

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: P567644

Luminaire Tested: **8SNX-186HL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567644  
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-186HL-LC-UNV-L840-CD  
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

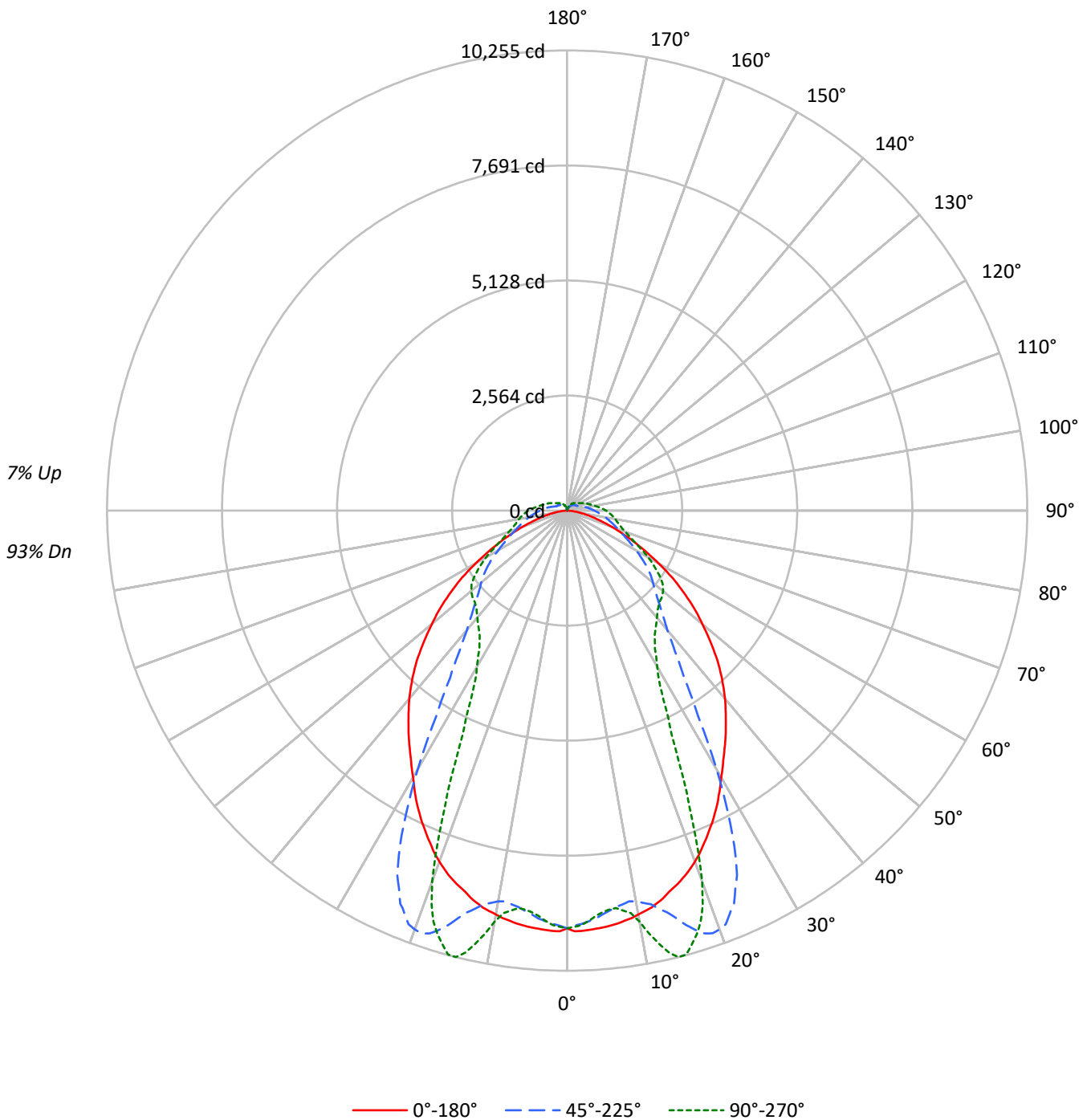
Lumens per Lamp: N/A  
Luminaire Lumens: 20698.0 lumens  
Efficiency: N/A  
Efficacy: 153.5 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 134.8  
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°	50123	50123	50123
5°	50274	46836	45880
10°	49763	44523	45496
15°	48696	46362	48433
20°	47315	48335	40535
25°	45033	43370	24924
30°	42169	32311	18038
35°	39844	22306	15217
40°	37772	17315	14024
45°	35343	14744	13263
50°	32144	13235	13019
55°	28767	11971	12045
60°	24393	10360	10419
65°	19839	9024	8696
70°	15568	8112	7656
75°	12072	7542	7140
80°	8496	7143	7068
85°	4728	6816	7018



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	866.6	4.2
10°-20°	2648.0	12.8
20°-30°	3565.6	17.2
30°-40°	3374.5	16.3
40°-50°	2978.5	14.4
50°-60°	2419.2	11.7
60°-70°	1645.3	7.9
70°-80°	1058.7	5.1
80°-90°	704.0	3.4
90°-100°	483.8	2.3
100°-110°	324.7	1.6
110°-120°	229.0	1.1
120°-130°	163.6	0.8
130°-140°	115.5	0.6
140°-150°	71.7	0.3
150°-160°	35.0	0.2
160°-170°	12.2	0.1
170°-180°	2.1	0.0
0°-30°	7080.2	34.2
0°-40°	10454.7	50.5
0°-60°	15852.4	76.6
0°-90°	19260.3	93.1
90°-120°	1037.6	5.0
90°-150°	1388.4	6.7
90°-180°	1438.0	6.9
0°-180°	20698.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9313	9313	9313	9313	9313	
5°	9323	9237	9038	9032	8988	884
15°	8788	8732	9405	10236	10245	2478
25°	7657	9079	8959	6507	5502	3514
35°	6153	8634	4551	3505	3397	3850
45°	4740	5808	2879	2844	2904	3639
55°	3157	3435	2162	2414	2506	2819
65°	1628	1852	1447	1608	1659	1634
75°	626	875	1021	1144	1198	681
85°	95	373	724	916	980	124
90°	3	259	604	812	866	6
95°	3	199	509	689	736	3
105°	6	139	335	471	528	6
115°	6	120	246	351	395	7
125°	10	101	212	266	284	9
135°	13	79	174	221	234	10
145°	13	57	123	171	186	9
155°	16	35	76	114	130	7
165°	16	22	41	57	70	5
175°	19	19	19	19	16	2
180°	16	16	16	16	16	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9313.1	9313.1	9313.1	9313.1	9313.1
1°	9376.3	9347.8	9253.0	9303.6	9278.3
2°	9373.1	9325.7	9218.3	9275.2	9243.6
3°	9357.3	9306.8	9167.7	9202.5	9155.1
4°	9341.5	9281.5	9114.0	9114.0	9060.3
5°	9322.6	9237.2	9038.1	9031.8	8987.6
6°	9300.4	9202.5	8971.8	8965.5	8940.2
7°	9268.8	9142.4	8899.1	8943.3	8924.4
8°	9230.9	9085.5	8861.2	8971.8	9000.2
9°	9196.2	9016.0	8816.9	9060.3	9082.4
10°	9139.3	8952.8	8845.4	9237.2	9303.6
11°	9091.9	8899.1	8908.6	9411.0	9610.1
12°	9044.5	8842.2	8968.6	9629.1	9872.4
13°	8965.5	8798.0	9101.3	9866.1	10115.8
14°	8895.9	8763.2	9230.9	10106.3	10254.8
15°	8788.5	8731.6	9404.7	10235.9	10245.3
16°	8715.8	8709.5	9607.0	10245.3	10068.4
17°	8633.6	8700.0	9771.3	10081.0	9872.4
18°	8542.0	8719.0	9907.2	9875.6	9635.4
19°	8437.7	8737.9	9964.1	9591.2	9281.5
20°	8323.9	8766.4	9932.5	9294.1	8794.8
21°	8210.2	8804.3	9872.4	8981.3	8156.5
22.5°	7998.4	8895.9	9588.0	8102.7	7100.9
23°	7938.4	8914.9	9521.7	7827.8	6826.0
24°	7789.9	8993.9	9218.3	7186.3	6099.2
25°	7657.1	9079.2	8959.1	6506.8	5501.9
26°	7508.6	9142.4	8567.3	5881.1	5135.3
27°	7363.2	9180.4	8121.7	5394.4	4724.5
28°	7195.8	9221.4	7638.2	4974.1	4414.8
29°	7037.7	9227.8	7161.0	4639.2	4171.5
30°	6867.1	9196.2	6658.5	4370.5	4019.8
32.5°	6494.2	9022.3	5429.2	3858.6	3640.5
35°	6152.9	8633.6	4550.7	3504.7	3397.2
37.5°	5808.4	8020.6	3934.4	3283.4	3248.7
40°	5470.3	7293.7	3469.9	3106.5	3112.8
42.5°	5113.2	6544.8	3150.7	2961.1	2989.5
45°	4740.3	5808.4	2878.9	2844.2	2904.2
47.5°	4326.3	5135.3	2664.0	2768.3	2860.0
50°	3934.4	4468.5	2496.6	2695.6	2790.4
52.5°	3561.5	3921.8	2344.9	2572.4	2683.0
55°	3157.0	3435.1	2161.6	2414.4	2506.0
57.5°	2771.5	2995.9	1968.8	2218.5	2300.6
60°	2348.0	2562.9	1772.9	2006.7	2085.7
62.5°	1965.6	2193.2	1605.4	1795.0	1858.2
65°	1627.5	1851.9	1447.4	1608.5	1659.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1327.3	1567.5	1317.8	1453.7	1501.1
70°	1046.0	1298.8	1204.0	1327.3	1377.8
72.5°	818.5	1074.5	1109.2	1223.0	1273.6
75°	625.7	875.4	1020.7	1144.0	1197.7
77.5°	464.5	714.2	938.6	1080.8	1137.7
80°	306.5	568.8	865.9	1023.9	1090.3
82.5°	192.8	458.2	793.2	967.0	1036.5
85°	94.8	372.9	723.7	916.5	979.7
87.5°	31.6	309.7	660.5	865.9	919.6
90°	3.2	259.1	603.6	812.2	865.9
92.5°	3.2	224.4	556.2	749.0	802.7
95°	3.2	199.1	508.8	688.9	736.3
97.5°	3.2	180.1	464.5	625.7	676.3
100°	3.2	161.2	417.1	565.7	619.4
102.5°	6.3	148.5	376.1	515.1	572.0
105°	6.3	139.0	335.0	470.9	527.8
107.5°	6.3	132.7	300.2	436.1	489.8
110°	6.3	126.4	274.9	404.5	461.4
112.5°	6.3	123.2	259.1	376.1	429.8
115°	6.3	120.1	246.5	350.8	395.0
117.5°	9.5	116.9	237.0	325.5	360.3
120°	9.5	110.6	230.7	303.4	331.8
122.5°	9.5	104.3	221.2	284.4	306.5
125°	9.5	101.1	211.7	265.5	284.4
127.5°	9.5	94.8	202.3	249.7	268.6
130°	12.6	88.5	192.8	237.0	252.8
132.5°	12.6	82.2	183.3	230.7	243.3
135°	12.6	79.0	173.8	221.2	233.9
137.5°	12.6	72.7	164.3	211.7	224.4
140°	12.6	66.4	151.7	199.1	211.7
142.5°	12.6	63.2	139.0	186.5	199.1
145°	12.6	56.9	123.2	170.7	186.5
147.5°	15.8	53.7	110.6	158.0	170.7
150°	15.8	47.4	98.0	145.4	158.0
152.5°	15.8	41.1	85.3	129.6	142.2
155°	15.8	34.8	75.8	113.8	129.6
157.5°	15.8	31.6	66.4	94.8	113.8
160°	15.8	28.4	56.9	82.2	98.0
162.5°	15.8	25.3	50.6	69.5	85.3
165°	15.8	22.1	41.1	56.9	69.5
167.5°	19.0	22.1	34.8	44.2	56.9
170°	19.0	22.1	28.4	34.8	44.2
172.5°	19.0	19.0	22.1	25.3	28.4
175°	19.0	19.0	19.0	19.0	15.8
177.5°	19.0	19.0	19.0	15.8	15.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	15.8	15.8	15.8	15.8	15.8

(END OF REPORT)