

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: P566926

Luminaire Tested: **4SNX-87HL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566926
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-L830-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

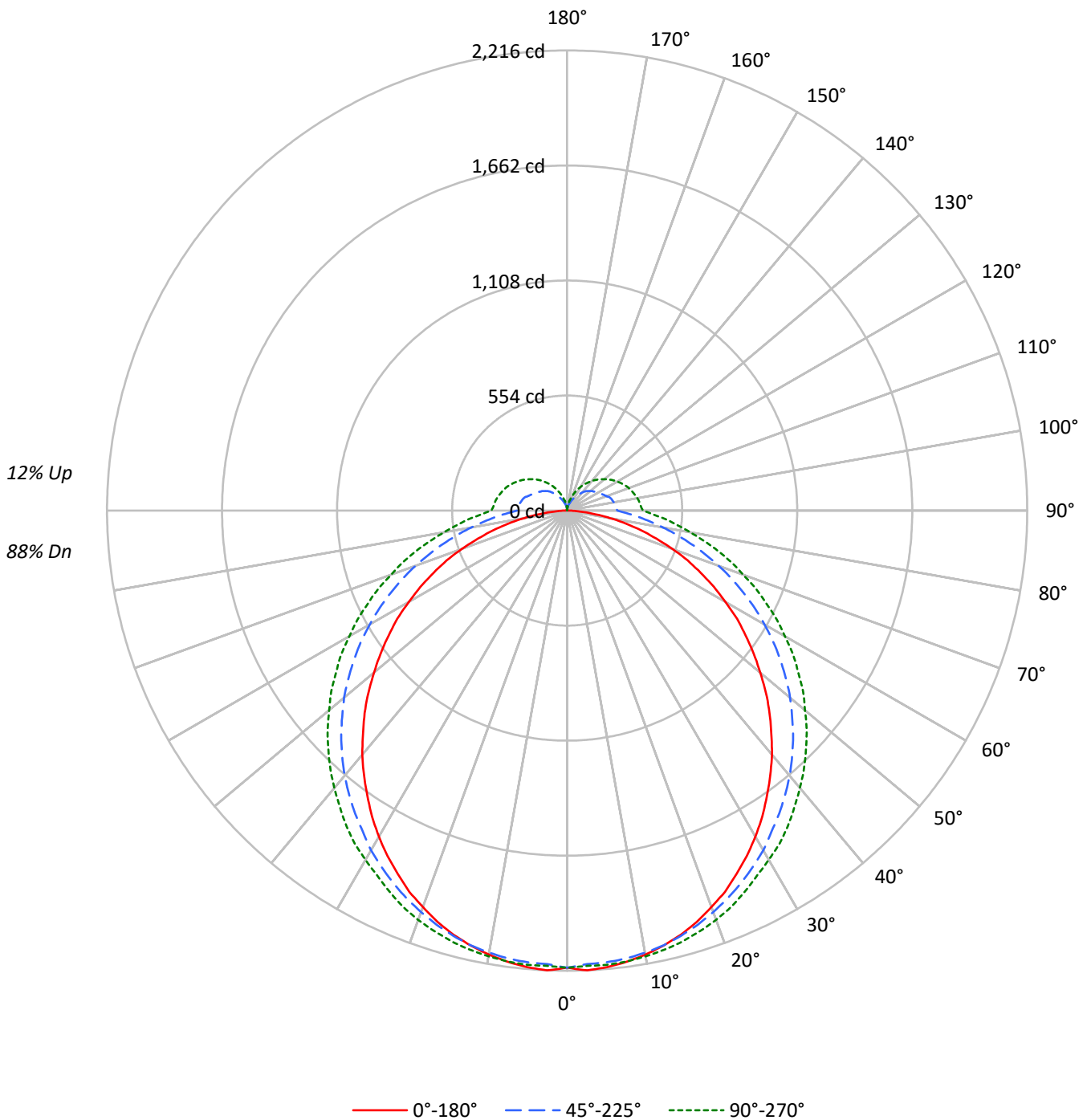
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7925.0 lumens
Efficiency: N/A
Efficacy: 127.4 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 (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°	23695	23695	23695
5°	23757	22603	22418
10°	23560	21712	21316
15°	23302	20827	20311
20°	22924	19933	19340
25°	22483	19063	18345
30°	22006	18213	17429
35°	21417	17321	16607
40°	20839	16488	15714
45°	20149	15609	14862
50°	19356	14701	13956
55°	18582	13704	13060
60°	17685	12656	12095
65°	16595	11516	11097
70°	15215	10282	10015
75°	13285	8930	8980
80°	10614	7579	7795
85°	6810	6281	6805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.0	2.6
10°-20°	601.1	7.6
20°-30°	914.5	11.5
30°-40°	1111.9	14.0
40°-50°	1176.4	14.8
50°-60°	1102.7	13.9
60°-70°	907.2	11.4
70°-80°	627.7	7.9
80°-90°	349.0	4.4
90°-100°	229.9	2.9
100°-110°	206.2	2.6
110°-120°	170.7	2.2
120°-130°	131.9	1.7
130°-140°	93.4	1.2
140°-150°	56.3	0.7
150°-160°	27.1	0.3
160°-170°	8.9	0.1
170°-180°	1.1	0.0
0°-30°	1724.6	21.8
0°-40°	2836.5	35.8
0°-60°	5115.6	64.6
0°-90°	6999.5	88.3
90°-120°	606.8	7.7
90°-150°	888.5	11.2
90°-180°	926.0	11.7
0°-180°	7925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2201	2201	2201	2201	2201	
5°	2207	2203	2184	2201	2196	209
15°	2114	2121	2120	2148	2148	596
25°	1930	1957	1980	2024	2025	890
35°	1677	1722	1780	1838	1854	1050
45°	1379	1451	1539	1608	1627	1063
55°	1049	1143	1253	1331	1358	939
65°	710	812	938	1030	1059	704
75°	369	476	616	714	753	392
85°	81	202	342	437	475	94
90°	1	114	242	332	365	5
95°	1	109	235	322	353	1
105°	1	94	220	303	330	1
115°	3	81	186	269	299	2
125°	3	69	159	229	258	2
135°	3	54	133	189	212	2
145°	3	39	92	142	160	2
155°	4	27	57	91	106	2
165°	4	18	31	42	54	1
175°	4	7	10	10	5	0
180°	3	3	3	3	3	



TEST NUMBER: P566926

CATALOG NUMBER: 4SNX-87HL-LW-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2201.3	2201.3	2201.3	2201.3	2201.3
2.5°	2216.2	2209.4	2186.3	2201.3	2194.5
5°	2206.7	2202.6	2183.6	2201.3	2195.8
7.5°	2191.8	2190.4	2175.5	2195.8	2190.4
10°	2171.4	2174.1	2161.9	2183.6	2179.5
12.5°	2145.6	2149.7	2144.3	2168.7	2166.0
15°	2114.4	2121.2	2119.8	2148.3	2148.3
17.5°	2076.4	2085.9	2091.3	2123.9	2123.9
20°	2031.6	2046.5	2057.4	2092.7	2098.1
22.5°	1986.8	2004.5	2020.8	2057.4	2065.5
25°	1929.8	1957.0	1980.0	2023.5	2024.8
27.5°	1874.2	1904.0	1935.3	1977.3	1981.4
30°	1813.1	1851.1	1889.1	1929.8	1942.0
32.5°	1748.0	1790.0	1832.1	1886.4	1902.7
35°	1677.4	1722.2	1780.5	1837.5	1853.8
37.5°	1606.8	1657.1	1724.9	1783.3	1798.2
40°	1534.9	1590.6	1666.6	1726.3	1743.9
42.5°	1454.8	1522.7	1604.1	1667.9	1688.3
45°	1378.8	1450.8	1539.0	1608.2	1627.2
47.5°	1298.8	1374.8	1469.8	1543.1	1564.8
50°	1213.3	1300.1	1401.9	1475.2	1495.6
52.5°	1133.2	1221.4	1328.6	1404.6	1433.1
55°	1049.1	1142.7	1252.6	1331.3	1358.5
57.5°	970.3	1059.9	1178.0	1256.7	1290.6
60°	880.8	979.8	1097.9	1183.4	1210.6
62.5°	796.6	897.1	1019.2	1107.4	1138.6
65°	709.8	811.6	937.8	1030.1	1058.6
67.5°	628.3	728.8	857.7	948.6	985.3
70°	538.8	644.6	776.3	869.9	901.1
72.5°	450.6	560.5	694.8	795.3	830.6
75°	369.1	476.4	616.1	713.8	753.2
77.5°	290.4	399.0	540.1	640.6	674.5
80°	211.7	325.7	469.6	568.6	601.2
82.5°	139.8	259.2	401.7	500.8	536.1
85°	81.4	202.2	342.0	437.0	475.0
87.5°	35.3	153.4	286.4	380.0	411.2
90°	1.4	114.0	241.6	332.5	365.1
92.5°	1.4	111.3	236.1	325.7	356.9
95°	1.4	108.6	234.8	321.6	352.9
97.5°	1.4	107.2	232.1	318.9	348.8
100°	1.4	103.1	228.0	313.5	343.4
102.5°	1.4	97.7	223.9	308.1	336.6
105°	1.4	93.6	219.9	302.6	329.8
107.5°	1.4	89.6	213.1	295.9	323.0
110°	1.4	85.5	202.2	289.1	316.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	84.1	194.1	279.6	308.1
115°	2.7	81.4	185.9	268.7	298.6
117.5°	2.7	80.1	179.1	257.9	289.1
120°	2.7	76.0	172.4	248.4	278.2
122.5°	2.7	71.9	165.6	238.9	268.7
125°	2.7	69.2	158.8	229.4	257.9
127.5°	2.7	65.1	153.4	219.9	245.6
130°	2.7	62.4	146.6	209.0	234.8
132.5°	2.7	58.4	139.8	198.1	222.6
135°	2.7	54.3	133.0	188.6	211.7
137.5°	2.7	48.9	124.9	177.8	199.5
140°	2.7	44.8	114.0	166.9	187.3
142.5°	2.7	42.1	103.1	154.7	173.7
145°	2.7	39.4	92.3	142.5	160.1
147.5°	2.7	36.6	82.8	130.3	146.6
150°	2.7	32.6	73.3	119.4	133.0
152.5°	4.1	29.9	65.1	105.9	119.4
155°	4.1	27.1	57.0	90.9	105.9
157.5°	4.1	24.4	48.9	76.0	92.3
160°	4.1	21.7	42.1	62.4	78.7
162.5°	4.1	20.4	36.6	51.6	66.5
165°	4.1	17.6	31.2	42.1	54.3
167.5°	4.1	13.6	25.8	32.6	44.8
170°	4.1	10.9	20.4	23.1	33.9
172.5°	4.1	8.1	14.9	16.3	17.6
175°	4.1	6.8	9.5	9.5	5.4
177.5°	4.1	5.4	5.4	5.4	2.7
180°	2.7	2.7	2.7	2.7	2.7

(END OF REPORT)