

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: P567546

Luminaire Tested: **8SNX-174HL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-174HL-LC-UNV-L830-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

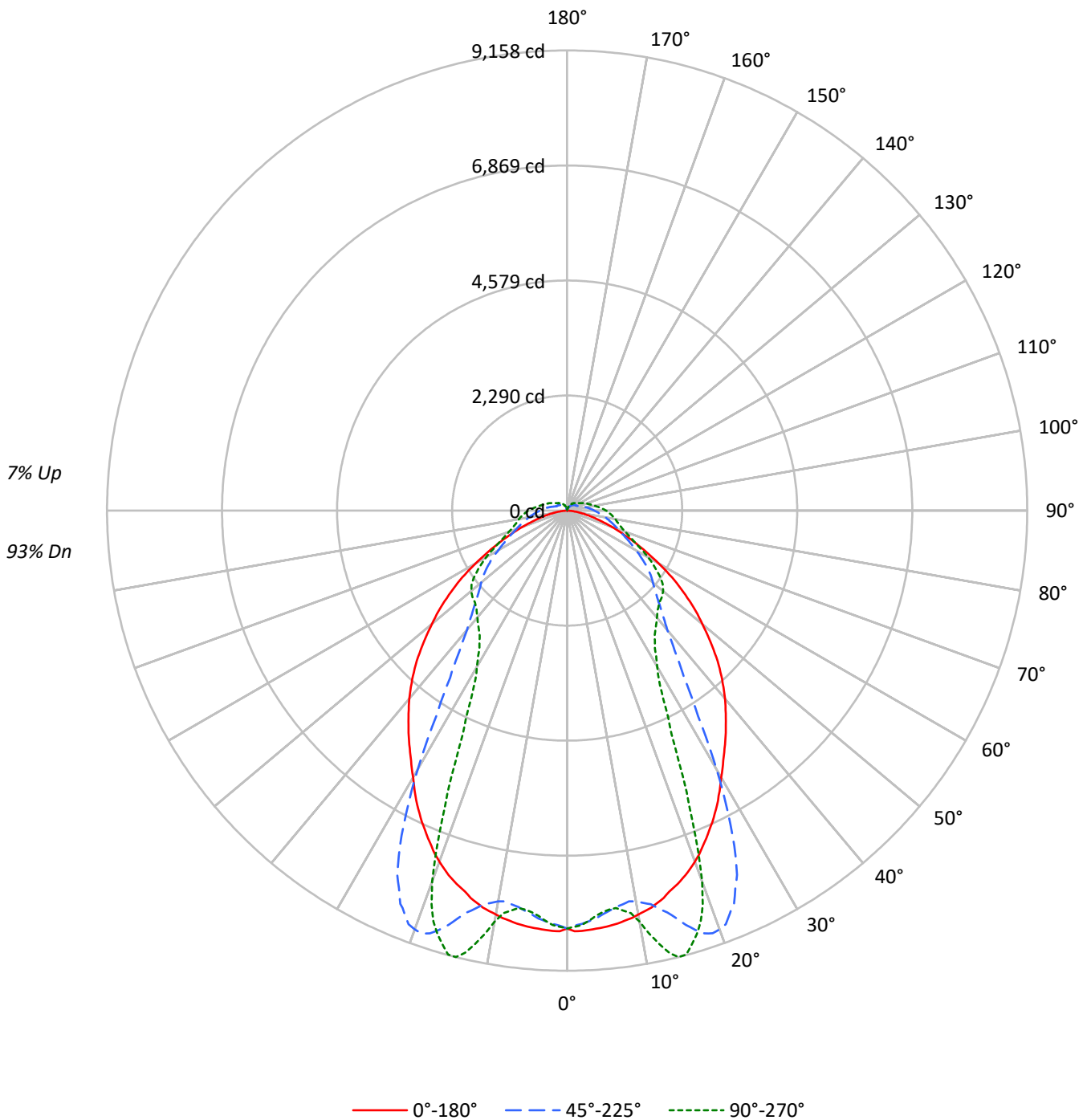
Lumens per Lamp: N/A
Luminaire Lumens: 18484.0 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 124.4
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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	44761	44761	44761
5°	44896	41827	40972
10°	44440	39761	40629
15°	43487	41403	43252
20°	42254	43164	36199
25°	40216	38731	22258
30°	37658	28855	16109
35°	35582	19920	13589
40°	33731	15463	12524
45°	31562	13167	11844
50°	28706	11819	11627
55°	25690	10691	10757
60°	21785	9251	9305
65°	17717	8058	7766
70°	13903	7244	6838
75°	10782	6736	6376
80°	7587	6379	6312
85°	4224	6087	6267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.9	4.2
10°-20°	2364.8	12.8
20°-30°	3184.2	17.2
30°-40°	3013.5	16.3
40°-50°	2659.9	14.4
50°-60°	2160.4	11.7
60°-70°	1469.3	7.9
70°-80°	945.4	5.1
80°-90°	628.7	3.4
90°-100°	432.0	2.3
100°-110°	290.0	1.6
110°-120°	204.5	1.1
120°-130°	146.1	0.8
130°-140°	103.1	0.6
140°-150°	64.0	0.3
150°-160°	31.2	0.2
160°-170°	10.9	0.1
170°-180°	1.9	0.0
0°-30°	6322.9	34.2
0°-40°	9336.4	50.5
0°-60°	14156.7	76.6
0°-90°	17200.1	93.1
90°-120°	926.6	5.0
90°-150°	1239.9	6.7
90°-180°	1284.0	6.9
0°-180°	18484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8317	8317	8317	8317	8317	
5°	8325	8249	8071	8066	8026	790
15°	7848	7798	8399	9141	9149	2213
25°	6838	8108	8001	5811	4913	3138
35°	5495	7710	4064	3130	3034	3438
45°	4233	5187	2571	2540	2594	3250
55°	2819	3068	1930	2156	2238	2518
65°	1453	1654	1292	1436	1482	1459
75°	559	782	912	1022	1070	608
85°	85	333	646	818	875	111
90°	3	231	539	725	773	5
95°	3	178	454	615	658	2
105°	6	124	299	420	471	6
115°	6	107	220	313	353	7
125°	8	90	189	237	254	8
135°	11	71	155	198	209	9
145°	11	51	110	152	166	8
155°	14	31	68	102	116	7
165°	14	20	37	51	62	4
175°	17	17	17	17	14	2
180°	14	14	14	14	14	



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CATALOG NUMBER: 8SNX-174HL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8316.9	8316.9	8316.9	8316.9	8316.9
1°	8373.3	8347.9	8263.3	8308.4	8285.8
2°	8370.5	8328.2	8232.2	8283.0	8254.8
3°	8356.4	8311.2	8187.1	8218.1	8175.8
4°	8342.3	8288.7	8139.1	8139.1	8091.1
5°	8325.4	8249.2	8071.4	8065.7	8026.2
6°	8305.6	8218.1	8012.1	8006.5	7983.9
7°	8277.4	8164.5	7947.2	7986.7	7969.8
8°	8243.5	8113.7	7913.3	8012.1	8037.5
9°	8212.5	8051.6	7873.8	8091.1	8110.9
10°	8161.7	7995.2	7899.2	8249.2	8308.4
11°	8119.3	7947.2	7955.7	8404.4	8582.2
12°	8077.0	7896.4	8009.3	8599.1	8816.4
13°	8006.5	7856.9	8127.8	8810.8	9033.7
14°	7944.4	7825.8	8243.5	9025.3	9157.9
15°	7848.4	7797.6	8398.7	9141.0	9149.4
16°	7783.5	7777.9	8579.3	9149.4	8991.4
17°	7710.1	7769.4	8726.1	9002.7	8816.4
18°	7628.3	7786.3	8847.5	8819.2	8604.7
19°	7535.2	7803.3	8898.3	8565.2	8288.7
20°	7433.6	7828.7	8870.0	8300.0	7854.1
21°	7332.0	7862.5	8816.4	8020.6	7284.0
22.5°	7142.9	7944.4	8562.4	7236.0	6341.4
23°	7089.3	7961.3	8503.2	6990.5	6095.9
24°	6956.6	8031.9	8232.2	6417.6	5446.8
25°	6838.1	8108.1	8000.8	5810.8	4913.4
26°	6705.4	8164.5	7650.9	5252.0	4586.0
27°	6575.6	8198.4	7252.9	4817.4	4219.1
28°	6426.0	8235.0	6821.1	4442.1	3942.5
29°	6284.9	8240.7	6395.0	4142.9	3725.2
30°	6132.5	8212.5	5946.3	3903.0	3589.8
32.5°	5799.5	8057.3	4848.5	3445.9	3251.1
35°	5494.7	7710.1	4063.9	3129.8	3033.8
37.5°	5187.1	7162.6	3513.6	2932.2	2901.2
40°	4885.1	6513.5	3098.7	2774.2	2779.8
42.5°	4566.2	5844.7	2813.7	2644.4	2669.8
45°	4233.2	5187.1	2571.0	2539.9	2593.6
47.5°	3863.5	4586.0	2379.1	2472.2	2554.0
50°	3513.6	3990.5	2229.5	2407.3	2492.0
52.5°	3180.6	3502.3	2094.0	2297.2	2396.0
55°	2819.3	3067.7	1930.4	2156.1	2238.0
57.5°	2475.0	2675.4	1758.2	1981.2	2054.5
60°	2096.9	2288.8	1583.2	1792.1	1862.6
62.5°	1755.4	1958.6	1433.7	1603.0	1659.4
65°	1453.4	1653.8	1292.5	1436.5	1481.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1185.3	1399.8	1176.8	1298.2	1340.5
70°	934.1	1159.9	1075.2	1185.3	1230.5
72.5°	730.9	959.5	990.6	1092.2	1137.3
75°	558.8	781.7	911.6	1021.6	1069.6
77.5°	414.9	637.8	838.2	965.2	1016.0
80°	273.7	508.0	773.3	914.4	973.6
82.5°	172.2	409.2	708.4	863.6	925.7
85°	84.7	333.0	646.3	818.4	874.9
87.5°	28.2	276.6	589.8	773.3	821.2
90°	2.8	231.4	539.0	725.3	773.3
92.5°	2.8	200.4	496.7	668.9	716.8
95°	2.8	177.8	454.4	615.2	657.6
97.5°	2.8	160.9	414.9	558.8	603.9
100°	2.8	143.9	372.5	505.2	553.1
102.5°	5.6	132.6	335.8	460.0	510.8
105°	5.6	124.2	299.1	420.5	471.3
107.5°	5.6	118.5	268.1	389.5	437.4
110°	5.6	112.9	245.5	361.2	412.0
112.5°	5.6	110.1	231.4	335.8	383.8
115°	5.6	107.2	220.1	313.3	352.8
117.5°	8.5	104.4	211.7	290.7	321.7
120°	8.5	98.8	206.0	270.9	296.3
122.5°	8.5	93.1	197.6	254.0	273.7
125°	8.5	90.3	189.1	237.1	254.0
127.5°	8.5	84.7	180.6	223.0	239.9
130°	11.3	79.0	172.2	211.7	225.8
132.5°	11.3	73.4	163.7	206.0	217.3
135°	11.3	70.6	155.2	197.6	208.8
137.5°	11.3	64.9	146.8	189.1	200.4
140°	11.3	59.3	135.5	177.8	189.1
142.5°	11.3	56.4	124.2	166.5	177.8
145°	11.3	50.8	110.1	152.4	166.5
147.5°	14.1	48.0	98.8	141.1	152.4
150°	14.1	42.3	87.5	129.8	141.1
152.5°	14.1	36.7	76.2	115.7	127.0
155°	14.1	31.0	67.7	101.6	115.7
157.5°	14.1	28.2	59.3	84.7	101.6
160°	14.1	25.4	50.8	73.4	87.5
162.5°	14.1	22.6	45.2	62.1	76.2
165°	14.1	19.8	36.7	50.8	62.1
167.5°	16.9	19.8	31.0	39.5	50.8
170°	16.9	19.8	25.4	31.0	39.5
172.5°	16.9	16.9	19.8	22.6	25.4
175°	16.9	16.9	16.9	16.9	14.1
177.5°	16.9	16.9	16.9	14.1	14.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	14.1	14.1	14.1	14.1	14.1

(END OF REPORT)