

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: P565992

Luminaire Tested: **4SNX-104HL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565992
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-FDL-UNV-L840-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

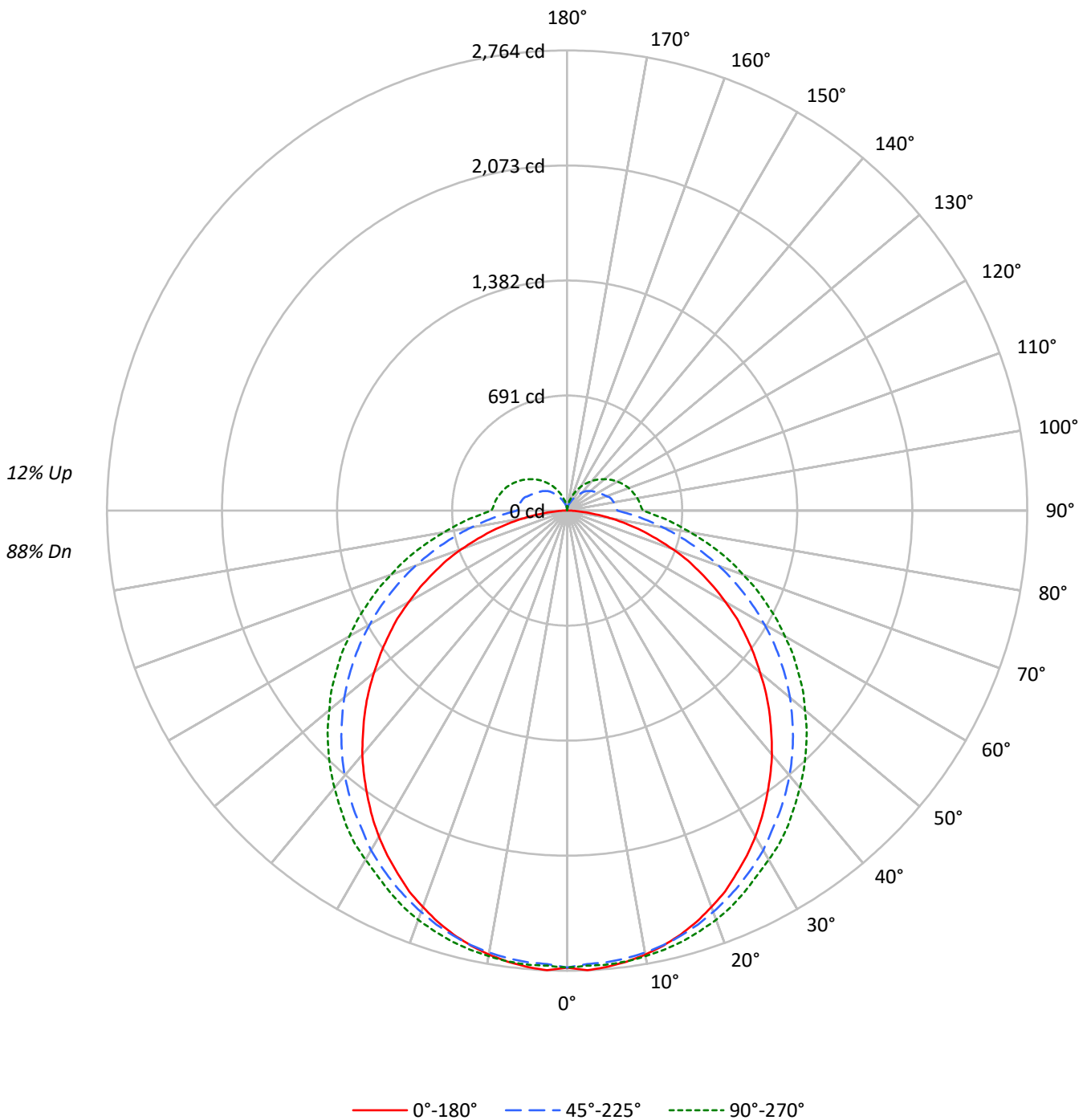
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9882.0 lumens
Efficiency: N/A
Efficacy: 130.9 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): 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	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°	29545	29545	29545
5°	29704	29101	29160
10°	29540	28828	28857
15°	29298	28500	28575
20°	28909	28106	28254
25°	28442	27706	27824
30°	27933	27304	27456
35°	27285	26822	27201
40°	26660	26424	26806
45°	25902	25961	26474
50°	25024	25472	26054
55°	24188	24866	25677
60°	23225	24219	25217
65°	22048	23477	24767
70°	20554	22666	24257
75°	18427	21776	24081
80°	15452	21222	23890
85°	11202	21660	25181



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.6	2.6
10°-20°	749.6	7.6
20°-30°	1140.3	11.5
30°-40°	1386.5	14.0
40°-50°	1466.9	14.8
50°-60°	1375.0	13.9
60°-70°	1131.2	11.4
70°-80°	782.7	7.9
80°-90°	435.2	4.4
90°-100°	286.7	2.9
100°-110°	257.1	2.6
110°-120°	212.8	2.2
120°-130°	164.5	1.7
130°-140°	116.5	1.2
140°-150°	70.3	0.7
150°-160°	33.7	0.3
160°-170°	11.0	0.1
170°-180°	1.3	0.0
0°-30°	2150.5	21.8
0°-40°	3537.0	35.8
0°-60°	6378.9	64.6
0°-90°	8727.9	88.3
90°-120°	756.7	7.7
90°-150°	1107.9	11.2
90°-180°	1154.0	11.7
0°-180°	9882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2745	2745	2745	2745	2745	
5°	2752	2746	2723	2745	2738	261
15°	2636	2645	2643	2679	2679	743
25°	2406	2440	2469	2523	2525	1109
35°	2092	2148	2220	2291	2312	1309
45°	1719	1809	1919	2005	2029	1325
55°	1308	1425	1562	1660	1694	1171
65°	885	1012	1169	1284	1320	878
75°	460	594	768	890	939	488
85°	102	252	426	545	592	117
90°	2	142	301	415	455	7
95°	2	135	293	401	440	1
105°	2	117	274	377	411	2
115°	3	102	232	335	372	3
125°	3	86	198	286	322	3
135°	3	68	166	235	264	3
145°	3	49	115	178	200	2
155°	5	34	71	113	132	2
165°	5	22	39	52	68	1
175°	5	8	12	12	7	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2744.8	2744.8	2744.8	2744.8	2744.8
2.5°	2763.5	2755.0	2726.2	2744.8	2736.4
5°	2751.6	2746.5	2722.8	2744.8	2738.1
7.5°	2733.0	2731.3	2712.7	2738.1	2731.3
10°	2707.6	2711.0	2695.8	2722.8	2717.8
12.5°	2675.5	2680.5	2673.8	2704.2	2700.8
15°	2636.5	2645.0	2643.3	2678.8	2678.8
17.5°	2589.2	2601.0	2607.8	2648.4	2648.4
20°	2533.3	2551.9	2565.5	2609.5	2616.2
22.5°	2477.5	2499.5	2519.8	2565.5	2575.6
25°	2406.4	2440.2	2469.0	2523.2	2524.8
27.5°	2337.0	2374.2	2413.2	2465.6	2470.7
30°	2260.9	2308.2	2355.6	2406.4	2421.6
32.5°	2179.6	2232.1	2284.5	2352.2	2372.5
35°	2091.6	2147.5	2220.2	2291.3	2311.6
37.5°	2003.6	2066.2	2150.9	2223.6	2242.2
40°	1913.9	1983.3	2078.1	2152.5	2174.5
42.5°	1814.1	1898.7	2000.2	2079.8	2105.2
45°	1719.3	1809.0	1919.0	2005.3	2029.0
47.5°	1619.5	1714.3	1832.7	1924.1	1951.2
50°	1512.9	1621.2	1748.1	1839.5	1864.9
52.5°	1413.0	1523.0	1656.7	1751.5	1787.0
55°	1308.1	1424.9	1562.0	1660.1	1693.9
57.5°	1210.0	1321.7	1468.9	1567.0	1609.3
60°	1098.3	1221.8	1369.0	1475.6	1509.5
62.5°	993.4	1118.6	1270.9	1380.9	1419.8
65°	885.0	1012.0	1169.3	1284.4	1320.0
67.5°	783.5	908.7	1069.5	1182.9	1228.6
70°	671.8	803.8	968.0	1084.7	1123.7
72.5°	561.8	698.9	866.4	991.7	1035.7
75°	460.3	594.0	768.3	890.1	939.2
77.5°	362.1	497.5	673.5	798.7	841.1
80°	264.0	406.1	585.5	709.1	749.7
82.5°	174.3	323.2	500.9	624.4	668.4
85°	101.5	252.1	426.4	544.9	592.3
87.5°	44.0	191.2	357.1	473.8	512.8
90°	1.7	142.1	301.2	414.6	455.2
92.5°	1.7	138.8	294.5	406.1	445.1
95°	1.7	135.4	292.8	401.1	440.0
97.5°	1.7	133.7	289.4	397.7	434.9
100°	1.7	128.6	284.3	390.9	428.1
102.5°	1.7	121.8	279.2	384.1	419.7
105°	1.7	116.8	274.1	377.4	411.2
107.5°	1.7	111.7	265.7	368.9	402.8
110°	1.7	106.6	252.1	360.5	394.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	104.9	242.0	348.6	384.1
115°	3.4	101.5	231.8	335.1	372.3
117.5°	3.4	99.8	223.4	321.5	360.5
120°	3.4	94.8	214.9	309.7	346.9
122.5°	3.4	89.7	206.5	297.8	335.1
125°	3.4	86.3	198.0	286.0	321.5
127.5°	3.4	81.2	191.2	274.1	306.3
130°	3.4	77.8	182.8	260.6	292.8
132.5°	3.4	72.8	174.3	247.1	277.5
135°	3.4	67.7	165.8	235.2	264.0
137.5°	3.4	60.9	155.7	221.7	248.8
140°	3.4	55.8	142.1	208.1	233.5
142.5°	3.4	52.5	128.6	192.9	216.6
145°	3.4	49.1	115.1	177.7	199.7
147.5°	3.4	45.7	103.2	162.5	182.8
150°	3.4	40.6	91.4	148.9	165.8
152.5°	5.1	37.2	81.2	132.0	148.9
155°	5.1	33.8	71.1	113.4	132.0
157.5°	5.1	30.5	60.9	94.8	115.1
160°	5.1	27.1	52.5	77.8	98.2
162.5°	5.1	25.4	45.7	64.3	82.9
165°	5.1	22.0	38.9	52.5	67.7
167.5°	5.1	16.9	32.2	40.6	55.8
170°	5.1	13.5	25.4	28.8	42.3
172.5°	5.1	10.2	18.6	20.3	22.0
175°	5.1	8.5	11.8	11.8	6.8
177.5°	5.1	6.8	6.8	6.8	3.4
180°	3.4	3.4	3.4	3.4	3.4

(END OF REPORT)