

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: P567553

Luminaire Tested: **8SNX-174HL-LC-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567553
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-L950-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

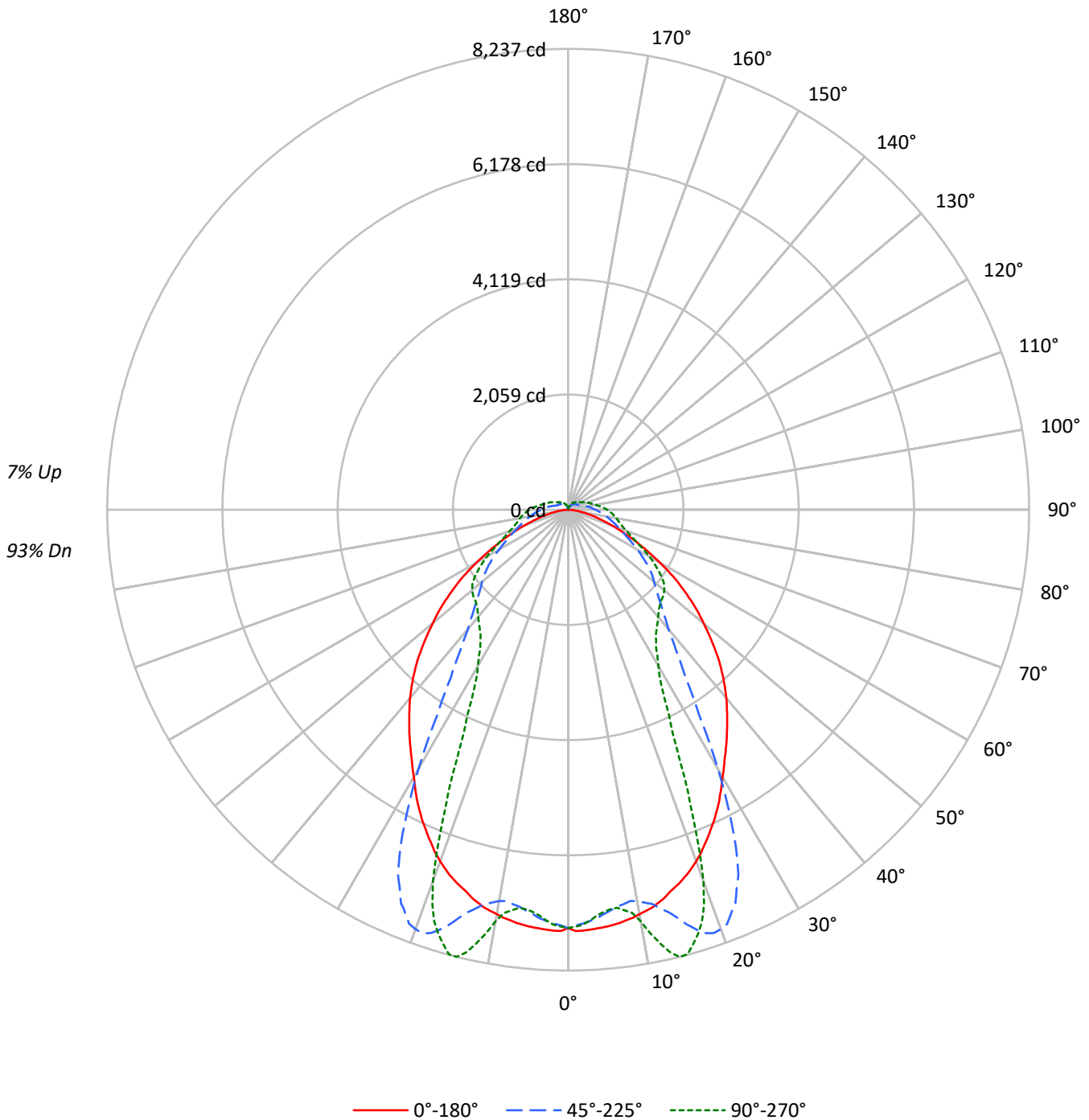
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16625.0 lumens
Efficiency: N/A
Efficacy: 133.6 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	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°	40259	40259	40259
5°	40380	37620	36851
10°	39971	35762	36543
15°	39114	37239	38902
20°	38004	38823	32558
25°	36172	34836	20019
30°	33871	25952	14488
35°	32004	17916	12222
40°	30339	13908	11264
45°	28388	11843	10653
50°	25819	10631	10457
55°	23106	9615	9675
60°	19594	8321	8369
65°	15935	7249	6985
70°	12505	6515	6150
75°	9697	6058	5735
80°	6824	5737	5677
85°	3795	5475	5637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.1	4.2
10°-20°	2127.0	12.8
20°-30°	2864.0	17.2
30°-40°	2710.4	16.3
40°-50°	2392.4	14.4
50°-60°	1943.1	11.7
60°-70°	1321.5	7.9
70°-80°	850.3	5.1
80°-90°	565.4	3.4
90°-100°	388.6	2.3
100°-110°	260.8	1.6
110°-120°	184.0	1.1
120°-130°	131.4	0.8
130°-140°	92.7	0.6
140°-150°	57.6	0.3
150°-160°	28.1	0.2
160°-170°	9.8	0.1
170°-180°	1.7	0.0
0°-30°	5687.0	34.2
0°-40°	8397.4	50.5
0°-60°	12732.9	76.6
0°-90°	15470.2	93.1
90°-120°	833.4	5.0
90°-150°	1115.2	6.7
90°-180°	1155.0	6.9
0°-180°	16625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7480	7480	7480	7480	7480	
5°	7488	7420	7260	7254	7219	710
15°	7059	7013	7554	8222	8229	1990
25°	6150	7293	7196	5226	4419	2822
35°	4942	6935	3655	2815	2729	3093
45°	3808	4665	2312	2284	2333	2923
55°	2536	2759	1736	1939	2013	2265
65°	1307	1488	1163	1292	1333	1312
75°	503	703	820	919	962	547
85°	76	300	581	736	787	100
90°	2	208	485	652	696	5
95°	2	160	409	553	591	2
105°	5	112	269	378	424	5
115°	5	96	198	282	317	6
125°	8	81	170	213	228	7
135°	10	64	140	178	188	8
145°	10	46	99	137	150	7
155°	13	28	61	91	104	6
165°	13	18	33	46	56	4
175°	15	15	15	15	13	1
180°	13	13	13	13	13	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7480.4	7480.4	7480.4	7480.4	7480.4
1°	7531.2	7508.4	7432.2	7472.8	7452.5
2°	7528.7	7490.6	7404.3	7450.0	7424.6
3°	7516.0	7475.4	7363.7	7391.6	7353.5
4°	7503.3	7455.0	7320.5	7320.5	7277.4
5°	7488.0	7419.5	7259.6	7254.5	7219.0
6°	7470.3	7391.6	7206.3	7201.2	7180.9
7°	7444.9	7343.4	7147.9	7183.4	7168.2
8°	7414.4	7297.7	7117.5	7206.3	7229.1
9°	7386.5	7241.8	7081.9	7277.4	7295.1
10°	7340.8	7191.1	7104.8	7419.5	7472.8
11°	7302.7	7147.9	7155.5	7559.1	7719.0
12°	7264.7	7102.2	7203.8	7734.3	7929.7
13°	7201.2	7066.7	7310.4	7924.6	8125.2
14°	7145.4	7038.8	7414.4	8117.5	8236.9
15°	7059.1	7013.4	7554.0	8221.6	8229.2
16°	7000.7	6995.6	7716.5	8229.2	8087.1
17°	6934.7	6988.0	7848.5	8097.2	7929.7
18°	6861.1	7003.2	7957.6	7932.3	7739.3
19°	6777.3	7018.5	8003.3	7703.8	7455.0
20°	6685.9	7041.3	7977.9	7465.2	7064.1
21°	6594.6	7071.8	7929.7	7213.9	6551.4
22.5°	6424.5	7145.4	7701.3	6508.3	5703.6
23°	6376.3	7160.6	7648.0	6287.4	5482.8
24°	6257.0	7224.1	7404.3	5772.1	4899.0
25°	6150.4	7292.6	7196.1	5226.4	4419.2
26°	6031.0	7343.4	6881.4	4723.8	4124.8
27°	5914.3	7373.8	6523.5	4332.9	3794.8
28°	5779.8	7406.8	6135.1	3995.3	3546.0
29°	5652.8	7411.9	5751.8	3726.3	3350.6
30°	5515.8	7386.5	5348.2	3510.5	3228.7
32.5°	5216.2	7246.9	4360.8	3099.3	2924.1
35°	4942.1	6934.7	3655.2	2815.0	2728.7
37.5°	4665.4	6442.3	3160.2	2637.3	2609.4
40°	4393.8	5858.4	2787.1	2495.2	2500.2
42.5°	4107.0	5256.9	2530.7	2378.4	2401.3
45°	3807.5	4665.4	2312.4	2284.5	2332.7
47.5°	3475.0	4124.8	2139.8	2223.6	2297.2
50°	3160.2	3589.2	2005.3	2165.2	2241.3
52.5°	2860.7	3150.1	1883.4	2066.2	2155.0
55°	2535.8	2759.2	1736.2	1939.3	2012.9
57.5°	2226.1	2406.3	1581.4	1781.9	1847.9
60°	1886.0	2058.6	1424.0	1611.8	1675.3
62.5°	1578.8	1761.6	1289.5	1441.8	1492.5
65°	1307.2	1487.5	1162.6	1292.0	1332.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1066.1	1259.0	1058.5	1167.6	1205.7
70°	840.2	1043.2	967.1	1066.1	1106.7
72.5°	657.4	863.0	891.0	982.3	1022.9
75°	502.6	703.1	819.9	918.9	962.0
77.5°	373.1	573.7	753.9	868.1	913.8
80°	246.2	456.9	695.5	822.4	875.7
82.5°	154.8	368.1	637.1	776.7	832.6
85°	76.1	299.5	581.3	736.1	786.9
87.5°	25.4	248.8	530.5	695.5	738.7
90°	2.5	208.1	484.8	652.3	695.5
92.5°	2.5	180.2	446.7	601.6	644.7
95°	2.5	159.9	408.7	553.4	591.4
97.5°	2.5	144.7	373.1	502.6	543.2
100°	2.5	129.5	335.1	454.4	497.5
102.5°	5.1	119.3	302.1	413.7	459.4
105°	5.1	111.7	269.1	378.2	423.9
107.5°	5.1	106.6	241.1	350.3	393.4
110°	5.1	101.5	220.8	324.9	370.6
112.5°	5.1	99.0	208.1	302.1	345.2
115°	5.1	96.5	198.0	281.8	317.3
117.5°	7.6	93.9	190.4	261.4	289.4
120°	7.6	88.8	185.3	243.7	266.5
122.5°	7.6	83.8	177.7	228.4	246.2
125°	7.6	81.2	170.1	213.2	228.4
127.5°	7.6	76.1	162.5	200.5	215.8
130°	10.2	71.1	154.8	190.4	203.1
132.5°	10.2	66.0	147.2	185.3	195.5
135°	10.2	63.5	139.6	177.7	187.8
137.5°	10.2	58.4	132.0	170.1	180.2
140°	10.2	53.3	121.8	159.9	170.1
142.5°	10.2	50.8	111.7	149.8	159.9
145°	10.2	45.7	99.0	137.1	149.8
147.5°	12.7	43.2	88.8	126.9	137.1
150°	12.7	38.1	78.7	116.8	126.9
152.5°	12.7	33.0	68.5	104.1	114.2
155°	12.7	27.9	60.9	91.4	104.1
157.5°	12.7	25.4	53.3	76.1	91.4
160°	12.7	22.8	45.7	66.0	78.7
162.5°	12.7	20.3	40.6	55.8	68.5
165°	12.7	17.8	33.0	45.7	55.8
167.5°	15.2	17.8	27.9	35.5	45.7
170°	15.2	17.8	22.8	27.9	35.5
172.5°	15.2	15.2	17.8	20.3	22.8
175°	15.2	15.2	15.2	15.2	12.7
177.5°	15.2	15.2	15.2	12.7	12.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	12.7	12.7	12.7	12.7	12.7

(END OF REPORT)