

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: P566782

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566782  
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-LW-UNV-L830-CD  
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

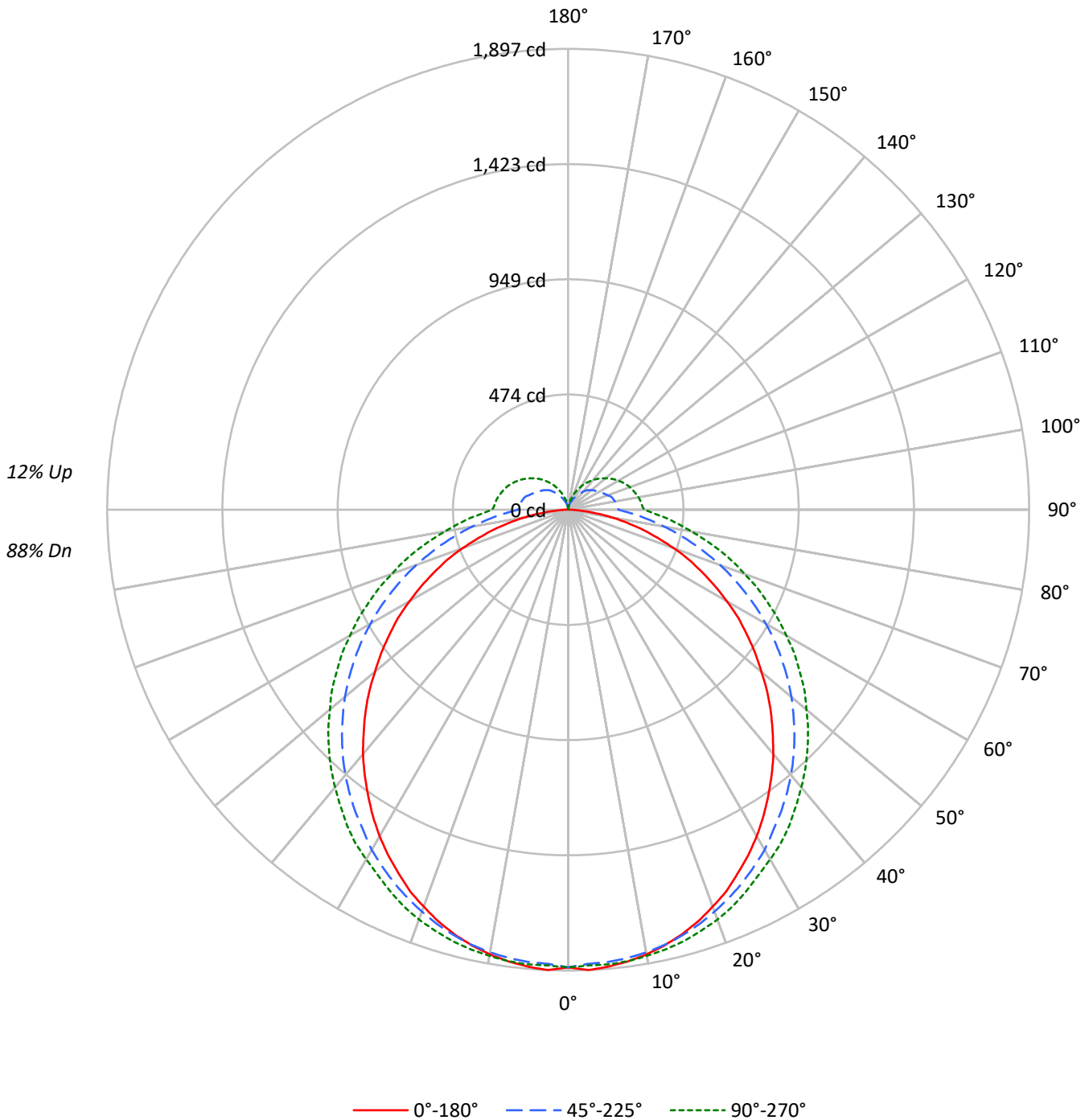
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6782.0 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: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 51.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	20277	20277	20277
5°	20330	19344	19185
10°	20162	18581	18242
15°	19941	17824	17382
20°	19618	17058	16551
25°	19240	16315	15699
30°	18832	15587	14916
35°	18328	14823	14213
40°	17833	14110	13447
45°	17244	13358	12718
50°	16564	12580	11943
55°	15902	11728	11176
60°	15133	10831	10351
65°	14201	9854	9496
70°	13021	8799	8571
75°	11370	7643	7686
80°	9085	6485	6671
85°	5831	5375	5824



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.8	2.6
10°-20°	514.4	7.6
20°-30°	782.6	11.5
30°-40°	951.6	14.0
40°-50°	1006.7	14.8
50°-60°	943.7	13.9
60°-70°	776.3	11.4
70°-80°	537.2	7.9
80°-90°	298.7	4.4
90°-100°	196.8	2.9
100°-110°	176.4	2.6
110°-120°	146.1	2.2
120°-130°	112.9	1.7
130°-140°	79.9	1.2
140°-150°	48.2	0.7
150°-160°	23.2	0.3
160°-170°	7.6	0.1
170°-180°	0.9	0.0
0°-30°	1475.9	21.8
0°-40°	2427.4	35.8
0°-60°	4377.8	64.6
0°-90°	5990.0	88.3
90°-120°	519.3	7.7
90°-150°	760.3	11.2
90°-180°	792.0	11.7
0°-180°	6782.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1884	1884	1884	1884	1884	
5°	1888	1885	1869	1884	1879	179
15°	1809	1815	1814	1838	1838	510
25°	1652	1675	1694	1732	1733	761
35°	1436	1474	1524	1572	1586	898
45°	1180	1242	1317	1376	1392	910
55°	898	978	1072	1139	1163	804
65°	607	694	802	882	906	602
75°	316	408	527	611	645	335
85°	70	173	293	374	406	80
90°	1	98	207	284	312	5
95°	1	93	201	275	302	1
105°	1	80	188	259	282	1
115°	2	70	159	230	256	2
125°	2	59	136	196	221	2
135°	2	46	114	161	181	2
145°	2	34	79	122	137	1
155°	4	23	49	78	91	2
165°	4	15	27	36	46	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



TEST NUMBER: P566782

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1883.8	1883.8	1883.8	1883.8	1883.8
2.5°	1896.6	1890.7	1871.0	1883.8	1878.0
5°	1888.4	1884.9	1868.7	1883.8	1879.1
7.5°	1875.6	1874.5	1861.7	1879.1	1874.5
10°	1858.2	1860.5	1850.1	1868.7	1865.2
12.5°	1836.2	1839.6	1835.0	1855.9	1853.6
15°	1809.4	1815.3	1814.1	1838.5	1838.5
17.5°	1776.9	1785.1	1789.7	1817.6	1817.6
20°	1738.6	1751.4	1760.7	1790.9	1795.5
22.5°	1700.3	1715.4	1729.3	1760.7	1767.6
25°	1651.5	1674.7	1694.5	1731.6	1732.8
27.5°	1603.9	1629.4	1656.1	1692.1	1695.6
30°	1551.6	1584.1	1616.7	1651.5	1662.0
32.5°	1495.9	1531.9	1567.9	1614.3	1628.3
35°	1435.5	1473.8	1523.7	1572.5	1586.5
37.5°	1375.1	1418.1	1476.1	1526.1	1538.8
40°	1313.5	1361.2	1426.2	1477.3	1492.4
42.5°	1245.0	1303.1	1372.8	1427.4	1444.8
45°	1180.0	1241.5	1317.0	1376.2	1392.5
47.5°	1111.5	1176.5	1257.8	1320.5	1339.1
50°	1038.3	1112.6	1199.7	1262.4	1279.9
52.5°	969.8	1045.3	1137.0	1202.0	1226.4
55°	897.8	977.9	1072.0	1139.3	1162.6
57.5°	830.4	907.0	1008.1	1075.4	1104.5
60°	753.7	838.5	939.6	1012.7	1036.0
62.5°	681.7	767.7	872.2	947.7	974.4
65°	607.4	694.5	802.5	881.5	905.9
67.5°	537.7	623.7	734.0	811.8	843.2
70°	461.1	551.7	664.3	744.5	771.2
72.5°	385.6	479.7	594.6	680.6	710.8
75°	315.9	407.6	527.3	610.9	644.6
77.5°	248.5	341.4	462.2	548.2	577.2
80°	181.2	278.7	401.8	486.6	514.5
82.5°	119.6	221.8	343.8	428.6	458.7
85°	69.7	173.0	292.7	374.0	406.5
87.5°	30.2	131.2	245.1	325.2	351.9
90°	1.2	97.6	206.7	284.5	312.4
92.5°	1.2	95.2	202.1	278.7	305.4
95°	1.2	92.9	200.9	275.2	302.0
97.5°	1.2	91.7	198.6	272.9	298.5
100°	1.2	88.3	195.1	268.3	293.8
102.5°	1.2	83.6	191.6	263.6	288.0
105°	1.2	80.1	188.1	259.0	282.2
107.5°	1.2	76.7	182.3	253.2	276.4
110°	1.2	73.2	173.0	247.4	270.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	72.0	166.1	239.2	263.6
115°	2.3	69.7	159.1	230.0	255.5
117.5°	2.3	68.5	153.3	220.7	247.4
120°	2.3	65.0	147.5	212.5	238.1
122.5°	2.3	61.6	141.7	204.4	230.0
125°	2.3	59.2	135.9	196.3	220.7
127.5°	2.3	55.7	131.2	188.1	210.2
130°	2.3	53.4	125.4	178.9	200.9
132.5°	2.3	49.9	119.6	169.6	190.5
135°	2.3	46.5	113.8	161.4	181.2
137.5°	2.3	41.8	106.8	152.1	170.7
140°	2.3	38.3	97.6	142.9	160.3
142.5°	2.3	36.0	88.3	132.4	148.7
145°	2.3	33.7	79.0	121.9	137.0
147.5°	2.3	31.4	70.8	111.5	125.4
150°	2.3	27.9	62.7	102.2	113.8
152.5°	3.5	25.6	55.7	90.6	102.2
155°	3.5	23.2	48.8	77.8	90.6
157.5°	3.5	20.9	41.8	65.0	79.0
160°	3.5	18.6	36.0	53.4	67.4
162.5°	3.5	17.4	31.4	44.1	56.9
165°	3.5	15.1	26.7	36.0	46.5
167.5°	3.5	11.6	22.1	27.9	38.3
170°	3.5	9.3	17.4	19.7	29.0
172.5°	3.5	7.0	12.8	13.9	15.1
175°	3.5	5.8	8.1	8.1	4.6
177.5°	3.5	4.6	4.6	4.6	2.3
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)