

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: P567659

Luminaire Tested: **8SNX-186HL-LW-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567659  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-186HL-LW-UNV-L835-CD  
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

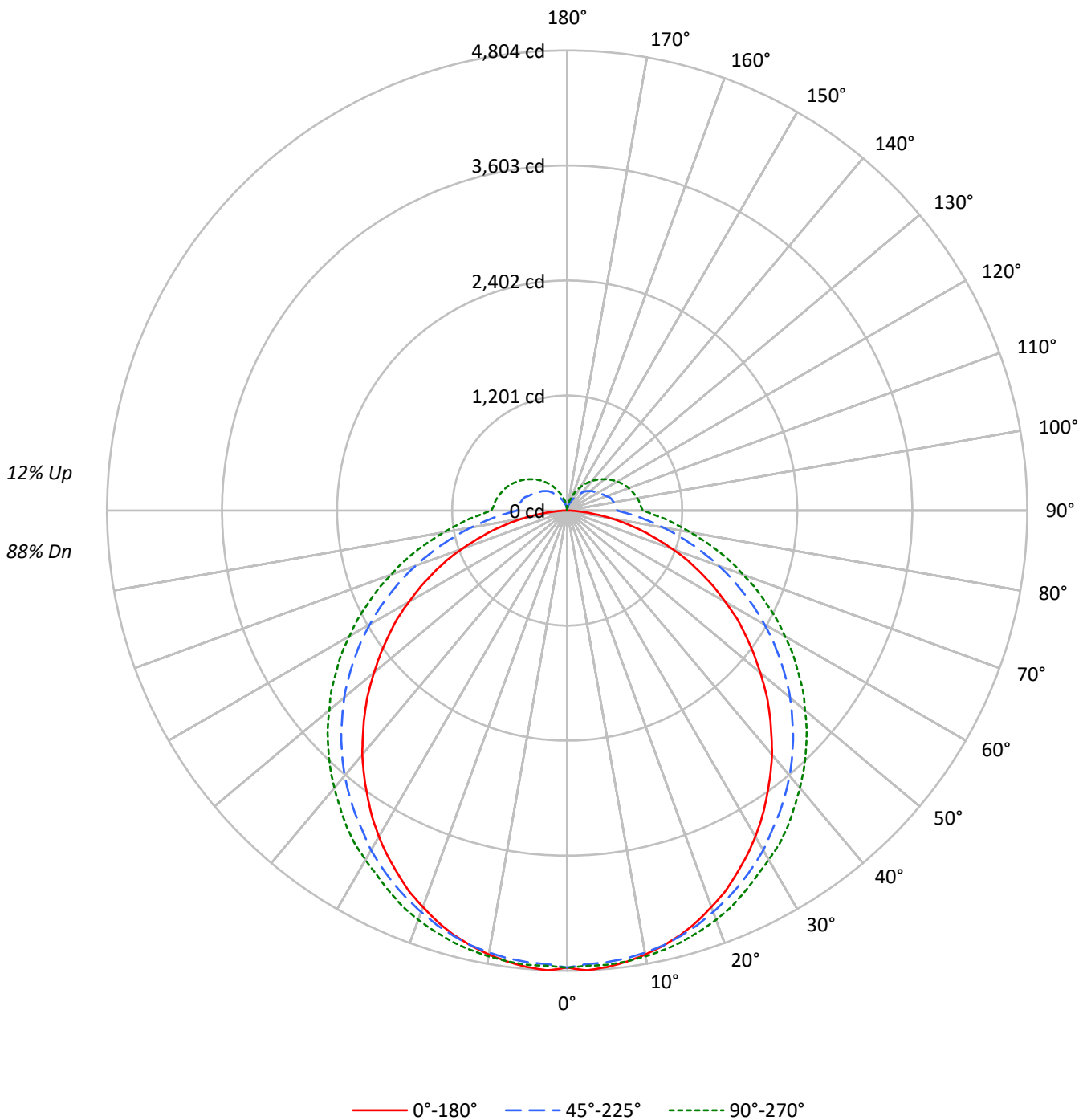
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17179.0 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-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

TEST NUMBER: P567659

CATALOG NUMBER: 8SNX-186HL-LW-UNV-L835-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P567659

CATALOG NUMBER: 8SNX-186HL-LW-UNV-L835-CD

**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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	25681	25681	25681
5°	25795	24529	24298
10°	25629	23589	23104
15°	25396	22653	22015
20°	25033	21703	20962
25°	24603	20778	19883
30°	24135	19871	18891
35°	23546	18919	18000
40°	22974	18027	17031
45°	22285	17085	16108
50°	21487	16110	15126
55°	20721	15038	14155
60°	19836	13907	13109
65°	18756	12674	12027
70°	17383	11337	10855
75°	15439	9868	9733
80°	12720	8397	8448
85°	8803	6982	7376



TEST NUMBER: P567659

CATALOG NUMBER: 8SNX-186HL-LW-UNV-L835-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.0	2.6
10°-20°	1303.1	7.6
20°-30°	1982.3	11.5
30°-40°	2410.3	14.0
40°-50°	2550.1	14.8
50°-60°	2390.3	13.9
60°-70°	1966.5	11.4
70°-80°	1360.6	7.9
80°-90°	756.6	4.4
90°-100°	498.4	2.9
100°-110°	447.0	2.6
110°-120°	370.0	2.2
120°-130°	286.0	1.7
130°-140°	202.5	1.2
140°-150°	122.1	0.7
150°-160°	58.7	0.3
160°-170°	19.2	0.1
170°-180°	2.3	0.0
0°-30°	3738.4	21.8
0°-40°	6148.7	35.8
0°-60°	11089.2	64.6
0°-90°	15172.8	88.3
90°-120°	1315.3	7.7
90°-150°	1925.9	11.2
90°-180°	2006.0	11.7
0°-180°	17179.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4772	4772	4772	4772	4772	
5°	4783	4775	4733	4772	4760	454
15°	4583	4598	4595	4657	4657	1292
25°	4183	4242	4292	4386	4389	1928
35°	3636	3733	3860	3983	4019	2276
45°	2989	3145	3336	3486	3527	2304
55°	2274	2477	2715	2886	2945	2036
65°	1539	1759	2033	2233	2295	1526
75°	800	1033	1336	1547	1633	849
85°	176	438	741	947	1030	203
90°	3	247	524	721	791	12
95°	3	235	509	697	765	2
105°	3	203	477	656	715	3
115°	6	176	403	582	647	5
125°	6	150	344	497	559	5
135°	6	118	288	409	459	5
145°	6	85	200	309	347	4
155°	9	59	124	197	230	4
165°	9	38	68	91	118	2
175°	9	15	21	21	12	1
180°	6	6	6	6	6	



TEST NUMBER: P567659

CATALOG NUMBER: 8SNX-186HL-LW-UNV-L835-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4771.7	4771.7	4771.7	4771.7	4771.7
2.5°	4804.0	4789.3	4739.3	4771.7	4757.0
5°	4783.4	4774.6	4733.4	4771.7	4759.9
7.5°	4751.1	4748.1	4715.8	4759.9	4748.1
10°	4706.9	4712.8	4686.3	4733.4	4724.6
12.5°	4651.0	4659.9	4648.1	4701.1	4695.2
15°	4583.4	4598.1	4595.2	4656.9	4656.9
17.5°	4501.0	4521.6	4533.4	4604.0	4604.0
20°	4403.9	4436.3	4459.8	4536.3	4548.1
22.5°	4306.9	4345.1	4380.4	4459.8	4477.5
25°	4183.3	4242.1	4292.1	4386.3	4389.2
27.5°	4062.7	4127.4	4195.1	4286.3	4295.1
30°	3930.3	4012.7	4095.0	4183.3	4209.8
32.5°	3789.1	3880.3	3971.5	4089.2	4124.5
35°	3636.1	3733.2	3859.7	3983.2	4018.6
37.5°	3483.1	3592.0	3739.1	3865.6	3897.9
40°	3327.2	3447.8	3612.6	3742.0	3780.3
42.5°	3153.7	3300.7	3477.3	3615.5	3659.6
45°	2988.9	3144.8	3336.0	3486.1	3527.3
47.5°	2815.3	2980.1	3186.0	3344.9	3391.9
50°	2630.0	2818.3	3038.9	3197.8	3241.9
52.5°	2456.4	2647.7	2880.1	3044.8	3106.6
55°	2274.0	2477.0	2715.3	2885.9	2944.8
57.5°	2103.4	2297.6	2553.5	2724.1	2797.7
60°	1909.3	2124.0	2379.9	2565.3	2624.1
62.5°	1726.9	1944.6	2209.3	2400.5	2468.2
65°	1538.6	1759.2	2032.8	2232.9	2294.6
67.5°	1362.1	1579.8	1859.2	2056.3	2135.8
70°	1167.9	1397.4	1682.7	1885.7	1953.4
72.5°	976.7	1215.0	1506.2	1723.9	1800.4
75°	800.2	1032.6	1335.6	1547.4	1632.7
77.5°	629.6	864.9	1170.9	1388.5	1462.1
80°	458.9	706.0	1017.9	1232.6	1303.2
82.5°	303.0	561.9	870.8	1085.5	1162.0
85°	176.5	438.3	741.3	947.3	1029.6
87.5°	76.5	332.4	620.7	823.7	891.4
90°	2.9	247.1	523.6	720.8	791.4
92.5°	2.9	241.2	511.9	706.0	773.7
95°	2.9	235.3	508.9	697.2	764.9
97.5°	2.9	232.4	503.1	691.3	756.1
100°	2.9	223.6	494.2	679.6	744.3
102.5°	2.9	211.8	485.4	667.8	729.6
105°	2.9	203.0	476.6	656.0	714.9
107.5°	2.9	194.2	461.9	641.3	700.2
110°	2.9	185.3	438.3	626.6	685.4



TEST NUMBER: P567659

CATALOG NUMBER: 8SNX-186HL-LW-UNV-L835-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	182.4	420.7	606.0	667.8
115°	5.9	176.5	403.0	582.5	647.2
117.5°	5.9	173.6	388.3	558.9	626.6
120°	5.9	164.7	373.6	538.4	603.1
122.5°	5.9	155.9	358.9	517.8	582.5
125°	5.9	150.0	344.2	497.2	558.9
127.5°	5.9	141.2	332.4	476.6	532.5
130°	5.9	135.3	317.7	453.0	508.9
132.5°	5.9	126.5	303.0	429.5	482.5
135°	5.9	117.7	288.3	408.9	458.9
137.5°	5.9	105.9	270.6	385.4	432.5
140°	5.9	97.1	247.1	361.8	406.0
142.5°	5.9	91.2	223.6	335.4	376.6
145°	5.9	85.3	200.0	308.9	347.1
147.5°	5.9	79.4	179.5	282.4	317.7
150°	5.9	70.6	158.9	258.9	288.3
152.5°	8.8	64.7	141.2	229.5	258.9
155°	8.8	58.8	123.6	197.1	229.5
157.5°	8.8	53.0	105.9	164.7	200.0
160°	8.8	47.1	91.2	135.3	170.6
162.5°	8.8	44.1	79.4	111.8	144.2
165°	8.8	38.2	67.7	91.2	117.7
167.5°	8.8	29.4	55.9	70.6	97.1
170°	8.8	23.5	44.1	50.0	73.5
172.5°	8.8	17.7	32.4	35.3	38.2
175°	8.8	14.7	20.6	20.6	11.8
177.5°	8.8	11.8	11.8	11.8	5.9
180°	5.9	5.9	5.9	5.9	5.9

(END OF REPORT)