

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: P567551

Luminaire Tested: **8SNX-174HL-LC-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567551
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-L935-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

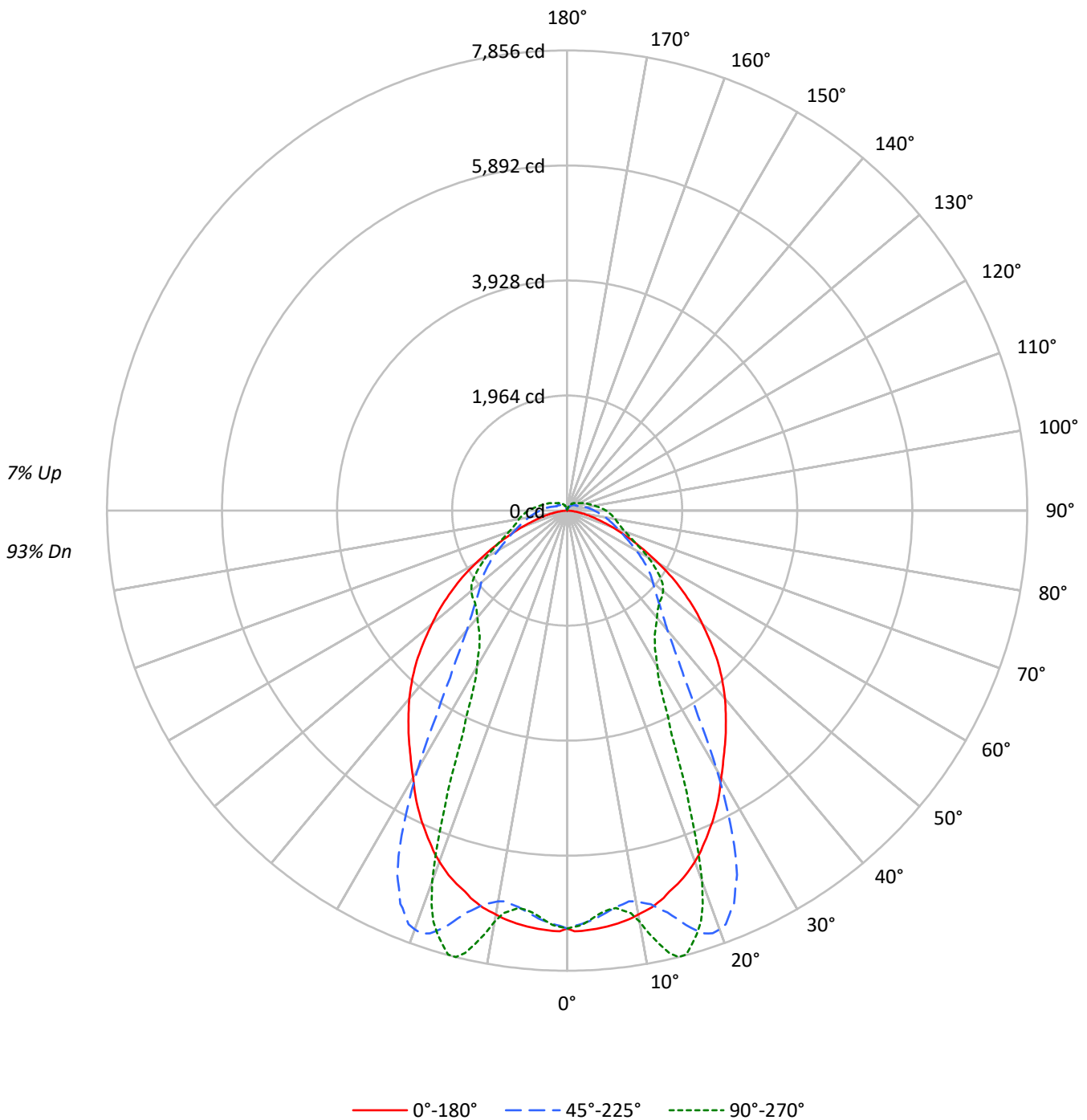
Lumens per Lamp: N/A
Luminaire Lumens: 15857.0 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

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	
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°	38400	38400	38400
5°	38515	35882	35149
10°	38124	34110	34855
15°	37307	35519	37105
20°	36249	37030	31054
25°	34500	33227	19095
30°	32306	24754	13819
35°	30525	17089	11658
40°	28938	13265	10744
45°	27077	11296	10161
50°	24626	10139	9975
55°	22038	9171	9228
60°	18688	7937	7982
65°	15199	6913	6662
70°	11928	6214	5866
75°	9250	5778	5470
80°	6508	5473	5415
85°	3621	5221	5376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.9	4.2
10°-20°	2028.7	12.8
20°-30°	2731.7	17.2
30°-40°	2585.2	16.3
40°-50°	2281.9	14.4
50°-60°	1853.3	11.7
60°-70°	1260.5	7.9
70°-80°	811.1	5.1
80°-90°	539.3	3.4
90°-100°	370.6	2.3
100°-110°	248.8	1.6
110°-120°	175.5	1.1
120°-130°	125.4	0.8
130°-140°	88.5	0.6
140°-150°	54.9	0.3
150°-160°	26.8	0.2
160°-170°	9.4	0.1
170°-180°	1.6	0.0
0°-30°	5424.3	34.2
0°-40°	8009.5	50.5
0°-60°	12144.7	76.6
0°-90°	14755.6	93.1
90°-120°	794.9	5.0
90°-150°	1063.6	6.7
90°-180°	1101.0	6.9
0°-180°	15857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7135	7135	7135	7135	7135	
5°	7142	7077	6924	6919	6886	677
15°	6733	6689	7205	7842	7849	1898
25°	5866	6956	6864	4985	4215	2692
35°	4714	6614	3486	2685	2603	2950
45°	3632	4450	2206	2179	2225	2788
55°	2419	2632	1656	1850	1920	2160
65°	1247	1419	1109	1232	1271	1252
75°	479	671	782	876	918	522
85°	73	286	554	702	750	95
90°	2	198	462	622	663	4
95°	2	152	390	528	564	2
105°	5	106	257	361	404	5
115°	5	92	189	269	303	6
125°	7	78	162	203	218	7
135°	10	60	133	170	179	8
145°	10	44	94	131	143	7
155°	12	27	58	87	99	6
165°	12	17	32	44	53	4
175°	14	14	14	14	12	1
180°	12	12	12	12	12	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7134.9	7134.9	7134.9	7134.9	7134.9
1°	7183.3	7161.5	7088.9	7127.6	7108.2
2°	7180.9	7144.6	7062.2	7105.8	7081.6
3°	7168.8	7130.0	7023.5	7050.1	7013.8
4°	7156.7	7110.7	6982.3	6982.3	6941.2
5°	7142.1	7076.8	6924.2	6919.4	6885.5
6°	7125.2	7050.1	6873.4	6868.6	6849.2
7°	7101.0	7004.1	6817.7	6851.6	6837.1
8°	7071.9	6960.6	6788.7	6873.4	6895.2
9°	7045.3	6907.3	6754.8	6941.2	6958.1
10°	7001.7	6858.9	6776.6	7076.8	7127.6
11°	6965.4	6817.7	6825.0	7209.9	7362.4
12°	6929.1	6774.1	6871.0	7377.0	7563.4
13°	6868.6	6740.2	6972.7	7558.6	7749.8
14°	6815.3	6713.6	7071.9	7742.6	7856.3
15°	6733.0	6689.4	7205.1	7841.8	7849.1
16°	6677.3	6672.4	7360.0	7849.1	7713.5
17°	6614.3	6665.2	7485.9	7723.2	7563.4
18°	6544.1	6679.7	7590.0	7565.8	7381.8
19°	6464.2	6694.2	7633.6	7347.9	7110.7
20°	6377.1	6716.0	7609.4	7120.3	6737.8
21°	6289.9	6745.1	7563.4	6880.7	6248.8
22.5°	6127.7	6815.3	7345.5	6207.6	5440.1
23°	6081.7	6829.8	7294.7	5997.0	5229.5
24°	5967.9	6890.3	7062.2	5505.5	4672.6
25°	5866.2	6955.7	6863.7	4985.0	4215.1
26°	5752.4	7004.1	6563.5	4505.6	3934.2
27°	5641.1	7033.2	6222.1	4132.8	3619.5
28°	5512.8	7064.7	5851.7	3810.8	3382.2
29°	5391.7	7069.5	5486.1	3554.1	3195.8
30°	5261.0	7045.3	5101.2	3348.3	3079.6
32.5°	4975.3	6912.1	4159.4	2956.1	2789.1
35°	4713.8	6614.3	3486.3	2685.0	2602.6
37.5°	4449.9	6144.7	3014.2	2515.5	2488.9
40°	4190.9	5587.8	2658.3	2379.9	2384.7
42.5°	3917.3	5014.0	2413.8	2268.5	2290.3
45°	3631.6	4449.9	2205.6	2179.0	2225.0
47.5°	3314.4	3934.2	2041.0	2120.9	2191.1
50°	3014.2	3423.4	1912.6	2065.2	2137.8
52.5°	2728.5	3004.5	1796.4	1970.7	2055.5
55°	2418.6	2631.7	1656.0	1849.7	1919.9
57.5°	2123.3	2295.2	1508.3	1699.6	1762.5
60°	1798.8	1963.5	1358.2	1537.4	1597.9
62.5°	1505.9	1680.2	1229.9	1375.2	1423.6
65°	1246.8	1418.7	1108.8	1232.3	1271.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1016.8	1200.8	1009.6	1113.7	1150.0
70°	801.4	995.1	922.4	1016.8	1055.6
72.5°	627.1	823.2	849.8	937.0	975.7
75°	479.4	670.6	782.0	876.4	917.6
77.5°	355.9	547.2	719.1	828.0	871.6
80°	234.8	435.8	663.4	784.4	835.3
82.5°	147.7	351.1	607.7	740.8	794.1
85°	72.6	285.7	554.4	702.1	750.5
87.5°	24.2	237.3	506.0	663.4	704.5
90°	2.4	198.5	462.4	622.2	663.4
92.5°	2.4	171.9	426.1	573.8	614.9
95°	2.4	152.5	389.8	527.8	564.1
97.5°	2.4	138.0	355.9	479.4	518.1
100°	2.4	123.5	319.6	433.4	474.5
102.5°	4.8	113.8	288.1	394.6	438.2
105°	4.8	106.5	256.6	360.7	404.3
107.5°	4.8	101.7	230.0	334.1	375.3
110°	4.8	96.8	210.6	309.9	353.5
112.5°	4.8	94.4	198.5	288.1	329.3
115°	4.8	92.0	188.8	268.7	302.6
117.5°	7.3	89.6	181.6	249.4	276.0
120°	7.3	84.7	176.7	232.4	254.2
122.5°	7.3	79.9	169.5	217.9	234.8
125°	7.3	77.5	162.2	203.4	217.9
127.5°	7.3	72.6	154.9	191.3	205.8
130°	9.7	67.8	147.7	181.6	193.7
132.5°	9.7	62.9	140.4	176.7	186.4
135°	9.7	60.5	133.2	169.5	179.2
137.5°	9.7	55.7	125.9	162.2	171.9
140°	9.7	50.8	116.2	152.5	162.2
142.5°	9.7	48.4	106.5	142.8	152.5
145°	9.7	43.6	94.4	130.7	142.8
147.5°	12.1	41.2	84.7	121.1	130.7
150°	12.1	36.3	75.1	111.4	121.1
152.5°	12.1	31.5	65.4	99.3	108.9
155°	12.1	26.6	58.1	87.2	99.3
157.5°	12.1	24.2	50.8	72.6	87.2
160°	12.1	21.8	43.6	62.9	75.1
162.5°	12.1	19.4	38.7	53.3	65.4
165°	12.1	16.9	31.5	43.6	53.3
167.5°	14.5	16.9	26.6	33.9	43.6
170°	14.5	16.9	21.8	26.6	33.9
172.5°	14.5	14.5	16.9	19.4	21.8
175°	14.5	14.5	14.5	14.5	12.1
177.5°	14.5	14.5	14.5	12.1	12.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	12.1	12.1	12.1	12.1	12.1

(END OF REPORT)