

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: P567500

Luminaire Tested: **8SNX-168HL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567500
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-L840-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

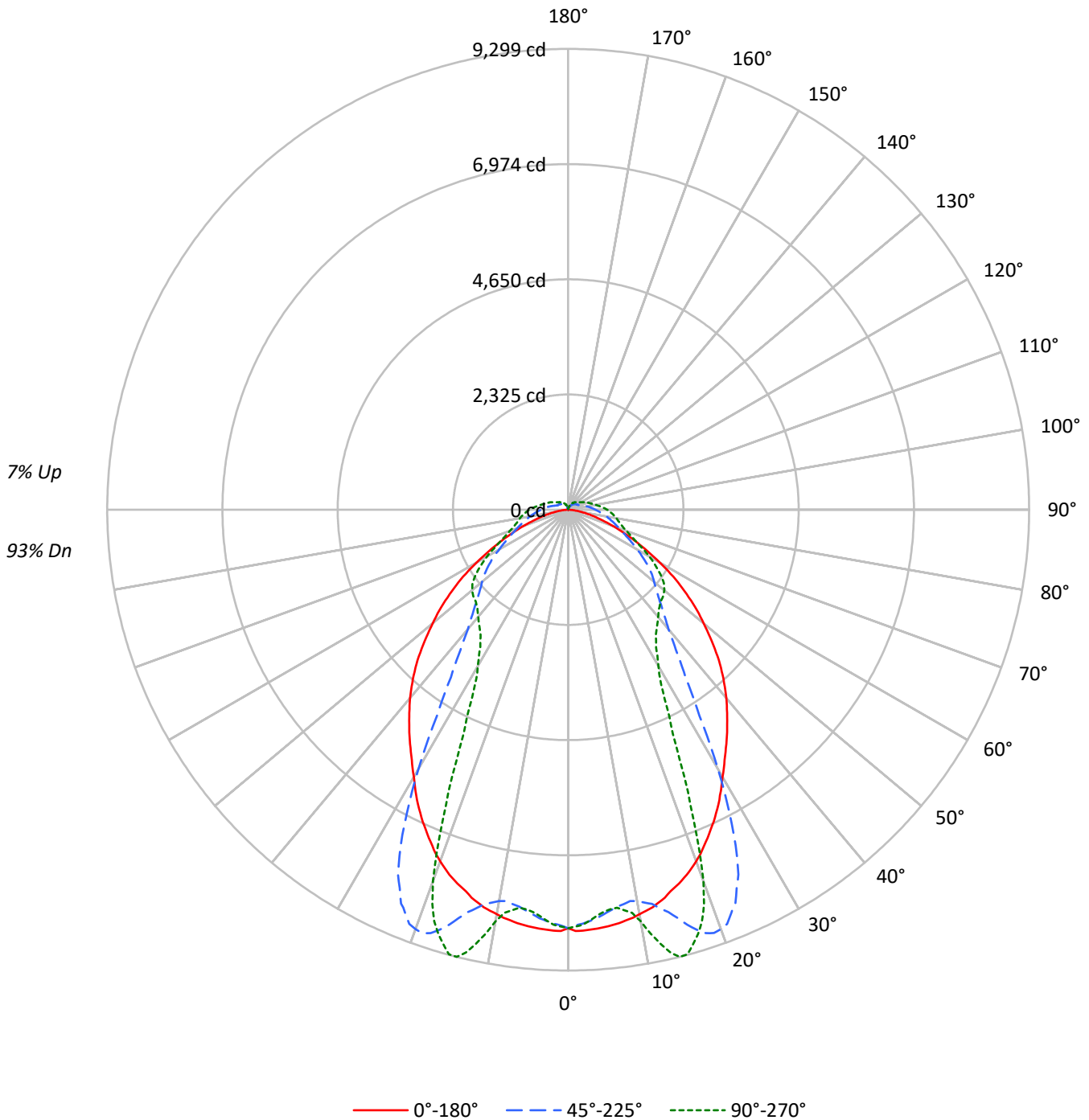
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18769.0 lumens
Efficiency: N/A
Efficacy: 162.1 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°	45451	45451	45451
5°	45588	42472	41604
10°	45125	40374	41256
15°	44157	42041	43919
20°	42906	43830	36758
25°	40836	39329	22601
30°	38239	29300	16357
35°	36131	20227	13799
40°	34252	15701	12717
45°	32049	13370	12026
50°	29149	12002	11806
55°	26086	10855	10923
60°	22120	9394	9448
65°	17990	8183	7886
70°	14117	7356	6943
75°	10947	6839	6475
80°	7706	6477	6409
85°	4289	6180	6364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.8	4.2
10°-20°	2401.2	12.8
20°-30°	3233.3	17.2
30°-40°	3060.0	16.3
40°-50°	2700.9	14.4
50°-60°	2193.7	11.7
60°-70°	1492.0	7.9
70°-80°	960.0	5.1
80°-90°	638.3	3.4
90°-100°	438.7	2.3
100°-110°	294.5	1.6
110°-120°	207.7	1.1
120°-130°	148.4	0.8
130°-140°	104.7	0.6
140°-150°	65.0	0.3
150°-160°	31.7	0.2
160°-170°	11.1	0.1
170°-180°	1.9	0.0
0°-30°	6420.4	34.2
0°-40°	9480.4	50.5
0°-60°	14375.0	76.6
0°-90°	17465.3	93.1
90°-120°	940.9	5.0
90°-150°	1259.0	6.7
90°-180°	1304.0	6.9
0°-180°	18769.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8445	8445	8445	8445	8445	
5°	8454	8376	8196	8190	8150	802
15°	7969	7918	8528	9282	9290	2247
25°	6944	8233	8124	5900	4989	3186
35°	5580	7829	4127	3178	3081	3491
45°	4298	5267	2611	2579	2634	3300
55°	2863	3115	1960	2189	2272	2557
65°	1476	1679	1312	1459	1504	1482
75°	567	794	926	1037	1086	617
85°	86	338	656	831	888	113
90°	3	235	547	736	785	5
95°	3	180	461	625	668	2
105°	6	126	304	427	479	6
115°	6	109	224	318	358	7
125°	9	92	192	241	258	8
135°	12	72	158	201	212	9
145°	12	52	112	155	169	8
155°	14	32	69	103	118	7
165°	14	20	37	52	63	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°	8445.1	8445.1	8445.1	8445.1	8445.1
1°	8502.4	8476.6	8390.7	8436.5	8413.6
2°	8499.6	8456.6	8359.2	8410.7	8382.1
3°	8485.2	8439.4	8313.3	8344.8	8301.8
4°	8470.9	8416.5	8264.6	8264.6	8215.9
5°	8453.7	8376.3	8195.8	8190.1	8150.0
6°	8433.7	8344.8	8135.6	8129.9	8107.0
7°	8405.0	8290.4	8069.7	8109.8	8092.6
8°	8370.6	8238.8	8035.3	8135.6	8161.4
9°	8339.1	8175.8	7995.2	8215.9	8235.9
10°	8287.5	8118.4	8021.0	8376.3	8436.5
11°	8244.5	8069.7	8078.3	8534.0	8714.5
12°	8201.5	8018.1	8132.8	8731.7	8952.3
13°	8129.9	7978.0	8253.1	8946.6	9173.0
14°	8066.9	7946.5	8370.6	9164.4	9299.1
15°	7969.4	7917.8	8528.2	9281.9	9290.5
16°	7903.5	7897.8	8711.6	9290.5	9130.0
17°	7829.0	7889.2	8860.6	9141.5	8952.3
18°	7745.9	7906.4	8983.9	8955.2	8737.4
19°	7651.3	7923.6	9035.5	8697.3	8416.5
20°	7548.2	7949.4	9006.8	8427.9	7975.2
21°	7445.0	7983.8	8952.3	8144.2	7396.3
22.5°	7253.0	8066.9	8694.4	7347.6	6439.2
23°	7198.6	8084.1	8634.3	7098.3	6189.8
24°	7063.9	8155.7	8359.2	6516.5	5530.7
25°	6943.5	8233.1	8124.2	5900.4	4989.1
26°	6808.8	8290.4	7768.8	5333.0	4656.7
27°	6677.0	8324.8	7364.8	4891.7	4284.2
28°	6525.1	8362.0	6926.3	4510.6	4003.3
29°	6381.8	8367.8	6493.6	4206.8	3782.7
30°	6227.1	8339.1	6038.0	3963.2	3645.1
32.5°	5888.9	8181.5	4923.2	3499.0	3301.3
35°	5579.5	7829.0	4126.6	3178.0	3080.6
37.5°	5267.1	7273.1	3567.8	2977.4	2945.9
40°	4960.5	6614.0	3146.5	2817.0	2822.7
42.5°	4636.7	5934.8	2857.1	2685.1	2710.9
45°	4298.5	5267.1	2610.6	2579.1	2633.5
47.5°	3923.1	4656.7	2415.8	2510.3	2593.4
50°	3567.8	4052.1	2263.9	2444.4	2530.4
52.5°	3229.6	3556.3	2126.3	2332.7	2433.0
55°	2862.8	3115.0	1960.1	2189.4	2272.5
57.5°	2513.2	2716.7	1785.3	2011.7	2086.2
60°	2129.2	2324.1	1607.6	1819.7	1891.3
62.5°	1782.4	1988.8	1455.8	1627.7	1685.0
65°	1475.8	1679.3	1312.5	1458.6	1504.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1203.6	1421.4	1195.0	1318.2	1361.2
70°	948.5	1177.8	1091.8	1203.6	1249.4
72.5°	742.2	974.3	1005.8	1109.0	1154.9
75°	567.4	793.8	925.6	1037.4	1086.1
77.5°	421.3	647.6	851.1	980.1	1031.6
80°	278.0	515.8	785.2	928.5	988.7
82.5°	174.8	415.5	719.3	876.9	939.9
85°	86.0	338.1	656.2	831.0	888.4
87.5°	28.7	280.8	598.9	785.2	833.9
90°	2.9	235.0	547.3	736.5	785.2
92.5°	2.9	203.5	504.4	679.2	727.9
95°	2.9	180.5	461.4	624.7	667.7
97.5°	2.9	163.3	421.3	567.4	613.3
100°	2.9	146.1	378.3	513.0	561.7
102.5°	5.7	134.7	341.0	467.1	518.7
105°	5.7	126.1	303.8	427.0	478.6
107.5°	5.7	120.4	272.2	395.5	444.2
110°	5.7	114.6	249.3	366.8	418.4
112.5°	5.7	111.8	235.0	341.0	389.7
115°	5.7	108.9	223.5	318.1	358.2
117.5°	8.6	106.0	214.9	295.2	326.7
120°	8.6	100.3	209.2	275.1	300.9
122.5°	8.6	94.6	200.6	257.9	278.0
125°	8.6	91.7	192.0	240.7	257.9
127.5°	8.6	86.0	183.4	226.4	243.6
130°	11.5	80.2	174.8	214.9	229.3
132.5°	11.5	74.5	166.2	209.2	220.7
135°	11.5	71.6	157.6	200.6	212.1
137.5°	11.5	65.9	149.0	192.0	203.5
140°	11.5	60.2	137.6	180.5	192.0
142.5°	11.5	57.3	126.1	169.1	180.5
145°	11.5	51.6	111.8	154.7	169.1
147.5°	14.3	48.7	100.3	143.3	154.7
150°	14.3	43.0	88.8	131.8	143.3
152.5°	14.3	37.3	77.4	117.5	129.0
155°	14.3	31.5	68.8	103.2	117.5
157.5°	14.3	28.7	60.2	86.0	103.2
160°	14.3	25.8	51.6	74.5	88.8
162.5°	14.3	22.9	45.9	63.0	77.4
165°	14.3	20.1	37.3	51.6	63.0
167.5°	17.2	20.1	31.5	40.1	51.6
170°	17.2	20.1	25.8	31.5	40.1
172.5°	17.2	17.2	20.1	22.9	25.8
175°	17.2	17.2	17.2	17.2	14.3
177.5°	17.2	17.2	17.2	14.3	14.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	14.3	14.3	14.3	14.3	14.3

(END OF REPORT)