

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: P567652

Luminaire Tested: **8SNX-186HL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-186HL-LN-UNV-L840-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

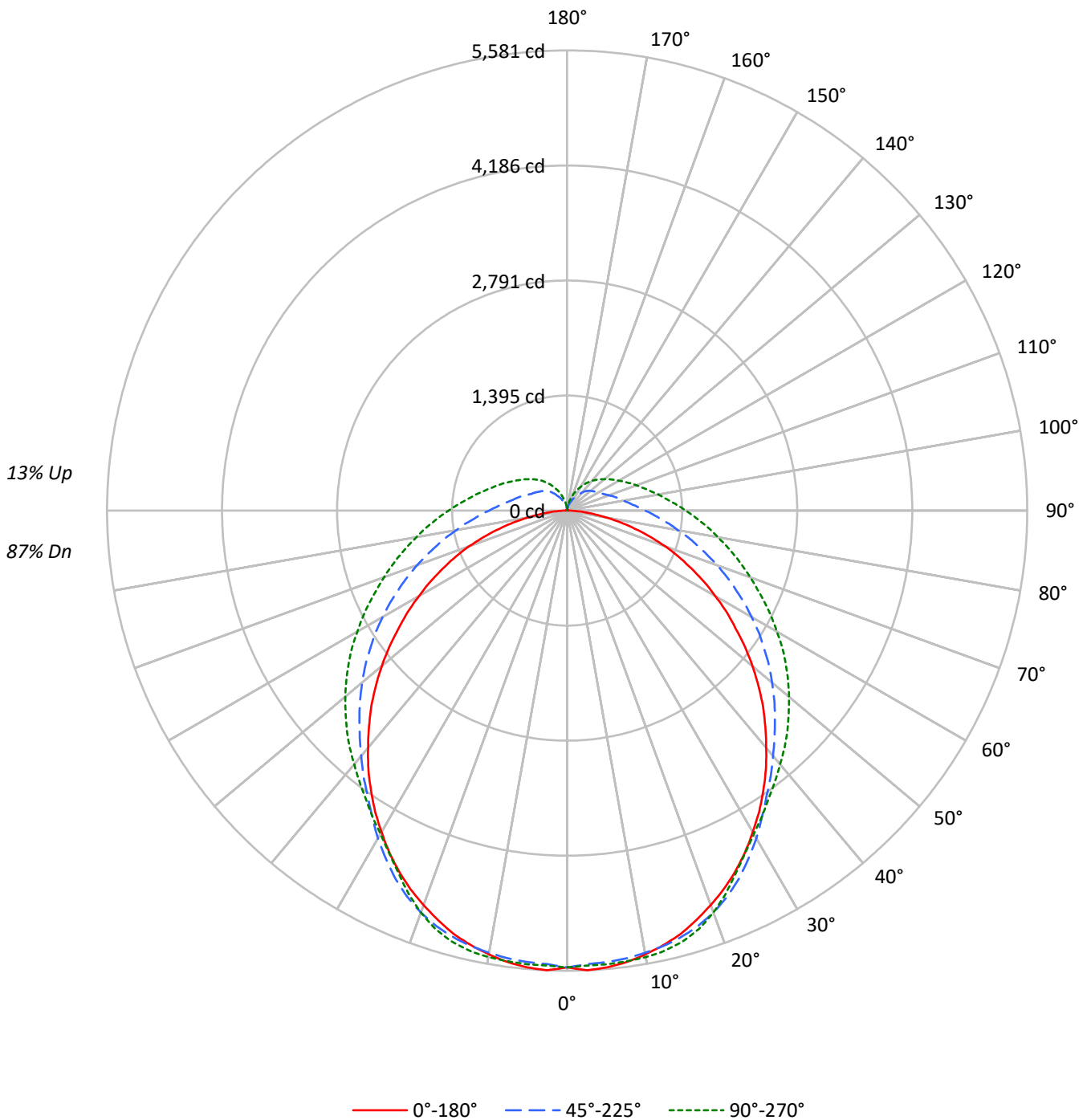
Lumens per Lamp: N/A
Luminaire Lumens: 19999.1 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29817	29817	29817
5°	29985	28481	28194
10°	29760	27408	26893
15°	29457	26391	25581
20°	28947	25244	23909
25°	28395	23848	21948
30°	27649	22277	20311
35°	26852	20674	19090
40°	25940	19389	18101
45°	25052	18250	17248
50°	23989	17201	16389
55°	22738	16148	15547
60°	21557	15097	14668
65°	20253	14036	13861
70°	18773	13043	13132
75°	16419	12075	12532
80°	13346	11244	12023
85°	9641	10665	11731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.3	2.6
10°-20°	1513.2	7.6
20°-30°	2253.2	11.3
30°-40°	2658.7	13.3
40°-50°	2772.7	13.9
50°-60°	2605.7	13.0
60°-70°	2200.5	11.0
70°-80°	1662.6	8.3
80°-90°	1146.1	5.7
90°-100°	802.0	4.0
100°-110°	598.5	3.0
110°-120°	451.2	2.3
120°-130°	336.5	1.7
130°-140°	236.2	1.2
140°-150°	142.8	0.7
150°-160°	68.3	0.3
160°-170°	21.9	0.1
170°-180°	2.6	0.0
0°-30°	4292.7	21.5
0°-40°	6951.4	34.8
0°-60°	12329.8	61.7
0°-90°	17339.1	86.7
90°-120°	1851.8	9.3
90°-150°	2567.2	12.8
90°-180°	2660.0	13.3
0°-180°	19999.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5540	5540	5540	5540	5540	
5°	5560	5550	5496	5537	5523	528
15°	5316	5340	5354	5421	5411	1497
25°	4828	4926	4926	4882	4845	2221
35°	4147	4299	4218	4252	4262	2593
45°	3360	3526	3563	3709	3777	2588
55°	2495	2709	2916	3150	3234	2239
65°	1661	1926	2251	2546	2645	1650
75°	851	1180	1634	1977	2102	906
85°	193	607	1132	1505	1638	217
90°	3	431	946	1309	1438	13
95°	3	336	800	1146	1265	3
105°	7	241	617	895	997	7
115°	7	207	478	712	804	7
125°	10	176	404	583	658	9
135°	10	136	336	475	532	8
145°	14	98	234	363	407	8
155°	14	64	142	231	268	6
165°	17	41	75	102	136	5
175°	17	17	20	20	10	2
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5540.1	5540.1	5540.1	5540.1	5540.1
2.5°	5580.8	5567.2	5506.2	5540.1	5523.1
5°	5560.4	5550.3	5496.0	5536.7	5523.1
7.5°	5523.1	5519.8	5479.1	5526.5	5513.0
10°	5465.5	5475.7	5445.2	5509.6	5499.4
12.5°	5397.7	5418.0	5407.9	5479.1	5468.9
15°	5316.3	5340.1	5353.6	5421.4	5411.3
17.5°	5207.8	5251.9	5282.4	5336.7	5319.7
20°	5092.5	5153.6	5187.5	5214.6	5187.5
22.5°	4967.1	5048.5	5068.8	5055.3	5028.1
25°	4828.1	4926.4	4926.4	4882.3	4845.0
27.5°	4672.1	4794.2	4760.3	4709.4	4678.9
30°	4502.6	4648.4	4590.8	4533.1	4526.3
32.5°	4333.1	4485.6	4400.9	4387.3	4397.5
35°	4146.6	4299.2	4217.8	4251.7	4261.9
37.5°	3960.1	4112.7	4058.4	4109.3	4139.8
40°	3756.7	3919.4	3885.5	3977.1	4017.8
42.5°	3556.6	3726.2	3722.8	3841.4	3902.5
45°	3360.0	3526.1	3563.4	3709.2	3777.0
47.5°	3146.4	3315.9	3407.5	3577.0	3644.8
50°	2936.2	3119.3	3244.7	3434.6	3512.6
52.5°	2719.2	2912.4	3085.4	3295.6	3376.9
55°	2495.4	2709.0	2915.8	3149.8	3234.5
57.5°	2295.4	2512.4	2756.5	2997.2	3095.5
60°	2075.0	2315.7	2583.6	2837.9	2936.2
62.5°	1875.0	2122.5	2420.8	2688.7	2793.8
65°	1661.4	1925.8	2251.3	2546.3	2644.6
67.5°	1464.7	1735.9	2091.9	2390.3	2498.8
70°	1261.3	1549.5	1936.0	2251.3	2363.2
72.5°	1051.1	1356.2	1780.0	2115.7	2231.0
75°	851.0	1179.9	1634.2	1976.7	2102.1
77.5°	664.5	1010.4	1502.0	1854.6	1976.7
80°	481.5	857.8	1363.0	1729.2	1854.6
82.5°	318.7	725.6	1251.1	1617.3	1749.5
85°	193.3	606.9	1132.4	1505.4	1637.6
87.5°	88.2	508.6	1037.5	1407.1	1535.9
90°	3.4	430.6	946.0	1308.7	1437.6
92.5°	3.4	376.3	871.4	1224.0	1349.4
95°	3.4	335.7	800.2	1146.0	1264.7
97.5°	3.4	308.5	745.9	1071.4	1186.7
100°	3.4	281.4	691.7	1003.6	1122.3
102.5°	6.8	257.7	651.0	942.6	1054.4
105°	6.8	240.7	617.1	895.1	996.8
107.5°	6.8	230.6	579.8	847.6	942.6
110°	6.8	220.4	539.1	800.2	895.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.8	213.6	508.6	759.5	851.0
115°	6.8	206.8	478.1	712.0	803.6
117.5°	6.8	203.4	461.1	674.7	762.9
120°	10.2	193.3	440.8	640.8	725.6
122.5°	10.2	183.1	420.4	613.7	688.3
125°	10.2	176.3	403.5	583.2	657.8
127.5°	10.2	166.1	386.5	556.0	623.9
130°	10.2	156.0	373.0	528.9	593.3
132.5°	10.2	145.8	356.0	501.8	562.8
135°	10.2	135.6	335.7	474.7	532.3
137.5°	10.2	125.4	315.3	447.5	501.8
140°	10.2	115.3	288.2	420.4	471.3
142.5°	10.2	105.1	261.1	393.3	437.4
145°	13.6	98.3	233.9	362.8	406.9
147.5°	13.6	88.2	206.8	332.3	369.6
150°	13.6	81.4	186.5	301.8	335.7
152.5°	13.6	71.2	166.1	267.9	301.8
155°	13.6	64.4	142.4	230.6	267.9
157.5°	13.6	57.6	122.1	193.3	233.9
160°	13.6	54.2	105.1	159.4	200.0
162.5°	17.0	47.5	88.2	128.8	166.1
165°	17.0	40.7	74.6	101.7	135.6
167.5°	17.0	33.9	61.0	78.0	105.1
170°	17.0	27.1	47.5	54.2	81.4
172.5°	17.0	20.3	33.9	37.3	40.7
175°	17.0	17.0	20.3	20.3	10.2
177.5°	17.0	17.0	13.6	10.2	3.4
180°	10.2	10.2	10.2	10.2	10.2

(END OF REPORT)