119.2	179.6	199.7
145°	6.2	44.9	106.8	165.6	185.8
147.5°	6.2	40.2	94.4	151.7	168.7
150°	6.2	37.2	85.1	137.8	153.3
152.5°	6.2	32.5	75.9	122.3	137.8
155°	6.2	29.4	65.0	105.3	122.3
157.5°	6.2	26.3	55.7	88.2	106.8
160°	6.2	24.8	48.0	72.8	91.3
162.5°	7.7	21.7	40.2	58.8	75.9
165°	7.7	18.6	34.1	46.4	61.9
167.5°	7.7	15.5	27.9	35.6	48.0
170°	7.7	12.4	21.7	24.8	37.2
172.5°	7.7	9.3	15.5	17.0	18.6
175°	7.7	7.7	9.3	9.3	4.6
177.5°	7.7	7.7	6.2	4.6	1.5
180°	4.6	4.6	4.6	4.6	4.6

(END OF REPORT)