

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: P567663

Luminaire Tested: **8SNX-186HL-LW-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567663
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-L935-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

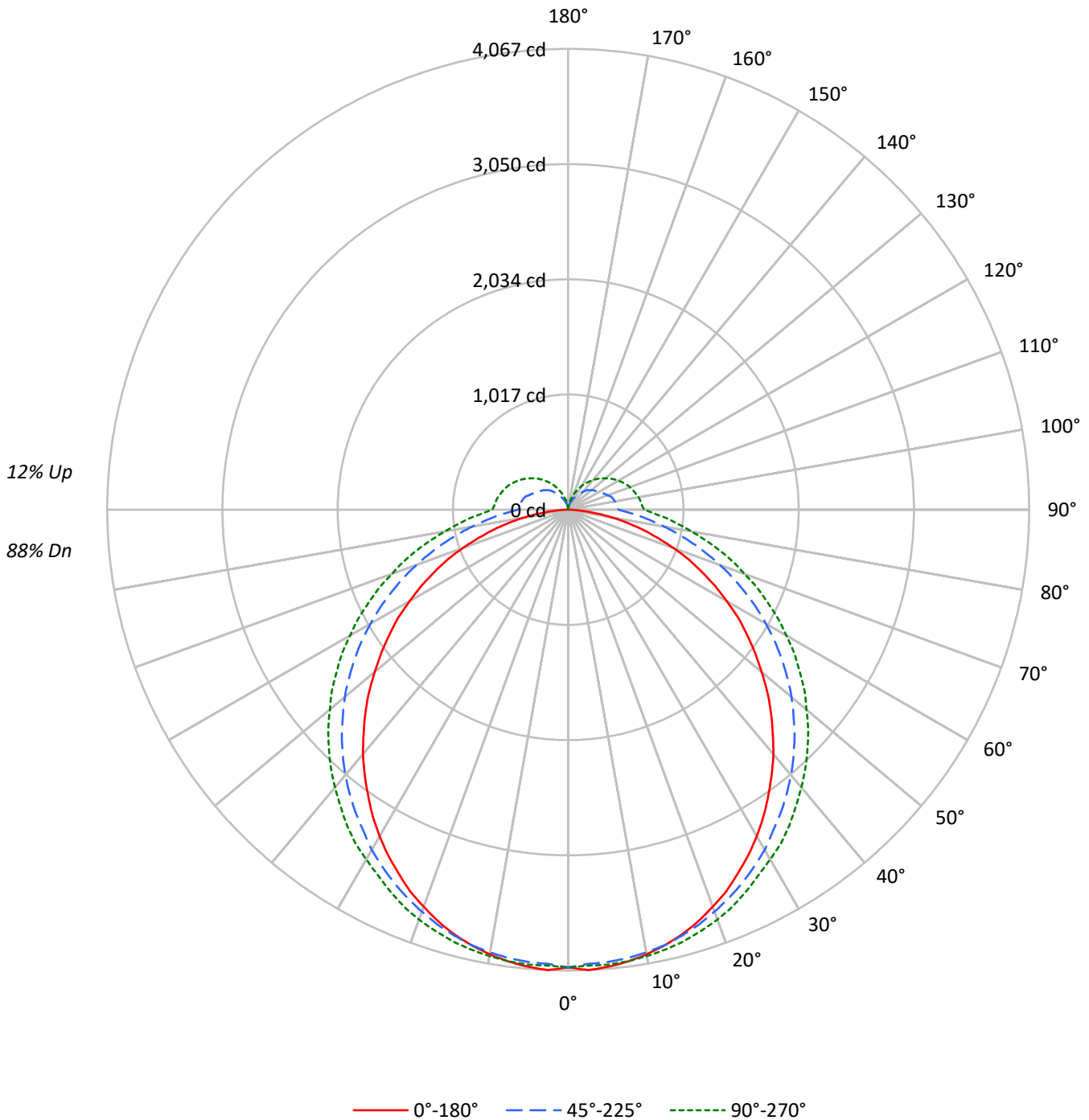
Lumens per Lamp: N/A
Luminaire Lumens: 14543.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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

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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°	21740	21740	21740
5°	21837	20765	20570
10°	21697	19969	19559
15°	21499	19177	18637
20°	21192	18373	17746
25°	20828	17590	16832
30°	20431	16822	15992
35°	19933	16016	15238
40°	19449	15261	14418
45°	18866	14464	13636
50°	18190	13638	12805
55°	17542	12730	11983
60°	16792	11774	11097
65°	15878	10729	10181
70°	14716	9597	9189
75°	13070	8354	8240
80°	10769	7108	7152
85°	7451	5911	6244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.5	2.6
10°-20°	1103.1	7.6
20°-30°	1678.2	11.5
30°-40°	2040.5	14.0
40°-50°	2158.8	14.8
50°-60°	2023.6	13.9
60°-70°	1664.7	11.4
70°-80°	1151.8	7.9
80°-90°	640.5	4.4
90°-100°	422.0	2.9
100°-110°	378.4	2.6
110°-120°	313.2	2.2
120°-130°	242.1	1.7
130°-140°	171.4	1.2
140°-150°	103.4	0.7
150°-160°	49.7	0.3
160°-170°	16.3	0.1
170°-180°	2.0	0.0
0°-30°	3164.8	21.8
0°-40°	5205.3	35.8
0°-60°	9387.6	64.6
0°-90°	12844.7	88.3
90°-120°	1113.5	7.7
90°-150°	1630.4	11.2
90°-180°	1698.0	11.7
0°-180°	14543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4040	4040	4040	4040	4040	
5°	4049	4042	4007	4040	4030	384
15°	3880	3892	3890	3942	3942	1094
25°	3541	3591	3634	3713	3716	1632
35°	3078	3160	3267	3372	3402	1926
45°	2530	2662	2824	2951	2986	1950
55°	1925	2097	2299	2443	2493	1723
65°	1302	1489	1721	1890	1942	1291
75°	677	874	1131	1310	1382	719
85°	149	371	628	802	872	172
90°	2	209	443	610	670	10
95°	2	199	431	590	648	2
105°	2	172	404	555	605	3
115°	5	149	341	493	548	4
125°	5	127	291	421	473	4
135°	5	100	244	346	388	4
145°	5	72	169	262	294	3
155°	8	50	105	167	194	3
165°	8	32	57	77	100	2
175°	8	12	17	17	10	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4039.5	4039.5	4039.5	4039.5	4039.5
2.5°	4066.9	4054.4	4012.1	4039.5	4027.0
5°	4049.4	4042.0	4007.1	4039.5	4029.5
7.5°	4022.1	4019.6	3992.2	4029.5	4019.6
10°	3984.7	3989.7	3967.3	4007.1	3999.6
12.5°	3937.4	3944.8	3934.9	3979.7	3974.7
15°	3880.1	3892.5	3890.1	3942.4	3942.4
17.5°	3810.4	3827.8	3837.8	3897.5	3897.5
20°	3728.2	3755.6	3775.5	3840.2	3850.2
22.5°	3646.0	3678.4	3708.3	3775.5	3790.4
25°	3541.4	3591.2	3633.5	3713.2	3715.7
27.5°	3439.3	3494.1	3551.4	3628.6	3636.0
30°	3327.2	3397.0	3466.7	3541.4	3563.8
32.5°	3207.7	3284.9	3362.1	3461.7	3491.6
35°	3078.2	3160.4	3267.4	3372.0	3401.9
37.5°	2948.7	3040.8	3165.3	3272.4	3299.8
40°	2816.7	2918.8	3058.3	3167.8	3200.2
42.5°	2669.7	2794.3	2943.7	3060.7	3098.1
45°	2530.3	2662.3	2824.2	2951.2	2986.0
47.5°	2383.3	2522.8	2697.1	2831.6	2871.5
50°	2226.4	2385.8	2572.6	2707.1	2744.5
52.5°	2079.5	2241.4	2438.1	2577.6	2629.9
55°	1925.1	2096.9	2298.7	2443.1	2492.9
57.5°	1780.7	1945.0	2161.7	2306.1	2368.4
60°	1616.3	1798.1	2014.8	2171.7	2221.5
62.5°	1461.9	1646.2	1870.3	2032.2	2089.5
65°	1302.5	1489.3	1720.9	1890.2	1942.5
67.5°	1153.1	1337.4	1574.0	1740.8	1808.1
70°	988.7	1183.0	1424.5	1596.4	1653.6
72.5°	826.8	1028.5	1275.1	1459.4	1524.1
75°	677.4	874.1	1130.7	1310.0	1382.2
77.5°	533.0	732.2	991.2	1175.5	1237.7
80°	388.5	597.7	861.7	1043.5	1103.3
82.5°	256.5	475.7	737.2	919.0	983.7
85°	149.4	371.1	627.6	801.9	871.7
87.5°	64.8	281.4	525.5	697.3	754.6
90°	2.5	209.2	443.3	610.2	669.9
92.5°	2.5	204.2	433.3	597.7	655.0
95°	2.5	199.2	430.8	590.2	647.5
97.5°	2.5	196.7	425.9	585.3	640.0
100°	2.5	189.3	418.4	575.3	630.1
102.5°	2.5	179.3	410.9	565.3	617.6
105°	2.5	171.8	403.5	555.4	605.2
107.5°	2.5	164.4	391.0	542.9	592.7
110°	2.5	156.9	371.1	530.5	580.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	154.4	356.1	513.0	565.3
115°	5.0	149.4	341.2	493.1	547.9
117.5°	5.0	146.9	328.7	473.2	530.5
120°	5.0	139.5	316.3	455.7	510.5
122.5°	5.0	132.0	303.8	438.3	493.1
125°	5.0	127.0	291.4	420.9	473.2
127.5°	5.0	119.5	281.4	403.5	450.8
130°	5.0	114.6	269.0	383.5	430.8
132.5°	5.0	107.1	256.5	363.6	408.4
135°	5.0	99.6	244.1	346.2	388.5
137.5°	5.0	89.7	229.1	326.2	366.1
140°	5.0	82.2	209.2	306.3	343.7
142.5°	5.0	77.2	189.3	283.9	318.8
145°	5.0	72.2	169.3	261.5	293.9
147.5°	5.0	67.2	151.9	239.1	269.0
150°	5.0	59.8	134.5	219.2	244.1
152.5°	7.5	54.8	119.5	194.3	219.2
155°	7.5	49.8	104.6	166.9	194.3
157.5°	7.5	44.8	89.7	139.5	169.3
160°	7.5	39.8	77.2	114.6	144.4
162.5°	7.5	37.4	67.2	94.6	122.0
165°	7.5	32.4	57.3	77.2	99.6
167.5°	7.5	24.9	47.3	59.8	82.2
170°	7.5	19.9	37.4	42.3	62.3
172.5°	7.5	14.9	27.4	29.9	32.4
175°	7.5	12.5	17.4	17.4	10.0
177.5°	7.5	10.0	10.0	10.0	5.0
180°	5.0	5.0	5.0	5.0	5.0

(END OF REPORT)