

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: P567639

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567639
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-L935-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

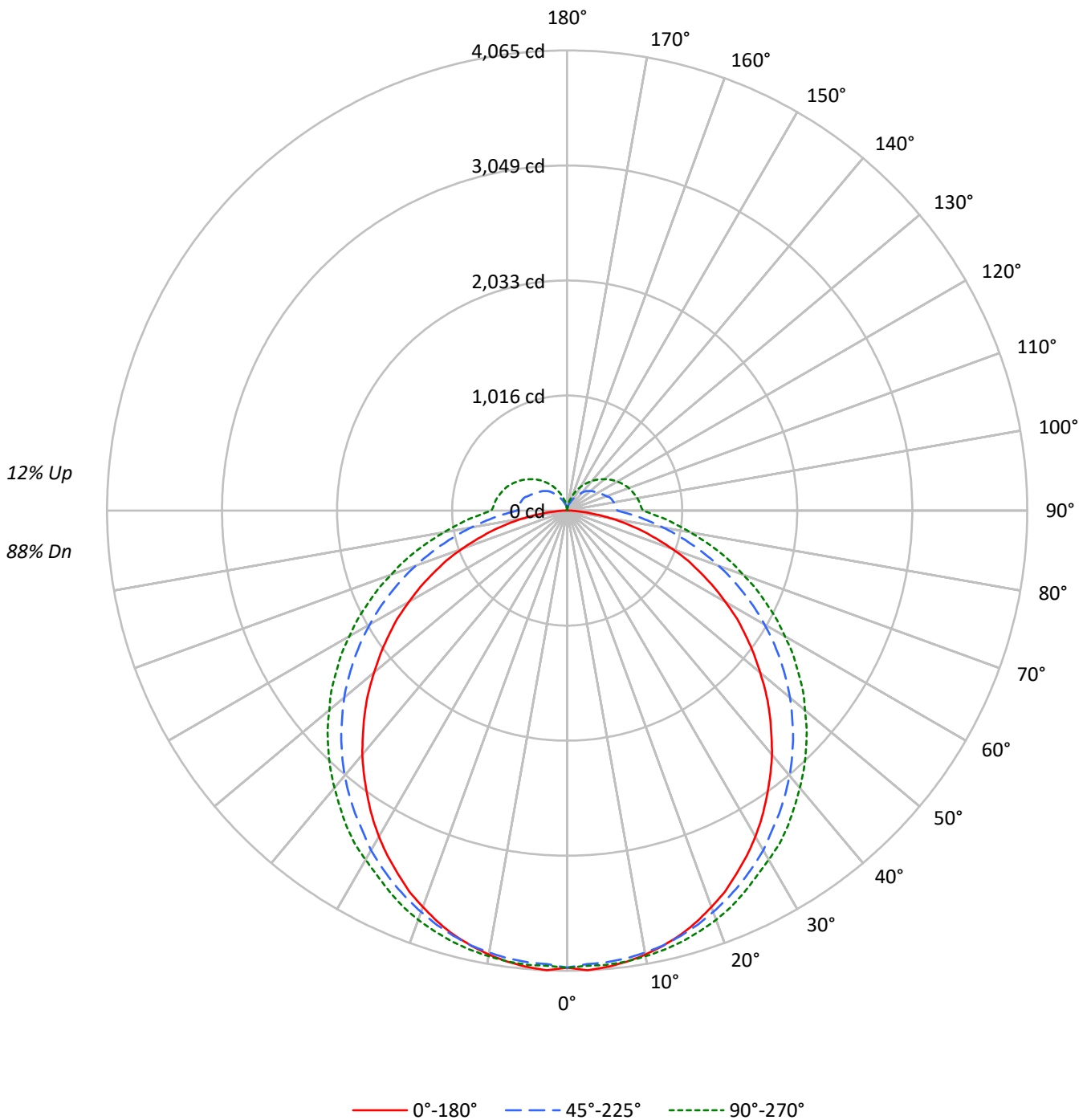
Lumens per Lamp: N/A
Luminaire Lumens: 14535.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

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°	21729	21729	21729
5°	21855	21409	21445
10°	21744	21215	21222
15°	21577	20979	21016
20°	21300	20696	20779
25°	20967	20408	20463
30°	20604	20120	20192
35°	20140	19773	20005
40°	19692	19487	19714
45°	19148	19155	19470
50°	18516	18805	19160
55°	17920	18369	18884
60°	17233	17906	18545
65°	16395	17374	18214
70°	15331	16795	17838
75°	13809	16165	17710
80°	11689	15801	17569
85°	8701	16211	18519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.3	2.6
10°-20°	1102.5	7.6
20°-30°	1677.2	11.5
30°-40°	2039.4	14.0
40°-50°	2157.6	14.8
50°-60°	2022.5	13.9
60°-70°	1663.8	11.4
70°-80°	1151.2	7.9
80°-90°	640.2	4.4
90°-100°	421.7	2.9
100°-110°	378.2	2.6
110°-120°	313.0	2.2
120°-130°	242.0	1.7
130°-140°	171.3	1.2
140°-150°	103.3	0.7
150°-160°	49.6	0.3
160°-170°	16.2	0.1
170°-180°	2.0	0.0
0°-30°	3163.0	21.8
0°-40°	5202.4	35.8
0°-60°	9382.4	64.6
0°-90°	12837.6	88.3
90°-120°	1112.9	7.7
90°-150°	1629.6	11.2
90°-180°	1697.0	11.7
0°-180°	14535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4037	4037	4037	4037	4037	
5°	4047	4040	4005	4037	4027	384
15°	3878	3890	3888	3940	3940	1093
25°	3539	3589	3632	3711	3714	1631
35°	3076	3159	3266	3370	3400	1925
45°	2529	2661	2823	2950	2984	1949
55°	1924	2096	2297	2442	2492	1722
65°	1302	1488	1720	1889	1942	1291
75°	677	874	1130	1309	1381	718
85°	149	371	627	802	871	172
90°	2	209	443	610	670	10
95°	2	199	431	590	647	2
105°	2	172	403	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	261	294	3
155°	8	50	104	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°	4037.3	4037.3	4037.3	4037.3	4037.3
2.5°	4064.6	4052.2	4009.9	4037.3	4024.8
5°	4047.2	4039.8	4004.9	4037.3	4027.3
7.5°	4019.8	4017.3	3990.0	4027.3	4017.3
10°	3982.5	3987.5	3965.1	4004.9	3997.4
12.5°	3935.2	3942.7	3932.7	3977.5	3972.5
15°	3878.0	3890.4	3887.9	3940.2	3940.2
17.5°	3808.3	3825.7	3835.6	3895.4	3895.4
20°	3726.1	3753.5	3773.4	3838.1	3848.1
22.5°	3644.0	3676.3	3706.2	3773.4	3788.4
25°	3539.4	3589.2	3631.5	3711.2	3713.7
27.5°	3437.4	3492.2	3549.4	3626.6	3634.0
30°	3325.4	3395.1	3464.8	3539.4	3561.8
32.5°	3205.9	3283.1	3360.2	3459.8	3489.7
35°	3076.5	3158.6	3265.7	3370.2	3400.1
37.5°	2947.1	3039.1	3163.6	3270.6	3298.0
40°	2815.1	2917.2	3056.6	3166.1	3198.4
42.5°	2668.3	2792.7	2942.1	3059.1	3096.4
45°	2528.9	2660.8	2822.6	2949.5	2984.4
47.5°	2382.0	2521.4	2695.7	2830.1	2869.9
50°	2225.2	2384.5	2571.2	2705.6	2742.9
52.5°	2078.4	2240.2	2436.8	2576.2	2628.5
55°	1924.0	2095.8	2297.4	2441.8	2491.6
57.5°	1779.7	1944.0	2160.5	2304.9	2367.1
60°	1615.4	1797.1	2013.7	2170.5	2220.2
62.5°	1461.1	1645.3	1869.3	2031.1	2088.3
65°	1301.8	1488.5	1719.9	1889.2	1941.5
67.5°	1152.4	1336.6	1573.1	1739.9	1807.1
70°	988.2	1182.3	1423.7	1595.5	1652.7
72.5°	826.4	1028.0	1274.4	1458.6	1523.3
75°	677.0	873.7	1130.0	1309.2	1381.4
77.5°	532.7	731.8	990.6	1174.8	1237.1
80°	388.3	597.4	861.2	1042.9	1102.7
82.5°	256.4	475.4	736.8	918.5	983.2
85°	149.3	370.9	627.2	801.5	871.2
87.5°	64.7	281.3	525.2	696.9	754.2
90°	2.5	209.1	443.1	609.8	669.6
92.5°	2.5	204.1	433.1	597.4	654.6
95°	2.5	199.1	430.6	589.9	647.2
97.5°	2.5	196.6	425.6	584.9	639.7
100°	2.5	189.2	418.2	575.0	629.7
102.5°	2.5	179.2	410.7	565.0	617.3
105°	2.5	171.7	403.2	555.1	604.8
107.5°	2.5	164.3	390.8	542.6	592.4
110°	2.5	156.8	370.9	530.2	580.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	154.3	355.9	512.7	565.0
115°	5.0	149.3	341.0	492.8	547.6
117.5°	5.0	146.9	328.6	472.9	530.2
120°	5.0	139.4	316.1	455.5	510.3
122.5°	5.0	131.9	303.7	438.1	492.8
125°	5.0	126.9	291.2	420.7	472.9
127.5°	5.0	119.5	281.3	403.2	450.5
130°	5.0	114.5	268.8	383.3	430.6
132.5°	5.0	107.0	256.4	363.4	408.2
135°	5.0	99.6	243.9	346.0	388.3
137.5°	5.0	89.6	229.0	326.1	365.9
140°	5.0	82.1	209.1	306.2	343.5
142.5°	5.0	77.2	189.2	283.8	318.6
145°	5.0	72.2	169.3	261.4	293.7
147.5°	5.0	67.2	151.8	239.0	268.8
150°	5.0	59.7	134.4	219.0	243.9
152.5°	7.5	54.8	119.5	194.1	219.0
155°	7.5	49.8	104.5	166.8	194.1
157.5°	7.5	44.8	89.6	139.4	169.3
160°	7.5	39.8	77.2	114.5	144.4
162.5°	7.5	37.3	67.2	94.6	122.0
165°	7.5	32.4	57.2	77.2	99.6
167.5°	7.5	24.9	47.3	59.7	82.1
170°	7.5	19.9	37.3	42.3	62.2
172.5°	7.5	14.9	27.4	29.9	32.4
175°	7.5	12.4	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)