

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: P567669

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567669
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-SLW-UNV-L850-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

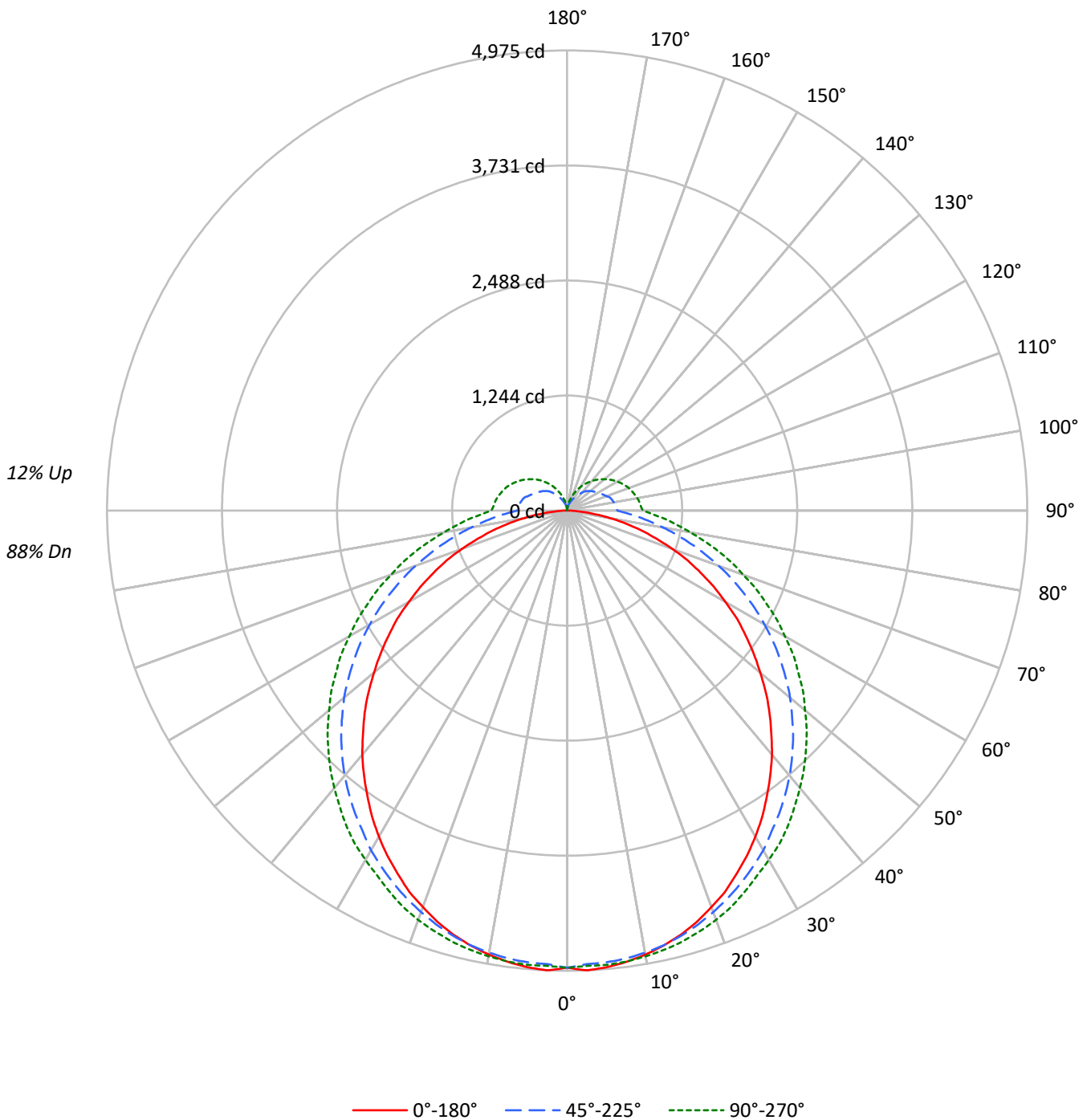
Lumens per Lamp: N/A
Luminaire Lumens: 17792.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

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°	26597	26597	26597
5°	26740	25935	25881
10°	26593	25439	25262
15°	26376	24901	24678
20°	26025	24312	24070
25°	25605	23720	23376
30°	25146	23125	22737
35°	24564	22457	22187
40°	24001	21848	21514
45°	23319	21172	20874
50°	22528	20452	20143
55°	21777	19608	19413
60°	20909	18693	18574
65°	19851	17648	17678
70°	18506	16470	16649
75°	16590	15111	15705
80°	13913	13769	14511
85°	10091	12586	13734



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.2	2.6
10°-20°	1349.6	7.6
20°-30°	2053.1	11.5
30°-40°	2496.3	14.0
40°-50°	2641.1	14.8
50°-60°	2475.6	13.9
60°-70°	2036.6	11.4
70°-80°	1409.2	7.9
80°-90°	783.6	4.4
90°-100°	516.2	2.9
100°-110°	462.9	2.6
110°-120°	383.2	2.2
120°-130°	296.2	1.7
130°-140°	209.7	1.2
140°-150°	126.5	0.7
150°-160°	60.7	0.3
160°-170°	19.9	0.1
170°-180°	2.4	0.0
0°-30°	3871.8	21.8
0°-40°	6368.2	35.8
0°-60°	11484.8	64.6
0°-90°	15714.2	88.3
90°-120°	1362.3	7.7
90°-150°	1994.7	11.2
90°-180°	2078.0	11.7
0°-180°	17792.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4942	4942	4942	4942	4942	
5°	4954	4945	4902	4942	4930	470
15°	4747	4762	4759	4823	4823	1338
25°	4333	4394	4445	4543	4546	1997
35°	3766	3866	3997	4125	4162	2357
45°	3096	3257	3455	3610	3653	2386
55°	2355	2565	2812	2989	3050	2108
65°	1594	1822	2105	2312	2376	1580
75°	829	1069	1383	1603	1691	879
85°	183	454	768	981	1066	210
90°	3	256	542	746	820	12
95°	3	244	527	722	792	2
105°	3	210	494	679	740	3
115°	6	183	417	603	670	5
125°	6	155	356	515	579	5
135°	6	122	299	424	475	5
145°	6	88	207	320	360	4
155°	9	61	128	204	238	4
165°	9	40	70	94	122	3
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°	4941.9	4941.9	4941.9	4941.9	4941.9
2.5°	4975.4	4960.2	4908.4	4941.9	4926.7
5°	4954.1	4945.0	4902.3	4941.9	4929.7
7.5°	4920.6	4917.6	4884.0	4929.7	4917.6
10°	4874.9	4881.0	4853.6	4902.3	4893.2
12.5°	4817.0	4826.2	4814.0	4868.8	4862.7
15°	4746.9	4762.2	4759.1	4823.1	4823.1
17.5°	4661.6	4683.0	4695.1	4768.3	4768.3
20°	4561.1	4594.6	4619.0	4698.2	4710.4
22.5°	4460.5	4500.1	4536.7	4619.0	4637.2
25°	4332.6	4393.5	4445.3	4542.8	4545.8
27.5°	4207.6	4274.7	4344.8	4439.2	4448.3
30°	4070.5	4155.9	4241.2	4332.6	4360.0
32.5°	3924.3	4018.7	4113.2	4235.1	4271.6
35°	3765.9	3866.4	3997.4	4125.4	4161.9
37.5°	3607.4	3720.2	3872.5	4003.5	4037.0
40°	3445.9	3570.9	3741.5	3875.5	3915.2
42.5°	3266.2	3418.5	3601.3	3744.5	3790.2
45°	3095.6	3257.0	3455.1	3610.5	3653.1
47.5°	2915.8	3086.4	3299.7	3464.2	3513.0
50°	2723.9	2918.8	3147.4	3311.9	3357.6
52.5°	2544.1	2742.1	2982.8	3153.5	3217.4
55°	2355.2	2565.4	2812.2	2988.9	3049.9
57.5°	2178.5	2379.6	2644.6	2821.3	2897.5
60°	1977.4	2199.8	2464.9	2656.8	2717.8
62.5°	1788.5	2013.9	2288.2	2486.2	2556.3
65°	1593.5	1822.0	2105.3	2312.5	2376.5
67.5°	1410.7	1636.1	1925.6	2129.7	2212.0
70°	1209.6	1447.2	1742.8	1953.0	2023.1
72.5°	1011.5	1258.3	1560.0	1785.4	1864.6
75°	828.7	1069.4	1383.3	1602.6	1691.0
77.5°	652.0	895.8	1212.6	1438.1	1514.3
80°	475.3	731.2	1054.2	1276.6	1349.7
82.5°	313.8	581.9	901.9	1124.3	1203.5
85°	182.8	454.0	767.8	981.1	1066.4
87.5°	79.2	344.3	642.9	853.1	923.2
90°	3.0	255.9	542.3	746.5	819.6
92.5°	3.0	249.8	530.1	731.2	801.3
95°	3.0	243.7	527.1	722.1	792.2
97.5°	3.0	240.7	521.0	716.0	783.0
100°	3.0	231.6	511.9	703.8	770.8
102.5°	3.0	219.4	502.7	691.6	755.6
105°	3.0	210.2	493.6	679.4	740.4
107.5°	3.0	201.1	478.3	664.2	725.1
110°	3.0	191.9	454.0	649.0	709.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	188.9	435.7	627.6	691.6
115°	6.1	182.8	417.4	603.3	670.3
117.5°	6.1	179.8	402.2	578.9	649.0
120°	6.1	170.6	386.9	557.6	624.6
122.5°	6.1	161.5	371.7	536.2	603.3
125°	6.1	155.4	356.5	514.9	578.9
127.5°	6.1	146.2	344.3	493.6	551.5
130°	6.1	140.2	329.1	469.2	527.1
132.5°	6.1	131.0	313.8	444.8	499.7
135°	6.1	121.9	298.6	423.5	475.3
137.5°	6.1	109.7	280.3	399.1	447.9
140°	6.1	100.5	255.9	374.8	420.5
142.5°	6.1	94.5	231.6	347.3	390.0
145°	6.1	88.4	207.2	319.9	359.5
147.5°	6.1	82.3	185.9	292.5	329.1
150°	6.1	73.1	164.5	268.1	298.6
152.5°	9.1	67.0	146.2	237.7	268.1
155°	9.1	60.9	128.0	204.1	237.7
157.5°	9.1	54.8	109.7	170.6	207.2
160°	9.1	48.7	94.5	140.2	176.7
162.5°	9.1	45.7	82.3	115.8	149.3
165°	9.1	39.6	70.1	94.5	121.9
167.5°	9.1	30.5	57.9	73.1	100.5
170°	9.1	24.4	45.7	51.8	76.2
172.5°	9.1	18.3	33.5	36.6	39.6
175°	9.1	15.2	21.3	21.3	12.2
177.5°	9.1	12.2	12.2	12.2	6.1
180°	6.1	6.1	6.1	6.1	6.1

(END OF REPORT)