

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: P566790

Luminaire Tested: **4SNX-74HL-SLW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566790
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-74HL-SLW-UNV-L830-CD
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

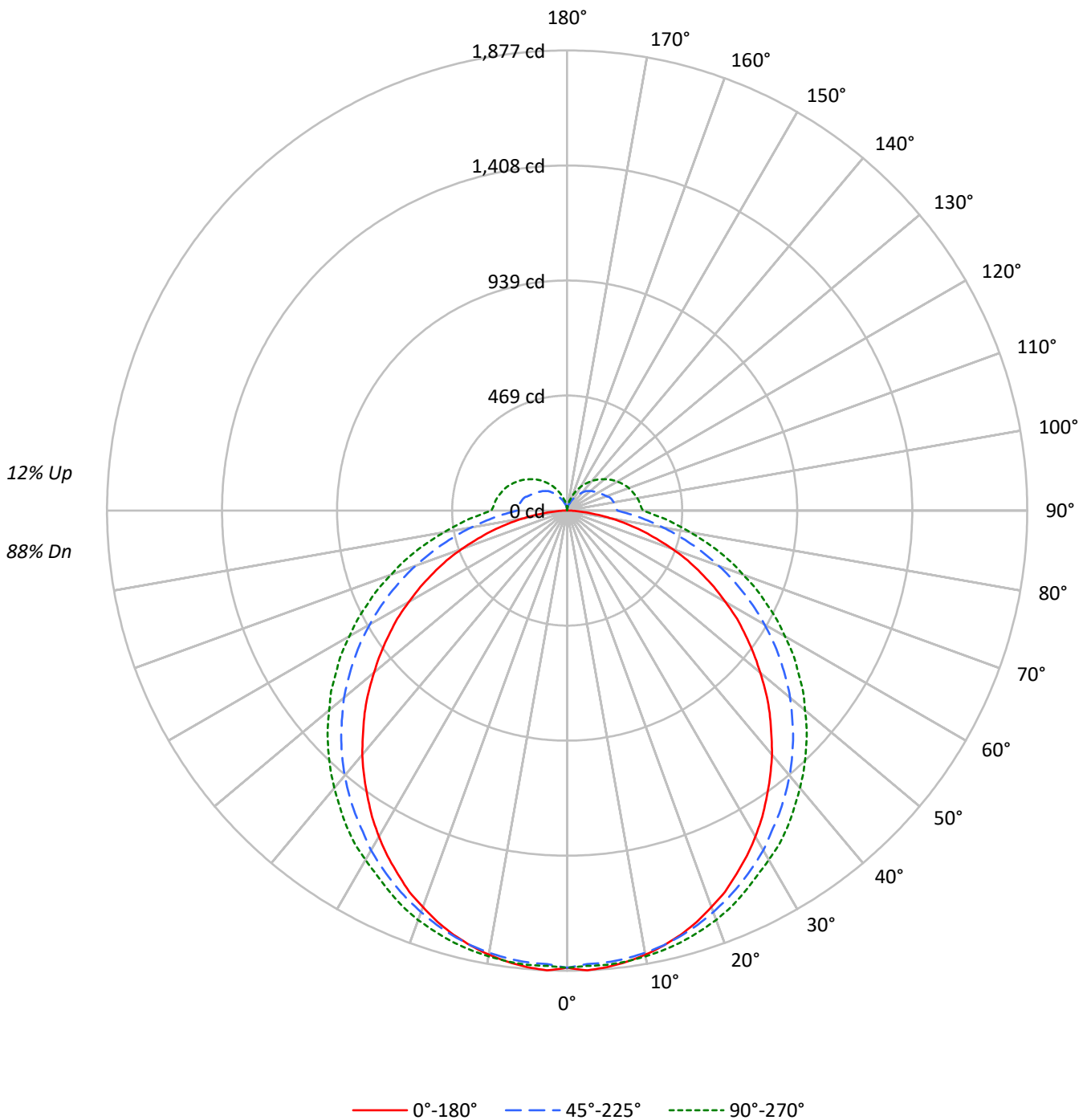
Lumens per Lamp: N/A
Luminaire Lumens: 6713.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 51.8
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				88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71				71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58				58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48				48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41				41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35				35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31				31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27				27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24				24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21				21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19				19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20070	20070	20070
5°	20160	19559	19530
10°	20030	19173	19063
15°	19848	18756	18623
20°	19565	18302	18163
25°	19229	17844	17640
30°	18863	17385	17157
35°	18404	16872	16742
40°	17957	16403	16234
45°	17418	15882	15752
50°	16794	15329	15200
55°	16196	14683	14649
60°	15505	13981	14015
65°	14660	13182	13340
70°	13589	12280	12563
75°	12070	11241	11850
80°	9944	10212	10951
85°	6888	9291	10365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	2.6
10°-20°	509.2	7.6
20°-30°	774.6	11.5
30°-40°	941.9	14.0
40°-50°	996.5	14.8
50°-60°	934.1	13.9
60°-70°	768.4	11.4
70°-80°	531.7	7.9
80°-90°	295.7	4.4
90°-100°	194.8	2.9
100°-110°	174.7	2.6
110°-120°	144.6	2.2
120°-130°	111.8	1.7
130°-140°	79.1	1.2
140°-150°	47.7	0.7
150°-160°	22.9	0.3
160°-170°	7.5	0.1
170°-180°	0.9	0.0
0°-30°	1460.9	21.8
0°-40°	2402.7	35.8
0°-60°	4333.3	64.6
0°-90°	5929.1	88.3
90°-120°	514.0	7.7
90°-150°	752.6	11.2
90°-180°	784.0	11.7
0°-180°	6713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1865	1865	1865	1865	1865	
5°	1869	1866	1850	1865	1860	177
15°	1791	1797	1796	1820	1820	505
25°	1635	1658	1677	1714	1715	754
35°	1421	1459	1508	1556	1570	889
45°	1168	1229	1304	1362	1378	900
55°	889	968	1061	1128	1151	795
65°	601	687	794	872	897	596
75°	313	404	522	605	638	332
85°	69	171	290	370	402	79
90°	1	97	205	282	309	5
95°	1	92	199	272	299	1
105°	1	79	186	256	279	1
115°	2	69	158	228	253	2
125°	2	59	134	194	218	2
135°	2	46	113	160	179	2
145°	2	33	78	121	136	1
155°	3	23	48	77	90	2
165°	3	15	26	36	46	1
175°	3	6	8	8	5	0
180°	2	2	2	2	2	



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CATALOG NUMBER: 4SNX-74HL-SLW-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1864.6	1864.6	1864.6	1864.6	1864.6
2.5°	1877.3	1871.5	1852.0	1864.6	1858.9
5°	1869.2	1865.8	1849.7	1864.6	1860.0
7.5°	1856.6	1855.4	1842.8	1860.0	1855.4
10°	1839.3	1841.6	1831.3	1849.7	1846.2
12.5°	1817.5	1820.9	1816.3	1837.0	1834.7
15°	1791.0	1796.8	1795.6	1819.8	1819.8
17.5°	1758.9	1766.9	1771.5	1799.1	1799.1
20°	1720.9	1733.6	1742.8	1772.6	1777.2
22.5°	1683.0	1697.9	1711.7	1742.8	1749.7
25°	1634.7	1657.7	1677.2	1714.0	1715.2
27.5°	1587.6	1612.9	1639.3	1674.9	1678.4
30°	1535.8	1568.0	1600.2	1634.7	1645.0
32.5°	1480.7	1516.3	1551.9	1597.9	1611.7
35°	1420.9	1458.8	1508.2	1556.5	1570.3
37.5°	1361.1	1403.6	1461.1	1510.5	1523.2
40°	1300.2	1347.3	1411.7	1462.3	1477.2
42.5°	1232.3	1289.8	1358.8	1412.8	1430.1
45°	1168.0	1228.9	1303.6	1362.2	1378.3
47.5°	1100.1	1164.5	1245.0	1307.1	1325.5
50°	1027.7	1101.3	1187.5	1249.6	1266.8
52.5°	959.9	1034.6	1125.4	1189.8	1214.0
55°	888.6	967.9	1061.1	1127.7	1150.7
57.5°	821.9	897.8	997.8	1064.5	1093.2
60°	746.1	830.0	930.0	1002.4	1025.4
62.5°	674.8	759.9	863.3	938.1	964.5
65°	601.2	687.4	794.4	872.5	896.7
67.5°	532.3	617.3	726.5	803.6	834.6
70°	456.4	546.0	657.6	736.9	763.3
72.5°	381.7	474.8	588.6	673.7	703.5
75°	312.7	403.5	521.9	604.7	638.0
77.5°	246.0	338.0	457.5	542.6	571.3
80°	179.3	275.9	397.8	481.7	509.3
82.5°	118.4	219.6	340.3	424.2	454.1
85°	69.0	171.3	289.7	370.2	402.4
87.5°	29.9	129.9	242.6	321.9	348.3
90°	1.1	96.6	204.6	281.6	309.2
92.5°	1.1	94.3	200.0	275.9	302.3
95°	1.1	92.0	198.9	272.4	298.9
97.5°	1.1	90.8	196.6	270.2	295.4
100°	1.1	87.4	193.1	265.6	290.8
102.5°	1.1	82.8	189.7	261.0	285.1
105°	1.1	79.3	186.2	256.4	279.3
107.5°	1.1	75.9	180.5	250.6	273.6
110°	1.1	72.4	171.3	244.9	267.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	71.3	164.4	236.8	261.0
115°	2.3	69.0	157.5	227.6	252.9
117.5°	2.3	67.8	151.7	218.4	244.9
120°	2.3	64.4	146.0	210.4	235.7
122.5°	2.3	60.9	140.2	202.3	227.6
125°	2.3	58.6	134.5	194.3	218.4
127.5°	2.3	55.2	129.9	186.2	208.1
130°	2.3	52.9	124.2	177.0	198.9
132.5°	2.3	49.4	118.4	167.8	188.5
135°	2.3	46.0	112.7	159.8	179.3
137.5°	2.3	41.4	105.8	150.6	169.0
140°	2.3	37.9	96.6	141.4	158.6
142.5°	2.3	35.6	87.4	131.1	147.1
145°	2.3	33.3	78.2	120.7	135.6
147.5°	2.3	31.0	70.1	110.4	124.2
150°	2.3	27.6	62.1	101.2	112.7
152.5°	3.4	25.3	55.2	89.7	101.2
155°	3.4	23.0	48.3	77.0	89.7
157.5°	3.4	20.7	41.4	64.4	78.2
160°	3.4	18.4	35.6	52.9	66.7
162.5°	3.4	17.2	31.0	43.7	56.3
165°	3.4	14.9	26.4	35.6	46.0
167.5°	3.4	11.5	21.8	27.6	37.9
170°	3.4	9.2	17.2	19.5	28.7
172.5°	3.4	6.9	12.6	13.8	14.9
175°	3.4	5.7	8.0	8.0	4.6
177.5°	3.4	4.6	4.6	4.6	2.3
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)