

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: P566856

Luminaire Tested: **4SNX-84HL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566856  
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-84HL-FDL-UNV-L840-CD  
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

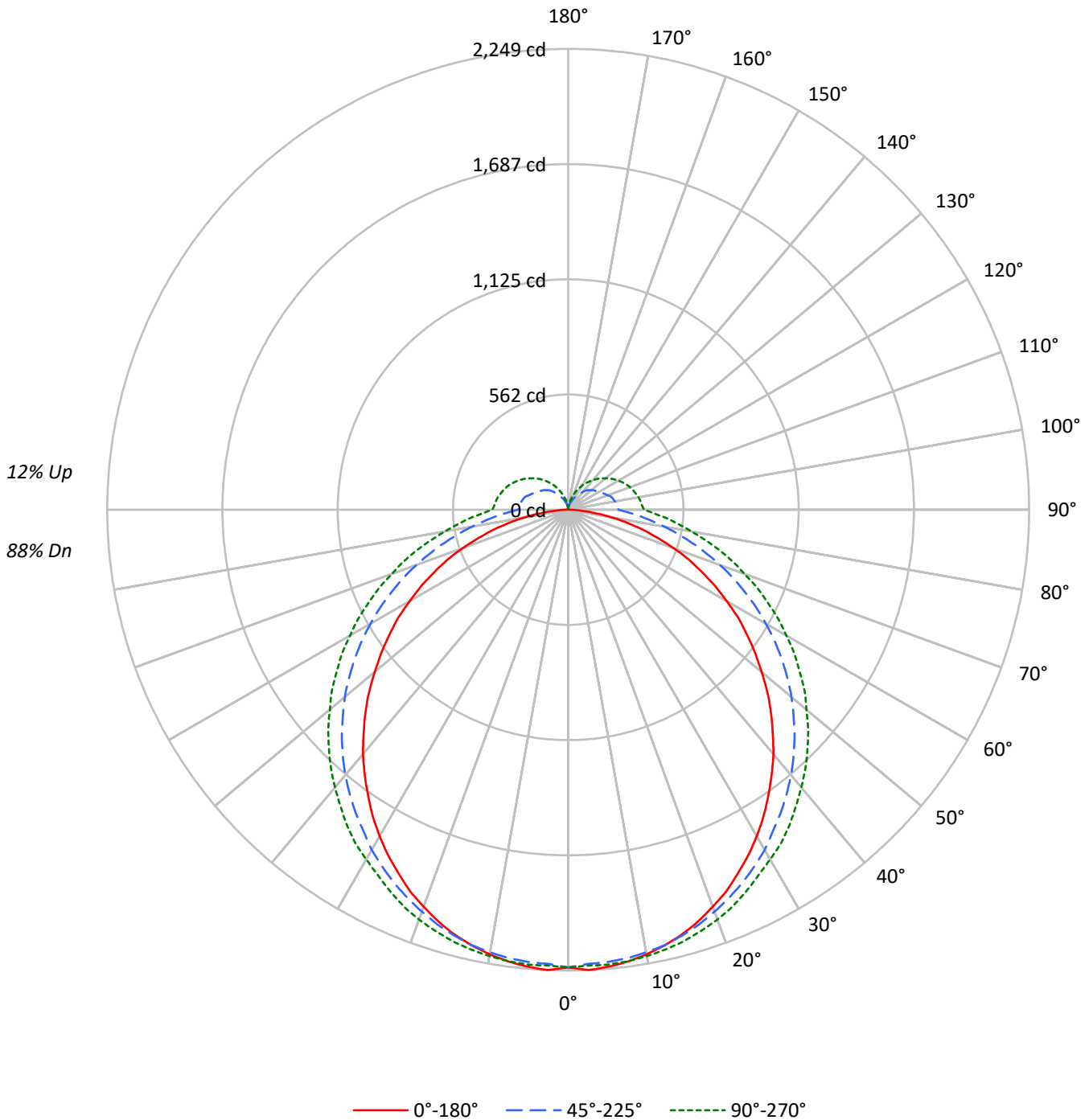
Lumens per Lamp: N/A  
Luminaire Lumens: 8042.0 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')  
CIE Type: Semi-Direct

Input Watts (W): 57.9  
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°	24044	24044	24044
5°	24174	23683	23730
10°	24040	23460	23484
15°	23843	23193	23255
20°	23526	22873	22993
25°	23146	22547	22643
30°	22732	22220	22344
35°	22205	21828	22136
40°	21697	21504	21816
45°	21080	21127	21545
50°	20364	20729	21202
55°	19684	20235	20896
60°	18901	19709	20521
65°	17945	19106	20155
70°	16727	18445	19739
75°	14996	17720	19597
80°	12572	17271	19442
85°	9116	17627	20491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.1	2.6
10°-20°	610.0	7.6
20°-30°	928.0	11.5
30°-40°	1128.3	14.0
40°-50°	1193.8	14.8
50°-60°	1119.0	13.9
60°-70°	920.6	11.4
70°-80°	636.9	7.9
80°-90°	354.2	4.4
90°-100°	233.3	2.9
100°-110°	209.2	2.6
110°-120°	173.2	2.2
120°-130°	133.9	1.7
130°-140°	94.8	1.2
140°-150°	57.2	0.7
150°-160°	27.5	0.3
160°-170°	9.0	0.1
170°-180°	1.1	0.0
0°-30°	1750.1	21.8
0°-40°	2878.4	35.8
0°-60°	5191.2	64.6
0°-90°	7102.8	88.3
90°-120°	615.8	7.7
90°-150°	901.6	11.2
90°-180°	939.0	11.7
0°-180°	8042.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2239	2235	2216	2234	2228	213
15°	2146	2152	2151	2180	2180	605
25°	1958	1986	2009	2053	2055	903
35°	1702	1748	1807	1865	1881	1065
45°	1399	1472	1562	1632	1651	1078
55°	1064	1160	1271	1351	1378	953
65°	720	824	952	1045	1074	714
75°	375	483	625	724	764	397
85°	83	205	347	443	482	95
90°	1	116	245	337	370	5
95°	1	110	238	326	358	1
105°	1	95	223	307	335	1
115°	3	83	189	273	303	2
125°	3	70	161	233	262	3
135°	3	55	135	191	215	2
145°	3	40	94	145	162	2
155°	4	28	58	92	107	2
165°	4	18	32	43	55	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2233.8	2233.8	2233.8	2233.8	2233.8
2.5°	2248.9	2242.0	2218.6	2233.8	2226.9
5°	2239.3	2235.1	2215.9	2233.8	2228.2
7.5°	2224.1	2222.7	2207.6	2228.2	2222.7
10°	2203.5	2206.2	2193.8	2215.9	2211.7
12.5°	2177.3	2181.4	2175.9	2200.7	2198.0
15°	2145.6	2152.5	2151.1	2180.0	2180.0
17.5°	2107.1	2116.7	2122.2	2155.3	2155.3
20°	2061.6	2076.8	2087.8	2123.6	2129.1
22.5°	2016.2	2034.1	2050.6	2087.8	2096.0
25°	1958.3	1985.9	2009.3	2053.3	2054.7
27.5°	1901.9	1932.2	1963.8	2006.5	2010.7
30°	1839.9	1878.4	1917.0	1958.3	1970.7
32.5°	1773.8	1816.5	1859.2	1914.3	1930.8
35°	1702.2	1747.6	1806.8	1864.7	1881.2
37.5°	1630.6	1681.5	1750.4	1809.6	1824.7
40°	1557.6	1614.0	1691.2	1751.7	1769.7
42.5°	1476.3	1545.2	1627.8	1692.5	1713.2
45°	1399.2	1472.2	1561.7	1631.9	1651.2
47.5°	1317.9	1395.1	1491.5	1565.8	1587.9
50°	1231.2	1319.3	1422.6	1497.0	1517.6
52.5°	1149.9	1239.4	1348.2	1425.4	1454.3
55°	1064.5	1159.6	1271.1	1351.0	1378.5
57.5°	984.7	1075.6	1195.4	1275.3	1309.7
60°	893.8	994.3	1114.1	1200.9	1228.4
62.5°	808.4	910.3	1034.2	1123.8	1155.4
65°	720.3	823.5	951.6	1045.3	1074.2
67.5°	637.6	739.5	870.4	962.6	999.8
70°	546.7	654.2	787.7	882.8	914.4
72.5°	457.2	568.8	705.1	807.0	842.8
75°	374.6	483.4	625.2	724.4	764.3
77.5°	294.7	404.9	548.1	650.0	684.4
80°	214.8	330.5	476.5	577.0	610.1
82.5°	141.8	263.0	407.6	508.2	544.0
85°	82.6	205.2	347.0	443.4	482.0
87.5°	35.8	155.6	290.6	385.6	417.3
90°	1.4	115.7	245.1	337.4	370.5
92.5°	1.4	112.9	239.6	330.5	362.2
95°	1.4	110.2	238.2	326.4	358.1
97.5°	1.4	108.8	235.5	323.6	353.9
100°	1.4	104.7	231.4	318.1	348.4
102.5°	1.4	99.2	227.2	312.6	341.5
105°	1.4	95.0	223.1	307.1	334.7
107.5°	1.4	90.9	216.2	300.2	327.8
110°	1.4	86.8	205.2	293.3	320.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	85.4	196.9	283.7	312.6
115°	2.8	82.6	188.7	272.7	303.0
117.5°	2.8	81.3	181.8	261.7	293.3
120°	2.8	77.1	174.9	252.0	282.3
122.5°	2.8	73.0	168.0	242.4	272.7
125°	2.8	70.2	161.1	232.7	261.7
127.5°	2.8	66.1	155.6	223.1	249.3
130°	2.8	63.3	148.7	212.1	238.2
132.5°	2.8	59.2	141.8	201.1	225.9
135°	2.8	55.1	135.0	191.4	214.8
137.5°	2.8	49.6	126.7	180.4	202.4
140°	2.8	45.4	115.7	169.4	190.0
142.5°	2.8	42.7	104.7	157.0	176.3
145°	2.8	39.9	93.6	144.6	162.5
147.5°	2.8	37.2	84.0	132.2	148.7
150°	2.8	33.1	74.4	121.2	135.0
152.5°	4.1	30.3	66.1	107.4	121.2
155°	4.1	27.5	57.8	92.3	107.4
157.5°	4.1	24.8	49.6	77.1	93.6
160°	4.1	22.0	42.7	63.3	79.9
162.5°	4.1	20.7	37.2	52.3	67.5
165°	4.1	17.9	31.7	42.7	55.1
167.5°	4.1	13.8	26.2	33.1	45.4
170°	4.1	11.0	20.7	23.4	34.4
172.5°	4.1	8.3	15.1	16.5	17.9
175°	4.1	6.9	9.6	9.6	5.5
177.5°	4.1	5.5	5.5	5.5	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)