

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: P566903

Luminaire Tested: **4SNX-87HL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566903
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-87HL-FDL-UNV-L835-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

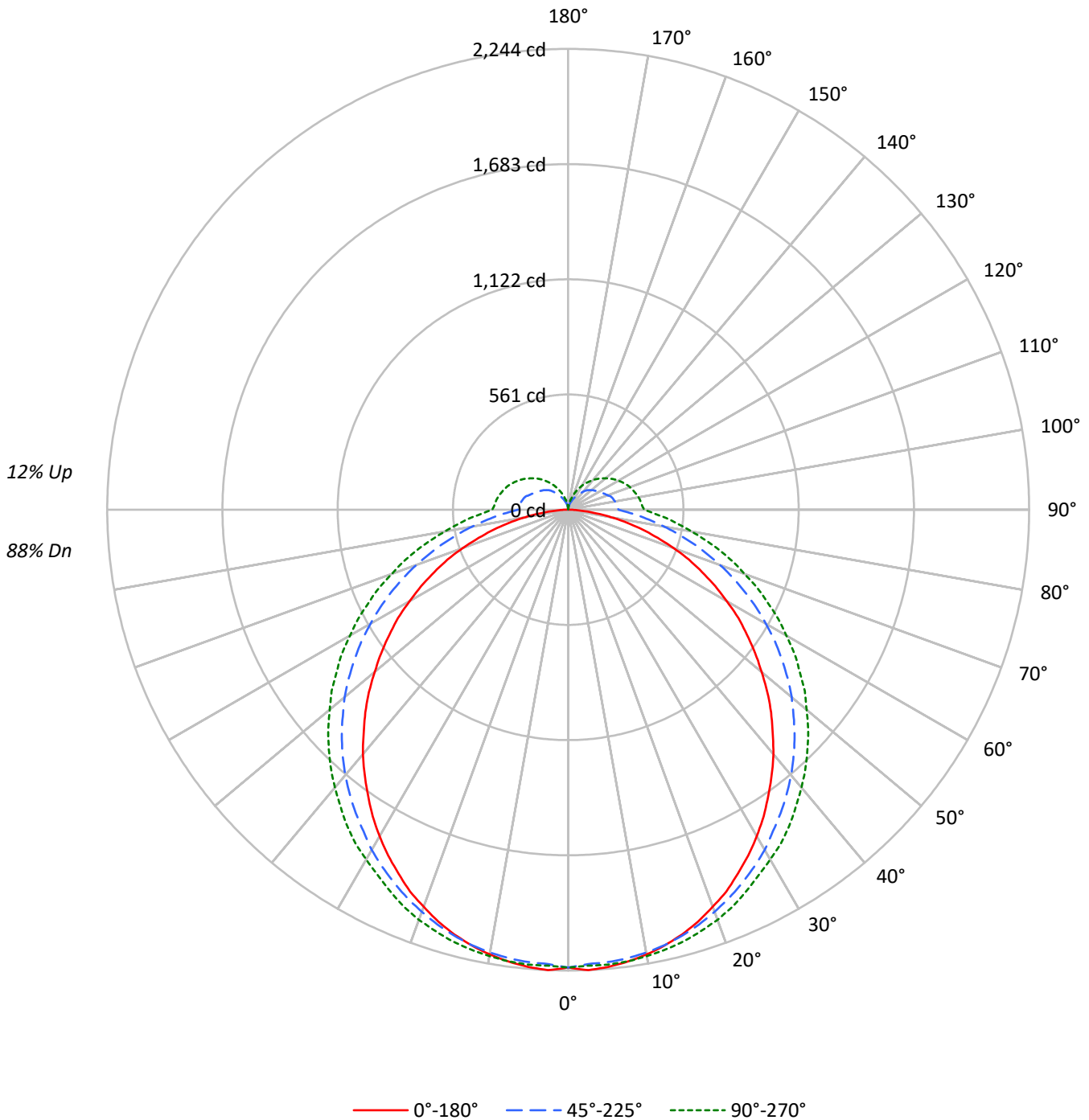
Lumens per Lamp: N/A
Luminaire Lumens: 8026.0 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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	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°	23996	23996	23996
5°	24125	23635	23683
10°	23992	23414	23437
15°	23795	23147	23209
20°	23479	22827	22948
25°	23100	22502	22598
30°	22686	22176	22300
35°	22161	21785	22093
40°	21653	21461	21771
45°	21038	21085	21502
50°	20323	20688	21160
55°	19645	20195	20855
60°	18863	19671	20481
65°	17908	19068	20114
70°	16693	18409	19700
75°	14964	17686	19558
80°	12549	17239	19403
85°	9105	17596	20449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	2.6
10°-20°	608.8	7.6
20°-30°	926.1	11.5
30°-40°	1126.1	14.0
40°-50°	1191.4	14.8
50°-60°	1116.8	13.9
60°-70°	918.7	11.4
70°-80°	635.7	7.9
80°-90°	353.5	4.4
90°-100°	232.9	2.9
100°-110°	208.8	2.6
110°-120°	172.8	2.2
120°-130°	133.6	1.7
130°-140°	94.6	1.2
140°-150°	57.1	0.7
150°-160°	27.4	0.3
160°-170°	9.0	0.1
170°-180°	1.1	0.0
0°-30°	1746.6	21.8
0°-40°	2872.7	35.8
0°-60°	5180.8	64.6
0°-90°	7088.7	88.3
90°-120°	614.5	7.7
90°-150°	899.8	11.2
90°-180°	937.0	11.7
0°-180°	8026.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2229	2229	2229	2229	2229	
5°	2235	2231	2211	2229	2224	212
15°	2141	2148	2147	2176	2176	604
25°	1954	1982	2005	2049	2051	901
35°	1699	1744	1803	1861	1878	1063
45°	1396	1469	1559	1629	1648	1076
55°	1062	1157	1269	1348	1376	951
65°	719	822	950	1043	1072	713
75°	374	482	624	723	763	397
85°	82	205	346	443	481	95
90°	1	116	245	337	370	5
95°	1	110	238	326	357	1
105°	1	95	223	306	334	1
115°	3	82	188	272	302	2
125°	3	70	161	232	261	2
135°	3	55	135	191	214	2
145°	3	40	94	144	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°	2229.3	2229.3	2229.3	2229.3	2229.3
2.5°	2244.4	2237.6	2214.2	2229.3	2222.4
5°	2234.8	2230.7	2211.4	2229.3	2223.8
7.5°	2219.7	2218.3	2203.2	2223.8	2218.3
10°	2199.1	2201.8	2189.5	2211.4	2207.3
12.5°	2173.0	2177.1	2171.6	2196.3	2193.6
15°	2141.3	2148.2	2146.8	2175.7	2175.7
17.5°	2102.9	2112.5	2118.0	2151.0	2151.0
20°	2057.5	2072.6	2083.6	2119.4	2124.9
22.5°	2012.2	2030.0	2046.5	2083.6	2091.9
25°	1954.4	1981.9	2005.3	2049.3	2050.6
27.5°	1898.1	1928.3	1959.9	2002.5	2006.7
30°	1836.2	1874.7	1913.2	1954.4	1966.8
32.5°	1770.3	1812.9	1855.5	1910.4	1926.9
35°	1698.8	1744.1	1803.2	1861.0	1877.5
37.5°	1627.3	1678.2	1746.9	1806.0	1821.1
40°	1554.5	1610.8	1687.8	1748.3	1766.1
42.5°	1473.4	1542.1	1624.6	1689.2	1709.8
45°	1396.4	1469.3	1558.6	1628.7	1647.9
47.5°	1315.3	1392.3	1488.5	1562.7	1584.7
50°	1228.7	1316.7	1419.8	1494.0	1514.6
52.5°	1147.6	1237.0	1345.6	1422.5	1451.4
55°	1062.4	1157.3	1268.6	1348.3	1375.8
57.5°	982.7	1073.4	1193.0	1272.7	1307.1
60°	892.0	992.3	1111.9	1198.5	1226.0
62.5°	806.8	908.5	1032.2	1121.5	1153.1
65°	718.8	821.9	949.7	1043.2	1072.0
67.5°	636.4	738.1	868.6	960.7	997.8
70°	545.6	652.9	786.2	881.0	912.6
72.5°	456.3	567.6	703.7	805.4	841.1
75°	373.8	482.4	624.0	722.9	762.8
77.5°	294.1	404.1	547.0	648.7	683.1
80°	214.4	329.9	475.6	575.9	608.9
82.5°	141.6	262.5	406.8	507.2	542.9
85°	82.5	204.8	346.4	442.6	481.0
87.5°	35.7	155.3	290.0	384.8	416.4
90°	1.4	115.5	244.6	336.7	369.7
92.5°	1.4	112.7	239.1	329.9	361.5
95°	1.4	110.0	237.8	325.7	357.3
97.5°	1.4	108.6	235.0	323.0	353.2
100°	1.4	104.5	230.9	317.5	347.7
102.5°	1.4	99.0	226.8	312.0	340.9
105°	1.4	94.8	222.7	306.5	334.0
107.5°	1.4	90.7	215.8	299.6	327.1
110°	1.4	86.6	204.8	292.8	320.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	85.2	196.5	283.1	312.0
115°	2.7	82.5	188.3	272.1	302.4
117.5°	2.7	81.1	181.4	261.1	292.8
120°	2.7	77.0	174.6	251.5	281.8
122.5°	2.7	72.8	167.7	241.9	272.1
125°	2.7	70.1	160.8	232.3	261.1
127.5°	2.7	66.0	155.3	222.7	248.8
130°	2.7	63.2	148.4	211.7	237.8
132.5°	2.7	59.1	141.6	200.7	225.4
135°	2.7	55.0	134.7	191.0	214.4
137.5°	2.7	49.5	126.4	180.0	202.0
140°	2.7	45.4	115.5	169.1	189.7
142.5°	2.7	42.6	104.5	156.7	175.9
145°	2.7	39.9	93.5	144.3	162.2
147.5°	2.7	37.1	83.8	131.9	148.4
150°	2.7	33.0	74.2	120.9	134.7
152.5°	4.1	30.2	66.0	107.2	120.9
155°	4.1	27.5	57.7	92.1	107.2
157.5°	4.1	24.7	49.5	77.0	93.5
160°	4.1	22.0	42.6	63.2	79.7
162.5°	4.1	20.6	37.1	52.2	67.3
165°	4.1	17.9	31.6	42.6	55.0
167.5°	4.1	13.7	26.1	33.0	45.4
170°	4.1	11.0	20.6	23.4	34.4
172.5°	4.1	8.2	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	2.7
180°	2.7	2.7	2.7	2.7	2.7

(END OF REPORT)