

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: P567637

Luminaire Tested: **8SNX-186HL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

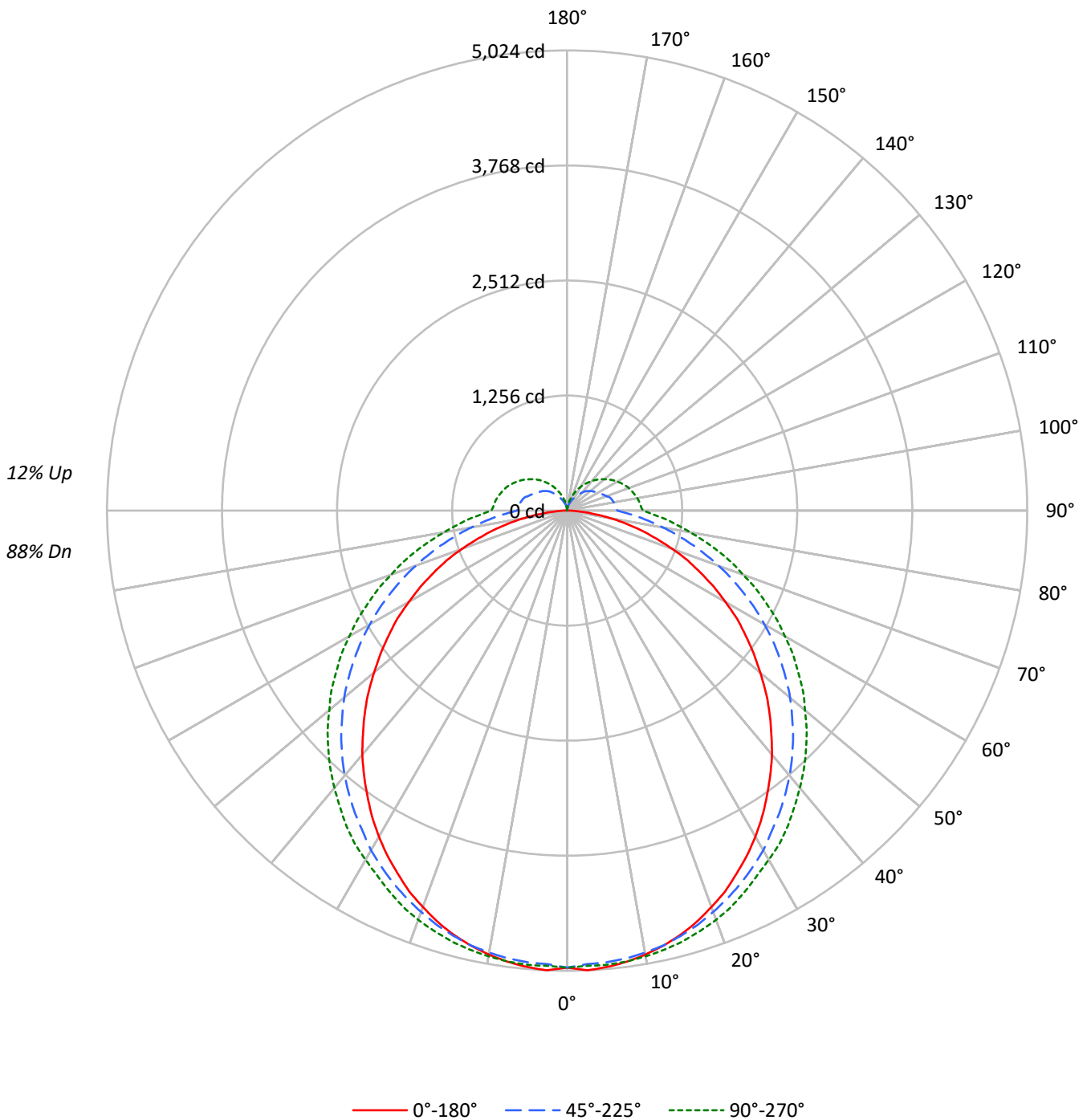
Test Method: LM-79-08  
Report Number: P567637  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-186HL-FDL-UNV-L850-CD  
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17965.0 lumens  
Efficiency: N/A  
Efficacy: 133.3 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: 0.04')  
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

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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	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°	26856	26856	26856
5°	27013	26461	26506
10°	26876	26221	26231
15°	26669	25930	25975
20°	26327	25580	25683
25°	25915	25225	25291
30°	25466	24868	24957
35°	24892	24439	24725
40°	24339	24086	24366
45°	23667	23676	24064
50°	22886	23242	23682
55°	22149	22704	23340
60°	21299	22131	22921
65°	20264	21475	22512
70°	18947	20759	22049
75°	17069	19981	21889
80°	14447	19529	21715
85°	10759	20039	22889



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	473.7	2.6
10°-20°	1362.7	7.6
20°-30°	2073.0	11.5
30°-40°	2520.6	14.0
40°-50°	2666.7	14.8
50°-60°	2499.7	13.9
60°-70°	2056.4	11.4
70°-80°	1422.9	7.9
80°-90°	791.2	4.4
90°-100°	521.2	2.9
100°-110°	467.4	2.6
110°-120°	386.9	2.2
120°-130°	299.1	1.7
130°-140°	211.7	1.2
140°-150°	127.7	0.7
150°-160°	61.3	0.3
160°-170°	20.1	0.1
170°-180°	2.4	0.0
0°-30°	3909.5	21.8
0°-40°	6430.1	35.8
0°-60°	11596.5	64.6
0°-90°	15867.0	88.3
90°-120°	1375.6	7.7
90°-150°	2014.1	11.2
90°-180°	2098.0	11.7
0°-180°	17965.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4990	4990	4990	4990	4990	
5°	5002	4993	4950	4990	4978	475
15°	4793	4808	4805	4870	4870	1351
25°	4375	4436	4488	4587	4590	2017
35°	3802	3904	4036	4166	4202	2380
45°	3126	3289	3489	3646	3689	2409
55°	2378	2590	2840	3018	3080	2129
65°	1609	1840	2126	2335	2400	1595
75°	837	1080	1397	1618	1707	888
85°	185	458	775	991	1077	212
90°	3	258	548	754	828	12
95°	3	246	532	729	800	3
105°	3	212	498	686	748	3
115°	6	185	422	609	677	5
125°	6	157	360	520	584	6
135°	6	123	302	428	480	5
145°	6	89	209	323	363	4
155°	9	62	129	206	240	4
165°	9	40	71	95	123	3
175°	9	15	22	22	12	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4990.0	4990.0	4990.0	4990.0	4990.0
2.5°	5023.8	5008.4	4956.1	4990.0	4974.6
5°	5002.3	4993.1	4950.0	4990.0	4977.7
7.5°	4968.4	4965.4	4931.5	4977.7	4965.4
10°	4922.3	4928.5	4900.8	4950.0	4940.8
12.5°	4863.8	4873.1	4860.8	4916.1	4910.0
15°	4793.1	4808.5	4805.4	4870.0	4870.0
17.5°	4707.0	4728.5	4740.8	4814.6	4814.6
20°	4605.4	4639.3	4663.9	4743.9	4756.2
22.5°	4503.9	4543.9	4580.8	4663.9	4682.3
25°	4374.7	4436.2	4488.5	4587.0	4590.0
27.5°	4248.6	4316.2	4387.0	4482.4	4491.6
30°	4110.1	4196.3	4282.4	4374.7	4402.4
32.5°	3962.5	4057.8	4153.2	4276.2	4313.2
35°	3802.5	3904.0	4036.3	4165.5	4202.4
37.5°	3642.5	3756.3	3910.2	4042.4	4076.3
40°	3479.5	3605.6	3777.9	3913.2	3953.2
42.5°	3297.9	3451.8	3636.3	3780.9	3827.1
45°	3125.7	3288.7	3488.7	3645.6	3688.6
47.5°	2944.2	3116.4	3331.8	3497.9	3547.1
50°	2750.3	2947.2	3178.0	3344.1	3390.2
52.5°	2568.8	2768.8	3011.8	3184.1	3248.7
55°	2378.1	2590.4	2839.6	3018.0	3079.5
57.5°	2199.7	2402.7	2670.3	2848.8	2925.7
60°	1996.6	2221.2	2488.8	2682.7	2744.2
62.5°	1805.9	2033.5	2310.4	2510.4	2581.1
65°	1609.0	1839.7	2125.8	2335.0	2399.6
67.5°	1424.4	1652.0	1944.3	2150.4	2233.5
70°	1221.3	1461.3	1759.7	1972.0	2042.8
72.5°	1021.4	1270.6	1575.1	1802.8	1882.8
75°	836.8	1079.8	1396.7	1618.2	1707.4
77.5°	658.4	904.5	1224.4	1452.1	1529.0
80°	479.9	738.3	1064.4	1289.0	1362.9
82.5°	316.9	587.6	910.6	1135.2	1215.2
85°	184.6	458.4	775.3	990.6	1076.8
87.5°	80.0	347.6	649.1	861.4	932.2
90°	3.1	258.4	547.6	753.7	827.6
92.5°	3.1	252.3	535.3	738.3	809.1
95°	3.1	246.1	532.2	729.1	799.9
97.5°	3.1	243.0	526.1	723.0	790.6
100°	3.1	233.8	516.8	710.7	778.3
102.5°	3.1	221.5	507.6	698.4	763.0
105°	3.1	212.3	498.4	686.0	747.6
107.5°	3.1	203.0	483.0	670.7	732.2
110°	3.1	193.8	458.4	655.3	716.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	190.7	439.9	633.7	698.4
115°	6.2	184.6	421.5	609.1	676.8
117.5°	6.2	181.5	406.1	584.5	655.3
120°	6.2	172.3	390.7	563.0	630.7
122.5°	6.2	163.1	375.3	541.5	609.1
125°	6.2	156.9	359.9	519.9	584.5
127.5°	6.2	147.7	347.6	498.4	556.8
130°	6.2	141.5	332.3	473.8	532.2
132.5°	6.2	132.3	316.9	449.2	504.5
135°	6.2	123.1	301.5	427.6	479.9
137.5°	6.2	110.8	283.0	403.0	452.2
140°	6.2	101.5	258.4	378.4	424.5
142.5°	6.2	95.4	233.8	350.7	393.8
145°	6.2	89.2	209.2	323.0	363.0
147.5°	6.2	83.1	187.7	295.3	332.3
150°	6.2	73.8	166.1	270.7	301.5
152.5°	9.2	67.7	147.7	240.0	270.7
155°	9.2	61.5	129.2	206.1	240.0
157.5°	9.2	55.4	110.8	172.3	209.2
160°	9.2	49.2	95.4	141.5	178.4
162.5°	9.2	46.1	83.1	116.9	150.7
165°	9.2	40.0	70.8	95.4	123.1
167.5°	9.2	30.8	58.5	73.8	101.5
170°	9.2	24.6	46.1	52.3	76.9
172.5°	9.2	18.5	33.8	36.9	40.0
175°	9.2	15.4	21.5	21.5	12.3
177.5°	9.2	12.3	12.3	12.3	6.2
180°	6.2	6.2	6.2	6.2	6.2

(END OF REPORT)