

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: P567635

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

Issue Date: 9/15/2022



**Test Information**

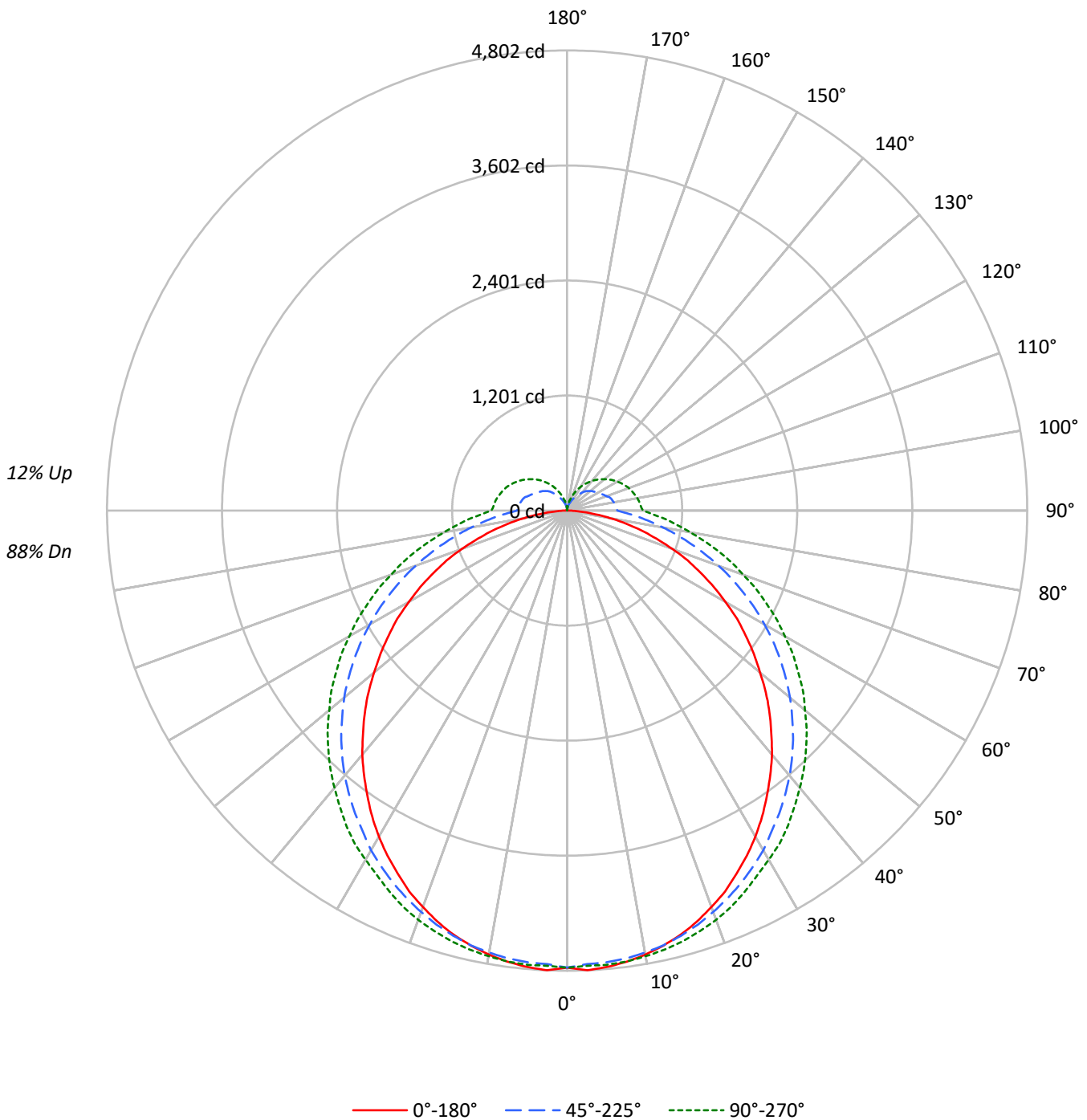
Test Method: LM-79-08  
Report Number: P567635  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-186HL-FDL-UNV-L835-CD  
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17170.0 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: 0.04')  
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°	25668	25668	25668
5°	25817	25290	25333
10°	25686	25060	25069
15°	25489	24783	24825
20°	25162	24448	24546
25°	24769	24109	24172
30°	24339	23768	23853
35°	23791	23358	23631
40°	23262	23020	23288
45°	22619	22628	22999
50°	21873	22213	22634
55°	21169	21699	22307
60°	20357	21152	21907
65°	19367	20524	21516
70°	18109	19841	21073
75°	16314	19097	20921
80°	13809	18665	20754
85°	10281	19152	21875



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.8	2.6
10°-20°	1302.4	7.6
20°-30°	1981.3	11.5
30°-40°	2409.1	14.0
40°-50°	2548.7	14.8
50°-60°	2389.1	13.9
60°-70°	1965.4	11.4
70°-80°	1359.9	7.9
80°-90°	756.2	4.4
90°-100°	498.2	2.9
100°-110°	446.7	2.6
110°-120°	369.8	2.2
120°-130°	285.9	1.7
130°-140°	202.4	1.2
140°-150°	122.1	0.7
150°-160°	58.6	0.3
160°-170°	19.2	0.1
170°-180°	2.3	0.0
0°-30°	3736.5	21.8
0°-40°	6145.5	35.8
0°-60°	11083.3	64.6
0°-90°	15164.9	88.3
90°-120°	1314.7	7.7
90°-150°	1925.0	11.2
90°-180°	2005.0	11.7
0°-180°	17170.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4769	4769	4769	4769	4769	
5°	4781	4772	4731	4769	4757	454
15°	4581	4596	4593	4654	4654	1291
25°	4181	4240	4290	4384	4387	1927
35°	3634	3731	3858	3981	4016	2274
45°	2987	3143	3334	3484	3525	2303
55°	2273	2476	2714	2884	2943	2035
65°	1538	1758	2032	2232	2293	1525
75°	800	1032	1335	1547	1632	848
85°	176	438	741	947	1029	203
90°	3	247	523	720	791	12
95°	3	235	509	697	764	2
105°	3	203	476	656	714	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	229	4
165°	9	38	68	91	118	2
175°	9	15	21	21	12	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4769.2	4769.2	4769.2	4769.2	4769.2
2.5°	4801.5	4786.8	4736.8	4769.2	4754.5
5°	4780.9	4772.1	4730.9	4769.2	4757.4
7.5°	4748.6	4745.6	4713.3	4757.4	4745.6
10°	4704.5	4710.4	4683.9	4730.9	4722.1
12.5°	4648.6	4657.4	4645.7	4698.6	4692.7
15°	4581.0	4595.7	4592.7	4654.5	4654.5
17.5°	4498.7	4519.2	4531.0	4601.6	4601.6
20°	4401.6	4434.0	4457.5	4533.9	4545.7
22.5°	4304.6	4342.8	4378.1	4457.5	4475.1
25°	4181.1	4239.9	4289.9	4384.0	4386.9
27.5°	4060.6	4125.2	4192.9	4284.0	4292.8
30°	3928.2	4010.6	4092.9	4181.1	4207.6
32.5°	3787.1	3878.3	3969.4	4087.0	4122.3
35°	3634.2	3731.2	3857.7	3981.2	4016.4
37.5°	3481.3	3590.1	3737.1	3863.6	3895.9
40°	3325.5	3446.0	3610.7	3740.1	3778.3
42.5°	3152.0	3299.0	3475.4	3613.6	3657.7
45°	2987.3	3143.2	3334.3	3484.3	3525.4
47.5°	2813.9	2978.5	3184.3	3343.1	3390.2
50°	2628.6	2816.8	3037.3	3196.1	3240.2
52.5°	2455.1	2646.3	2878.6	3043.2	3105.0
55°	2272.8	2475.7	2713.9	2884.4	2943.2
57.5°	2102.3	2296.4	2552.2	2722.7	2796.2
60°	1908.3	2122.9	2378.7	2563.9	2622.7
62.5°	1726.0	1943.5	2208.2	2399.3	2466.9
65°	1537.8	1758.3	2031.7	2231.7	2293.4
67.5°	1361.4	1578.9	1858.3	2055.3	2134.7
70°	1167.3	1396.6	1681.9	1884.7	1952.4
72.5°	976.2	1214.3	1505.4	1723.0	1799.5
75°	799.8	1032.0	1334.9	1546.6	1631.9
77.5°	629.2	864.4	1170.2	1387.8	1461.3
80°	458.7	705.7	1017.3	1232.0	1302.6
82.5°	302.9	561.6	870.3	1085.0	1161.4
85°	176.4	438.1	741.0	946.8	1029.1
87.5°	76.4	332.3	620.4	823.3	890.9
90°	2.9	247.0	523.4	720.4	790.9
92.5°	2.9	241.1	511.6	705.7	773.3
95°	2.9	235.2	508.7	696.9	764.5
97.5°	2.9	232.3	502.8	691.0	755.7
100°	2.9	223.5	494.0	679.2	743.9
102.5°	2.9	211.7	485.1	667.4	729.2
105°	2.9	202.9	476.3	655.7	714.5
107.5°	2.9	194.1	461.6	641.0	699.8
110°	2.9	185.2	438.1	626.3	685.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	182.3	420.5	605.7	667.4
115°	5.9	176.4	402.8	582.2	646.9
117.5°	5.9	173.5	388.1	558.7	626.3
120°	5.9	164.7	373.4	538.1	602.8
122.5°	5.9	155.8	358.7	517.5	582.2
125°	5.9	150.0	344.0	496.9	558.7
127.5°	5.9	141.1	332.3	476.3	532.2
130°	5.9	135.3	317.6	452.8	508.7
132.5°	5.9	126.4	302.9	429.3	482.2
135°	5.9	117.6	288.1	408.7	458.7
137.5°	5.9	105.9	270.5	385.2	432.2
140°	5.9	97.0	247.0	361.7	405.8
142.5°	5.9	91.1	223.5	335.2	376.4
145°	5.9	85.3	199.9	308.7	347.0
147.5°	5.9	79.4	179.4	282.3	317.6
150°	5.9	70.6	158.8	258.7	288.1
152.5°	8.8	64.7	141.1	229.3	258.7
155°	8.8	58.8	123.5	197.0	229.3
157.5°	8.8	52.9	105.9	164.7	199.9
160°	8.8	47.0	91.1	135.3	170.5
162.5°	8.8	44.1	79.4	111.7	144.1
165°	8.8	38.2	67.6	91.1	117.6
167.5°	8.8	29.4	55.9	70.6	97.0
170°	8.8	23.5	44.1	50.0	73.5
172.5°	8.8	17.6	32.3	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)