

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: P566928

Luminaire Tested: **4SNX-87HL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566928
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-LW-UNV-L840-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

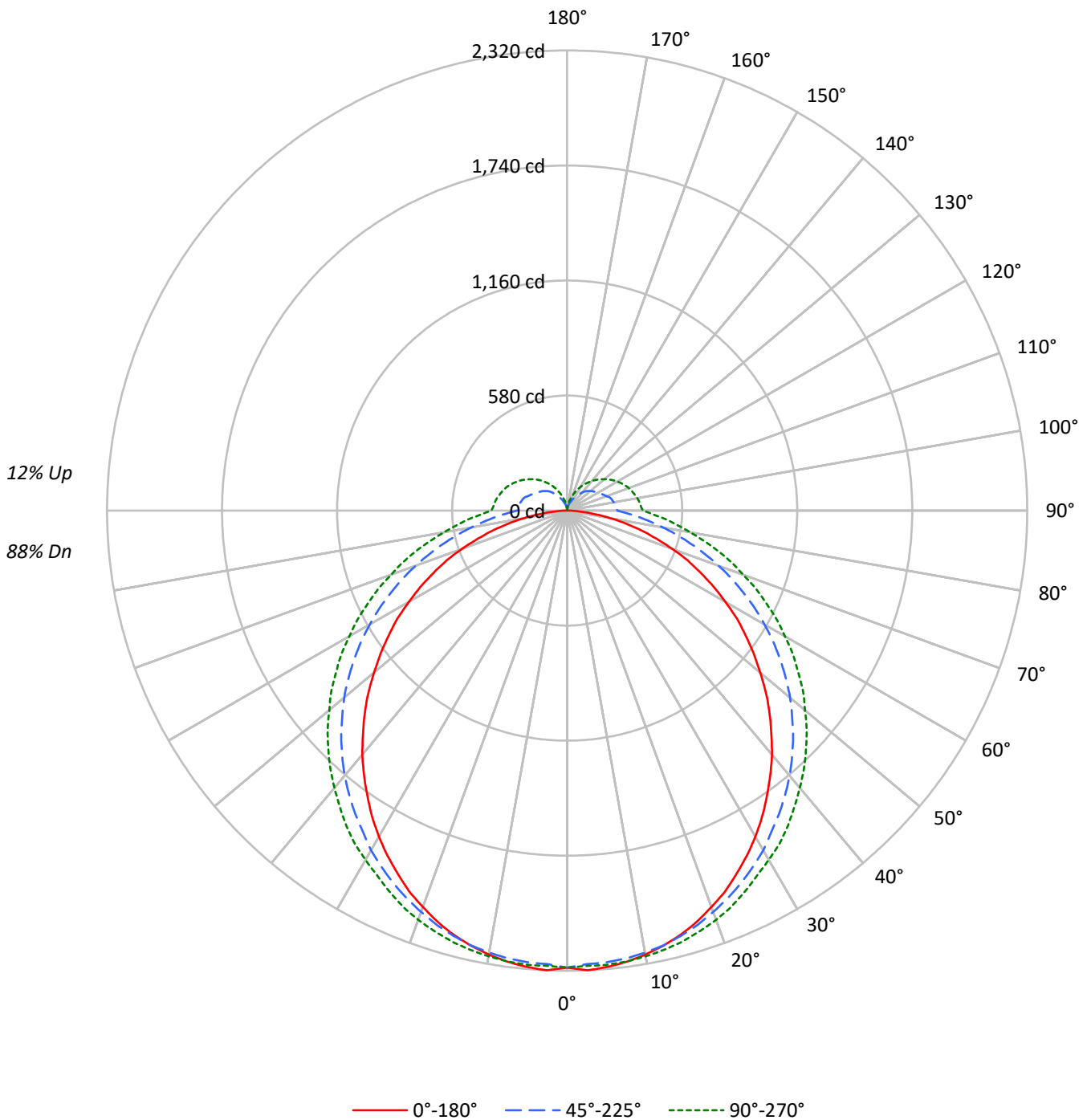
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8296.0 lumens
Efficiency: N/A
Efficacy: 133.4 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): 62.2
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	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°	24803	24803	24803
5°	24869	23661	23468
10°	24664	22728	22315
15°	24393	21803	21263
20°	23997	20866	20245
25°	23536	19956	19204
30°	23036	19066	18246
35°	22419	18133	17385
40°	21815	17260	16449
45°	21093	16339	15558
50°	20263	15389	14610
55°	19452	14346	13671
60°	18513	13248	12661
65°	17372	12055	11616
70°	15927	10763	10484
75°	13907	9349	9401
80°	11111	7933	8160
85°	7128	6574	7123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.8	2.6
10°-20°	629.3	7.6
20°-30°	957.3	11.5
30°-40°	1164.0	14.0
40°-50°	1231.5	14.8
50°-60°	1154.3	13.9
60°-70°	949.6	11.4
70°-80°	657.1	7.9
80°-90°	365.4	4.4
90°-100°	240.7	2.9
100°-110°	215.8	2.6
110°-120°	178.7	2.2
120°-130°	138.1	1.7
130°-140°	97.8	1.2
140°-150°	59.0	0.7
150°-160°	28.3	0.3
160°-170°	9.3	0.1
170°-180°	1.1	0.0
0°-30°	1805.3	21.8
0°-40°	2969.3	35.8
0°-60°	5355.1	64.6
0°-90°	7327.2	88.3
90°-120°	635.2	7.7
90°-150°	930.1	11.2
90°-180°	969.0	11.7
0°-180°	8296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2304	2304	2304	2304	2304	
5°	2310	2306	2286	2304	2299	219
15°	2213	2220	2219	2249	2249	624
25°	2020	2049	2073	2118	2120	931
35°	1756	1803	1864	1924	1941	1099
45°	1443	1519	1611	1684	1703	1113
55°	1098	1196	1311	1394	1422	983
65°	743	850	982	1078	1108	737
75°	386	499	645	747	788	410
85°	85	212	358	458	497	98
90°	1	119	253	348	382	6
95°	1	114	246	337	369	1
105°	1	98	230	317	345	1
115°	3	85	195	281	312	2
125°	3	72	166	240	270	3
135°	3	57	139	198	222	2
145°	3	41	97	149	168	2
155°	4	28	60	95	111	2
165°	4	18	33	44	57	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



TEST NUMBER: P566928

CATALOG NUMBER: 4SNX-87HL-LW-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2304.3	2304.3	2304.3	2304.3	2304.3
2.5°	2319.9	2312.8	2288.7	2304.3	2297.2
5°	2310.0	2305.7	2285.8	2304.3	2298.6
7.5°	2294.4	2292.9	2277.3	2298.6	2292.9
10°	2273.1	2275.9	2263.1	2285.8	2281.6
12.5°	2246.1	2250.3	2244.6	2270.2	2267.4
15°	2213.4	2220.5	2219.1	2248.9	2248.9
17.5°	2173.6	2183.6	2189.2	2223.3	2223.3
20°	2126.7	2142.4	2153.7	2190.7	2196.3
22.5°	2079.8	2098.3	2115.4	2153.7	2162.2
25°	2020.2	2048.6	2072.7	2118.2	2119.6
27.5°	1961.9	1993.2	2025.9	2069.9	2074.2
30°	1898.0	1937.8	1977.6	2020.2	2033.0
32.5°	1829.8	1873.8	1917.9	1974.7	1991.8
35°	1755.9	1802.8	1863.9	1923.6	1940.6
37.5°	1682.1	1734.6	1805.7	1866.7	1882.4
40°	1606.8	1665.0	1744.6	1807.1	1825.5
42.5°	1522.9	1594.0	1679.2	1746.0	1767.3
45°	1443.4	1518.7	1611.0	1683.5	1703.4
47.5°	1359.6	1439.1	1538.6	1615.3	1638.0
50°	1270.1	1361.0	1467.5	1544.3	1565.6
52.5°	1186.2	1278.6	1390.8	1470.4	1500.2
55°	1098.2	1196.2	1311.3	1393.7	1422.1
57.5°	1015.8	1109.5	1233.1	1315.5	1351.0
60°	922.0	1025.7	1149.3	1238.8	1267.2
62.5°	833.9	939.1	1066.9	1159.3	1191.9
65°	743.0	849.6	981.7	1078.3	1108.1
67.5°	657.8	762.9	897.9	993.0	1031.4
70°	564.0	674.8	812.6	910.6	943.3
72.5°	471.7	586.7	727.4	832.5	869.4
75°	386.4	498.7	645.0	747.3	788.5
77.5°	304.0	417.7	565.4	670.6	706.1
80°	221.6	341.0	491.5	595.3	629.4
82.5°	146.3	271.3	420.5	524.2	561.2
85°	85.2	211.7	358.0	457.5	497.2
87.5°	36.9	160.5	299.8	397.8	430.5
90°	1.4	119.3	252.9	348.1	382.2
92.5°	1.4	116.5	247.2	341.0	373.6
95°	1.4	113.7	245.8	336.7	369.4
97.5°	1.4	112.2	242.9	333.9	365.1
100°	1.4	108.0	238.7	328.2	359.4
102.5°	1.4	102.3	234.4	322.5	352.3
105°	1.4	98.0	230.1	316.8	345.2
107.5°	1.4	93.8	223.0	309.7	338.1
110°	1.4	89.5	211.7	302.6	331.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	88.1	203.2	292.7	322.5
115°	2.8	85.2	194.6	281.3	312.5
117.5°	2.8	83.8	187.5	269.9	302.6
120°	2.8	79.6	180.4	260.0	291.2
122.5°	2.8	75.3	173.3	250.0	281.3
125°	2.8	72.5	166.2	240.1	269.9
127.5°	2.8	68.2	160.5	230.1	257.1
130°	2.8	65.4	153.4	218.8	245.8
132.5°	2.8	61.1	146.3	207.4	233.0
135°	2.8	56.8	139.2	197.5	221.6
137.5°	2.8	51.1	130.7	186.1	208.8
140°	2.8	46.9	119.3	174.7	196.1
142.5°	2.8	44.0	108.0	162.0	181.8
145°	2.8	41.2	96.6	149.2	167.6
147.5°	2.8	38.4	86.7	136.4	153.4
150°	2.8	34.1	76.7	125.0	139.2
152.5°	4.3	31.3	68.2	110.8	125.0
155°	4.3	28.4	59.7	95.2	110.8
157.5°	4.3	25.6	51.1	79.6	96.6
160°	4.3	22.7	44.0	65.4	82.4
162.5°	4.3	21.3	38.4	54.0	69.6
165°	4.3	18.5	32.7	44.0	56.8
167.5°	4.3	14.2	27.0	34.1	46.9
170°	4.3	11.4	21.3	24.2	35.5
172.5°	4.3	8.5	15.6	17.0	18.5
175°	4.3	7.1	9.9	9.9	5.7
177.5°	4.3	5.7	5.7	5.7	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)