

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: P567501

Luminaire Tested: **8SNX-168HL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567501
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-168HL-LC-UNV-L850-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

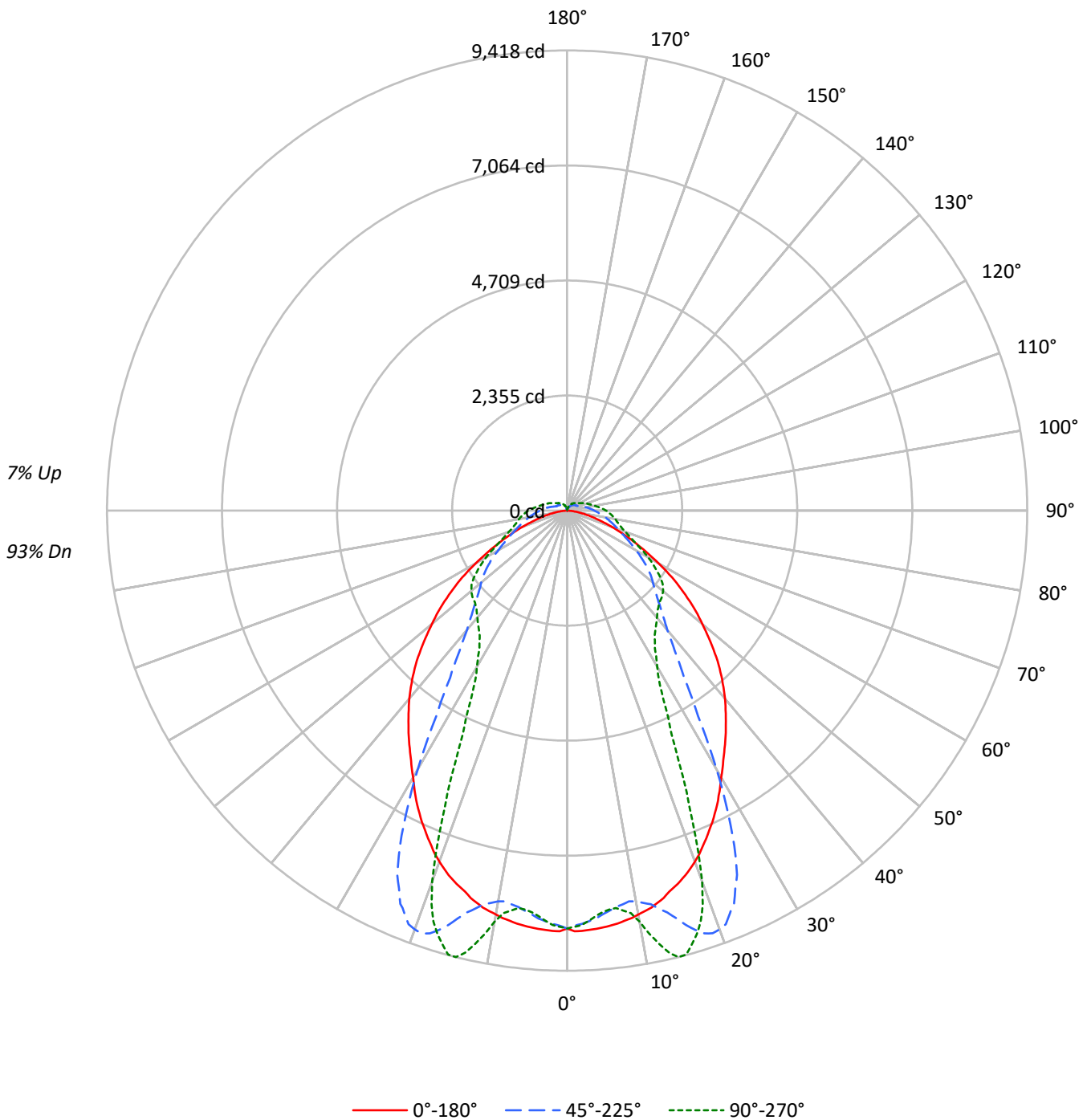
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19009.0 lumens
Efficiency: N/A
Efficacy: 164.2 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): 115.8
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°	46032	46032	46032
5°	46171	43015	42136
10°	45702	40890	41783
15°	44722	42579	44481
20°	43454	44390	37227
25°	41358	39832	22890
30°	38727	29674	16566
35°	36593	20485	13975
40°	34690	15902	12880
45°	32459	13541	12180
50°	29521	12155	11957
55°	26419	10994	11063
60°	22403	9514	9569
65°	18221	8288	7986
70°	14299	7450	7032
75°	11088	6926	6558
80°	7803	6560	6491
85°	4344	6259	6445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.9	4.2
10°-20°	2432.0	12.8
20°-30°	3274.7	17.2
30°-40°	3099.1	16.3
40°-50°	2735.4	14.4
50°-60°	2221.8	11.7
60°-70°	1511.1	7.9
70°-80°	972.3	5.1
80°-90°	646.5	3.4
90°-100°	444.3	2.3
100°-110°	298.2	1.6
110°-120°	210.4	1.1
120°-130°	150.3	0.8
130°-140°	106.0	0.6
140°-150°	65.8	0.3
150°-160°	32.1	0.2
160°-170°	11.2	0.1
170°-180°	1.9	0.0
0°-30°	6502.5	34.2
0°-40°	9601.6	50.5
0°-60°	14558.8	76.6
0°-90°	17688.6	93.1
90°-120°	952.9	5.0
90°-150°	1275.1	6.7
90°-180°	1320.0	6.9
0°-180°	19009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8553	8553	8553	8553	8553	
5°	8562	8484	8301	8295	8254	812
15°	8071	8019	8637	9401	9409	2275
25°	7032	8338	8228	5976	5053	3227
35°	5651	7929	4179	3219	3120	3536
45°	4354	5334	2644	2612	2667	3342
55°	2899	3155	1985	2217	2302	2589
65°	1495	1701	1329	1477	1524	1501
75°	575	804	937	1051	1100	625
85°	87	342	665	842	900	114
90°	3	238	554	746	795	5
95°	3	183	467	633	676	2
105°	6	128	308	432	485	6
115°	6	110	226	322	363	7
125°	9	93	194	244	261	8
135°	12	73	160	203	215	9
145°	12	52	113	157	171	8
155°	14	32	70	104	119	7
165°	14	20	38	52	64	4
175°	17	17	17	17	14	2
180°	14	14	14	14	14	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8553.1	8553.1	8553.1	8553.1	8553.1
1°	8611.2	8585.0	8498.0	8544.4	8521.2
2°	8608.3	8564.7	8466.0	8518.3	8489.3
3°	8593.7	8547.3	8419.6	8451.5	8408.0
4°	8579.2	8524.1	8370.3	8370.3	8320.9
5°	8561.8	8483.5	8300.6	8294.8	8254.2
6°	8541.5	8451.5	8239.7	8233.9	8210.6
7°	8512.5	8396.4	8172.9	8213.5	8196.1
8°	8477.7	8344.1	8138.1	8239.7	8265.8
9°	8445.7	8280.3	8097.5	8320.9	8341.2
10°	8393.5	8222.3	8123.6	8483.5	8544.4
11°	8350.0	8172.9	8181.6	8643.1	8825.9
12°	8306.4	8120.7	8236.8	8843.3	9066.8
13°	8233.9	8080.0	8358.7	9061.0	9290.3
14°	8170.0	8048.1	8477.7	9281.6	9418.0
15°	8071.3	8019.1	8637.3	9400.6	9409.3
16°	8004.6	7998.8	8823.0	9409.3	9246.8
17°	7929.1	7990.1	8973.9	9258.4	9066.8
18°	7844.9	8007.5	9098.7	9069.7	8849.1
19°	7749.2	8024.9	9151.0	8808.5	8524.1
20°	7644.7	8051.0	9122.0	8535.7	8077.1
21°	7540.2	8085.8	9066.8	8248.4	7490.9
22.5°	7345.8	8170.0	8805.6	7441.5	6521.5
23°	7290.6	8187.4	8744.7	7189.0	6269.0
24°	7154.2	8260.0	8466.0	6599.9	5601.5
25°	7032.3	8338.3	8228.1	5975.9	5052.9
26°	6895.9	8396.4	7868.2	5401.2	4716.3
27°	6762.4	8431.2	7458.9	4954.2	4339.0
28°	6608.6	8468.9	7014.9	4568.2	4054.5
29°	6463.4	8474.8	6576.6	4260.6	3831.1
30°	6306.7	8445.7	6115.2	4013.9	3691.7
32.5°	5964.3	8286.1	4986.2	3543.7	3343.5
35°	5650.8	7929.1	4179.3	3218.7	3120.0
37.5°	5334.4	7366.1	3613.4	3015.5	2983.6
40°	5023.9	6698.5	3186.7	2853.0	2858.8
42.5°	4695.9	6010.7	2893.6	2719.5	2745.6
45°	4353.5	5334.4	2644.0	2612.1	2667.2
47.5°	3973.3	4716.3	2446.6	2542.4	2626.6
50°	3613.4	4103.9	2292.8	2475.7	2562.7
52.5°	3270.9	3601.8	2153.5	2362.5	2464.1
55°	2899.4	3154.8	1985.2	2217.4	2301.5
57.5°	2545.3	2751.4	1808.1	2037.4	2112.9
60°	2156.4	2353.8	1628.2	1843.0	1915.5
62.5°	1805.2	2014.2	1474.4	1648.5	1706.6
65°	1494.7	1700.8	1329.3	1477.3	1523.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1219.0	1439.5	1210.3	1335.1	1378.6
70°	960.7	1192.9	1105.8	1219.0	1265.4
72.5°	751.7	986.8	1018.7	1123.2	1169.6
75°	574.7	803.9	937.4	1050.6	1100.0
77.5°	426.6	655.9	862.0	992.6	1044.8
80°	281.5	522.4	795.2	940.3	1001.3
82.5°	177.0	420.8	728.5	888.1	952.0
85°	87.1	342.5	664.6	841.7	899.7
87.5°	29.0	284.4	606.6	795.2	844.6
90°	2.9	238.0	554.3	745.9	795.2
92.5°	2.9	206.1	510.8	687.8	737.2
95°	2.9	182.8	467.3	632.7	676.2
97.5°	2.9	165.4	426.6	574.7	621.1
100°	2.9	148.0	383.1	519.5	568.9
102.5°	5.8	136.4	345.4	473.1	525.3
105°	5.8	127.7	307.6	432.4	484.7
107.5°	5.8	121.9	275.7	400.5	449.9
110°	5.8	116.1	252.5	371.5	423.7
112.5°	5.8	113.2	238.0	345.4	394.7
115°	5.8	110.3	226.4	322.2	362.8
117.5°	8.7	107.4	217.7	298.9	330.9
120°	8.7	101.6	211.9	278.6	304.7
122.5°	8.7	95.8	203.2	261.2	281.5
125°	8.7	92.9	194.5	243.8	261.2
127.5°	8.7	87.1	185.7	229.3	246.7
130°	11.6	81.3	177.0	217.7	232.2
132.5°	11.6	75.5	168.3	211.9	223.5
135°	11.6	72.6	159.6	203.2	214.8
137.5°	11.6	66.8	150.9	194.5	206.1
140°	11.6	60.9	139.3	182.8	194.5
142.5°	11.6	58.0	127.7	171.2	182.8
145°	11.6	52.2	113.2	156.7	171.2
147.5°	14.5	49.3	101.6	145.1	156.7
150°	14.5	43.5	90.0	133.5	145.1
152.5°	14.5	37.7	78.4	119.0	130.6
155°	14.5	31.9	69.7	104.5	119.0
157.5°	14.5	29.0	60.9	87.1	104.5
160°	14.5	26.1	52.2	75.5	90.0
162.5°	14.5	23.2	46.4	63.9	78.4
165°	14.5	20.3	37.7	52.2	63.9
167.5°	17.4	20.3	31.9	40.6	52.2
170°	17.4	20.3	26.1	31.9	40.6
172.5°	17.4	17.4	20.3	23.2	26.1
175°	17.4	17.4	17.4	17.4	14.5
177.5°	17.4	17.4	17.4	14.5	14.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	14.5	14.5	14.5	14.5	14.5

(END OF REPORT)