

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: P566927

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566927
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-L835-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

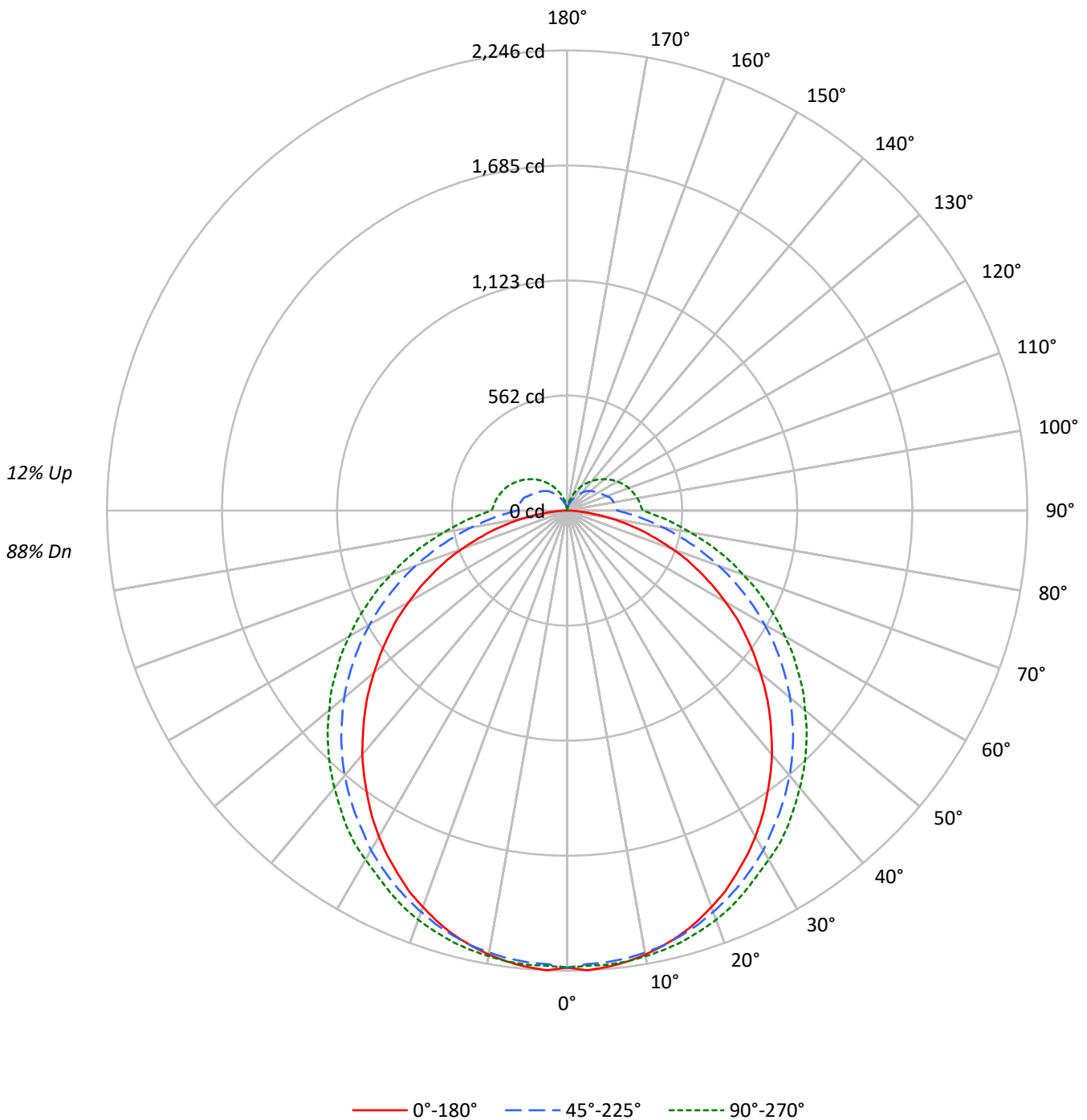
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8031.0 lumens
Efficiency: N/A
Efficacy: 129.1 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

TEST NUMBER: P566927
CATALOG NUMBER: 4SNX-87HL-LW-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566927

CATALOG NUMBER: 4SNX-87HL-LW-UNV-L835-CD

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°	24011	24011	24011
5°	24074	22906	22718
10°	23875	22002	21602
15°	23614	21106	20584
20°	23231	20199	19599
25°	22783	19318	18590
30°	22301	18457	17662
35°	21703	17554	16829
40°	21117	16708	15924
45°	20420	15818	15061
50°	19615	14898	14143
55°	18830	13888	13235
60°	17922	12825	12256
65°	16818	11669	11245
70°	15418	10420	10149
75°	13464	9050	9101
80°	10755	7679	7899
85°	6902	6365	6896



TEST NUMBER: P566927

CATALOG NUMBER: 4SNX-87HL-LW-UNV-L835-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	2.6
10°-20°	609.2	7.6
20°-30°	926.7	11.5
30°-40°	1126.8	14.0
40°-50°	1192.1	14.8
50°-60°	1117.5	13.9
60°-70°	919.3	11.4
70°-80°	636.1	7.9
80°-90°	353.7	4.4
90°-100°	233.0	2.9
100°-110°	208.9	2.6
110°-120°	173.0	2.2
120°-130°	133.7	1.7
130°-140°	94.7	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°	1747.7	21.8
0°-40°	2874.5	35.8
0°-60°	5184.1	64.6
0°-90°	7093.1	88.3
90°-120°	614.9	7.7
90°-150°	900.4	11.2
90°-180°	938.0	11.7
0°-180°	8031.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2231	2231	2231	2231	2231	
5°	2236	2232	2213	2231	2225	212
15°	2143	2150	2148	2177	2177	604
25°	1956	1983	2006	2050	2052	901
35°	1700	1745	1804	1862	1879	1064
45°	1397	1470	1560	1630	1649	1077
55°	1063	1158	1269	1349	1377	952
65°	719	822	950	1044	1073	713
75°	374	483	624	723	763	397
85°	82	205	347	443	481	95
90°	1	116	245	337	370	5
95°	1	110	238	326	358	1
105°	1	95	223	307	334	1
115°	3	82	188	272	303	2
125°	3	70	161	232	261	3
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	



TEST NUMBER: P566927

CATALOG NUMBER: 4SNX-87HL-LW-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2230.7	2230.7	2230.7	2230.7	2230.7
2.5°	2245.8	2239.0	2215.6	2230.7	2223.8
5°	2236.2	2232.1	2212.8	2230.7	2225.2
7.5°	2221.1	2219.7	2204.6	2225.2	2219.7
10°	2200.4	2203.2	2190.8	2212.8	2208.7
12.5°	2174.3	2178.4	2172.9	2197.7	2194.9
15°	2142.7	2149.6	2148.2	2177.1	2177.1
17.5°	2104.2	2113.8	2119.3	2152.3	2152.3
20°	2058.8	2073.9	2084.9	2120.7	2126.2
22.5°	2013.4	2031.3	2047.8	2084.9	2093.2
25°	1955.6	1983.2	2006.5	2050.5	2051.9
27.5°	1899.3	1929.5	1961.1	2003.8	2007.9
30°	1837.4	1875.9	1914.4	1955.6	1968.0
32.5°	1771.4	1814.0	1856.6	1911.6	1928.1
35°	1699.8	1745.2	1804.4	1862.1	1878.6
37.5°	1628.3	1679.2	1748.0	1807.1	1822.2
40°	1555.4	1611.8	1688.8	1749.4	1767.2
42.5°	1474.3	1543.1	1625.6	1690.2	1710.8
45°	1397.3	1470.2	1559.6	1629.7	1649.0
47.5°	1316.1	1393.2	1489.4	1563.7	1585.7
50°	1229.5	1317.5	1420.7	1494.9	1515.6
52.5°	1148.4	1237.8	1346.4	1423.4	1452.3
55°	1063.1	1158.0	1269.4	1349.1	1376.7
57.5°	983.3	1074.1	1193.7	1273.5	1307.9
60°	892.6	993.0	1112.6	1199.2	1226.7
62.5°	807.3	909.1	1032.8	1122.2	1153.9
65°	719.3	822.4	950.3	1043.8	1072.7
67.5°	636.8	738.5	869.2	961.3	998.5
70°	546.0	653.3	786.7	881.6	913.2
72.5°	456.6	568.0	704.1	805.9	841.7
75°	374.1	482.7	624.4	723.4	763.3
77.5°	294.3	404.3	547.4	649.1	683.5
80°	214.5	330.1	475.8	576.2	609.2
82.5°	141.7	262.7	407.1	507.5	543.2
85°	82.5	204.9	346.6	442.8	481.3
87.5°	35.8	155.4	290.2	385.1	416.7
90°	1.4	115.5	244.8	336.9	369.9
92.5°	1.4	112.8	239.3	330.1	361.7
95°	1.4	110.0	237.9	325.9	357.6
97.5°	1.4	108.6	235.2	323.2	353.4
100°	1.4	104.5	231.0	317.7	347.9
102.5°	1.4	99.0	226.9	312.2	341.1
105°	1.4	94.9	222.8	306.7	334.2
107.5°	1.4	90.8	215.9	299.8	327.3
110°	1.4	86.6	204.9	292.9	320.4



TEST NUMBER: P566927

CATALOG NUMBER: 4SNX-87HL-LW-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	85.3	196.7	283.3	312.2
115°	2.8	82.5	188.4	272.3	302.6
117.5°	2.8	81.1	181.5	261.3	292.9
120°	2.8	77.0	174.7	251.7	281.9
122.5°	2.8	72.9	167.8	242.0	272.3
125°	2.8	70.1	160.9	232.4	261.3
127.5°	2.8	66.0	155.4	222.8	248.9
130°	2.8	63.3	148.5	211.8	237.9
132.5°	2.8	59.1	141.7	200.8	225.5
135°	2.8	55.0	134.8	191.2	214.5
137.5°	2.8	49.5	126.5	180.2	202.2
140°	2.8	45.4	115.5	169.2	189.8
142.5°	2.8	42.6	104.5	156.8	176.0
145°	2.8	39.9	93.5	144.4	162.3
147.5°	2.8	37.1	83.9	132.0	148.5
150°	2.8	33.0	74.3	121.0	134.8
152.5°	4.1	30.3	66.0	107.3	121.0
155°	4.1	27.5	57.8	92.1	107.3
157.5°	4.1	24.8	49.5	77.0	93.5
160°	4.1	22.0	42.6	63.3	79.8
162.5°	4.1	20.6	37.1	52.3	67.4
165°	4.1	17.9	31.6	42.6	55.0
167.5°	4.1	13.8	26.1	33.0	45.4
170°	4.1	11.0	20.6	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)