

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: P567661

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567661
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-L850-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

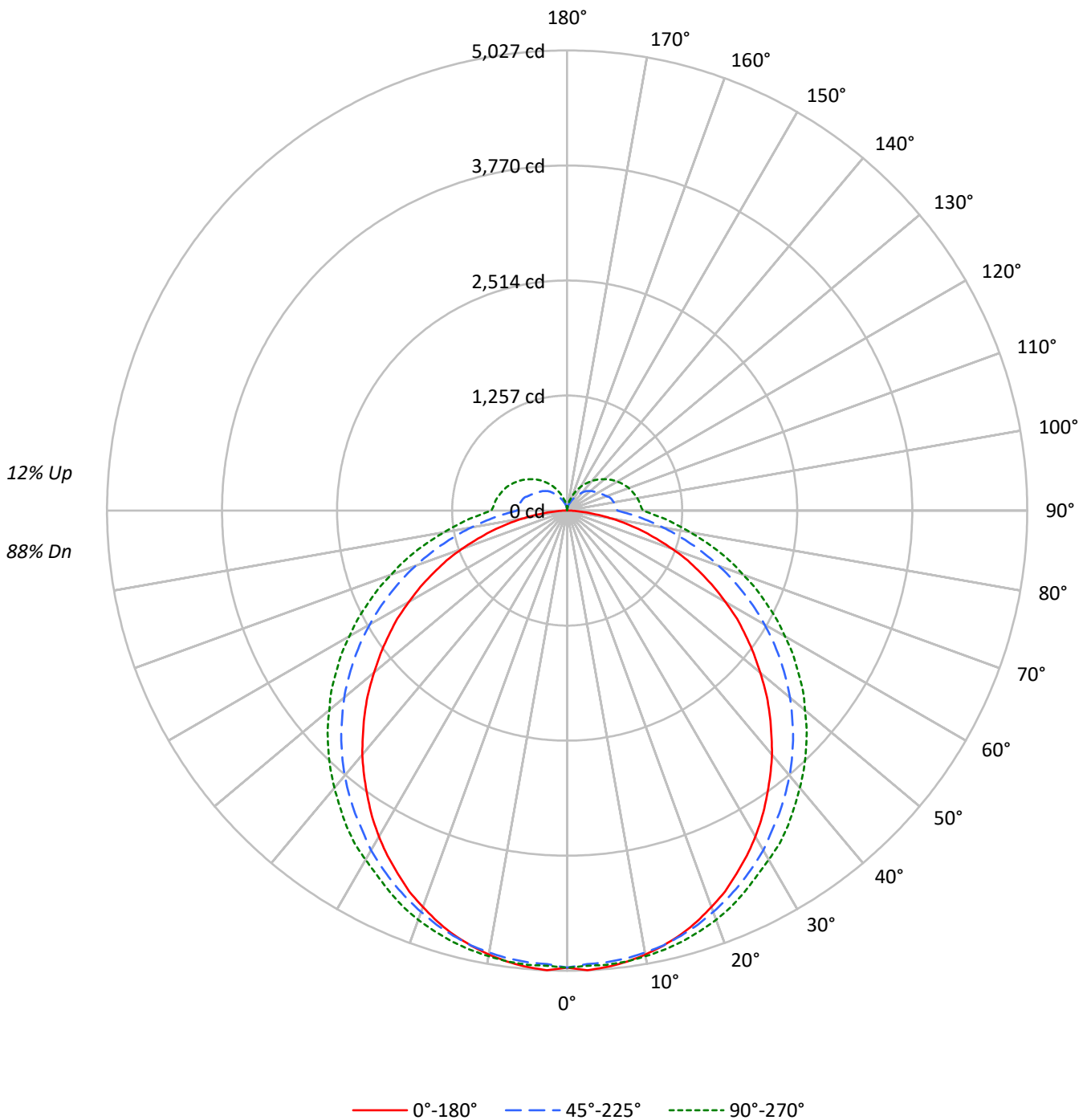
Lumens per Lamp: N/A
Luminaire Lumens: 17975.0 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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: P567661

CATALOG NUMBER: 8SNX-186HL-LW-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567661

CATALOG NUMBER: 8SNX-186HL-LW-UNV-L850-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°	26871	26871	26871
5°	26991	25665	25424
10°	26817	24682	24174
15°	26573	23702	23035
20°	26193	22709	21933
25°	25743	21741	20805
30°	25253	20792	19766
35°	24637	19795	18834
40°	24039	18862	17820
45°	23318	17877	16854
50°	22483	16857	15827
55°	21681	15734	14810
60°	20754	14552	13716
65°	19625	13261	12584
70°	18188	11862	11358
75°	16155	10326	10185
80°	13310	8786	8840
85°	9212	7306	7718



TEST NUMBER: P567661

CATALOG NUMBER: 8SNX-186HL-LW-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.0	2.6
10°-20°	1363.5	7.6
20°-30°	2074.2	11.5
30°-40°	2522.0	14.0
40°-50°	2668.2	14.8
50°-60°	2501.1	13.9
60°-70°	2057.6	11.4
70°-80°	1423.7	7.9
80°-90°	791.6	4.4
90°-100°	521.6	2.9
100°-110°	467.7	2.6
110°-120°	387.1	2.2
120°-130°	299.3	1.7
130°-140°	211.8	1.2
140°-150°	127.8	0.7
150°-160°	61.4	0.3
160°-170°	20.1	0.1
170°-180°	2.4	0.0
0°-30°	3911.6	21.8
0°-40°	6433.6	35.8
0°-60°	11603.0	64.6
0°-90°	15875.9	88.3
90°-120°	1376.3	7.7
90°-150°	2015.2	11.2
90°-180°	2099.0	11.7
0°-180°	17975.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4993	4993	4993	4993	4993	
5°	5005	4996	4953	4993	4980	475
15°	4796	4811	4808	4873	4873	1352
25°	4377	4439	4491	4590	4593	2018
35°	3805	3906	4038	4168	4205	2381
45°	3127	3290	3491	3648	3691	2411
55°	2379	2592	2841	3020	3081	2130
65°	1610	1841	2127	2336	2401	1596
75°	837	1080	1398	1619	1708	888
85°	185	459	776	991	1077	213
90°	3	259	548	754	828	12
95°	3	246	532	730	800	3
105°	3	212	499	686	748	3
115°	6	185	422	610	677	5
125°	6	157	360	520	585	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	



TEST NUMBER: P567661

CATALOG NUMBER: 8SNX-186HL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4992.8	4992.8	4992.8	4992.8	4992.8
2.5°	5026.6	5011.2	4958.9	4992.8	4977.4
5°	5005.1	4995.8	4952.7	4992.8	4980.4
7.5°	4971.2	4968.1	4934.3	4980.4	4968.1
10°	4925.0	4931.2	4903.5	4952.7	4943.5
12.5°	4866.6	4875.8	4863.5	4918.9	4912.7
15°	4795.8	4811.1	4808.1	4872.7	4872.7
17.5°	4709.6	4731.1	4743.4	4817.3	4817.3
20°	4608.0	4641.9	4666.5	4746.5	4758.8
22.5°	4506.4	4546.4	4583.4	4666.5	4684.9
25°	4377.1	4438.7	4491.0	4589.5	4592.6
27.5°	4250.9	4318.6	4389.4	4484.9	4494.1
30°	4112.4	4198.6	4284.8	4377.1	4404.8
32.5°	3964.7	4060.1	4155.5	4278.6	4315.6
35°	3804.6	3906.2	4038.5	4167.8	4204.8
37.5°	3644.5	3758.4	3912.3	4044.7	4078.5
40°	3481.4	3607.6	3780.0	3915.4	3955.4
42.5°	3299.8	3453.7	3638.4	3783.0	3829.2
45°	3127.4	3290.5	3490.6	3647.6	3690.7
47.5°	2945.8	3118.2	3333.6	3499.9	3549.1
50°	2751.9	2948.9	3179.7	3345.9	3392.1
52.5°	2570.3	2770.3	3013.5	3185.9	3250.5
55°	2379.4	2591.8	2841.1	3019.7	3081.2
57.5°	2200.9	2404.0	2671.8	2850.4	2927.3
60°	1997.7	2222.4	2490.2	2684.1	2745.7
62.5°	1806.9	2034.7	2311.7	2511.8	2582.6
65°	1609.9	1840.7	2127.0	2336.3	2401.0
67.5°	1425.2	1653.0	1945.4	2151.6	2234.7
70°	1222.0	1462.1	1760.7	1973.1	2043.9
72.5°	1021.9	1271.3	1576.0	1803.8	1883.8
75°	837.3	1080.4	1397.5	1619.1	1708.4
77.5°	658.7	905.0	1225.1	1452.9	1529.8
80°	480.2	738.8	1065.0	1289.7	1363.6
82.5°	317.0	587.9	911.1	1135.8	1215.9
85°	184.7	458.6	775.7	991.2	1077.4
87.5°	80.0	347.8	649.5	861.9	932.7
90°	3.1	258.6	547.9	754.1	828.0
92.5°	3.1	252.4	535.6	738.8	809.6
95°	3.1	246.3	532.5	729.5	800.3
97.5°	3.1	243.2	526.4	723.4	791.1
100°	3.1	233.9	517.1	711.1	778.8
102.5°	3.1	221.6	507.9	698.7	763.4
105°	3.1	212.4	498.7	686.4	748.0
107.5°	3.1	203.2	483.3	671.0	732.6
110°	3.1	193.9	458.6	655.6	717.2



TEST NUMBER: P567661

CATALOG NUMBER: 8SNX-186HL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	190.8	440.2	634.1	698.7
115°	6.2	184.7	421.7	609.5	677.2
117.5°	6.2	181.6	406.3	584.8	655.6
120°	6.2	172.4	390.9	563.3	631.0
122.5°	6.2	163.1	375.5	541.8	609.5
125°	6.2	157.0	360.1	520.2	584.8
127.5°	6.2	147.8	347.8	498.7	557.1
130°	6.2	141.6	332.4	474.0	532.5
132.5°	6.2	132.4	317.0	449.4	504.8
135°	6.2	123.1	301.7	427.9	480.2
137.5°	6.2	110.8	283.2	403.2	452.5
140°	6.2	101.6	258.6	378.6	424.8
142.5°	6.2	95.4	233.9	350.9	394.0
145°	6.2	89.3	209.3	323.2	363.2
147.5°	6.2	83.1	187.8	295.5	332.4
150°	6.2	73.9	166.2	270.9	301.7
152.5°	9.2	67.7	147.8	240.1	270.9
155°	9.2	61.6	129.3	206.2	240.1
157.5°	9.2	55.4	110.8	172.4	209.3
160°	9.2	49.3	95.4	141.6	178.5
162.5°	9.2	46.2	83.1	117.0	150.8
165°	9.2	40.0	70.8	95.4	123.1
167.5°	9.2	30.8	58.5	73.9	101.6
170°	9.2	24.6	46.2	52.3	77.0
172.5°	9.2	18.5	33.9	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)