

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: P567655

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567655  
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-L935-CD  
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

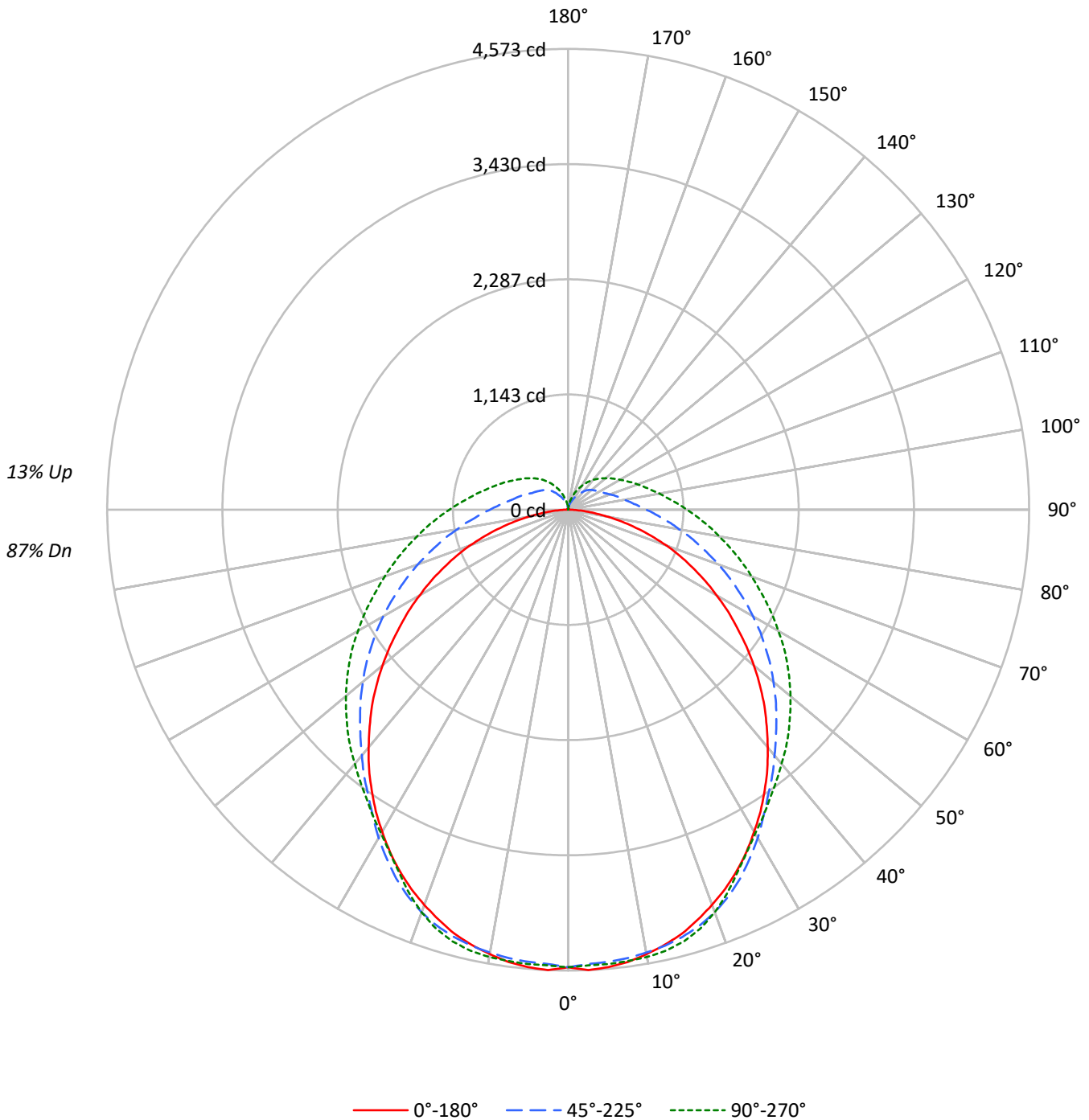
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16389.0 lumens  
Efficiency: N/A  
Efficacy: 121.6 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°	24435	24435	24435
5°	24573	23340	23105
10°	24388	22461	22038
15°	24140	21627	20963
20°	23722	20687	19593
25°	23270	19544	17987
30°	22658	18256	16645
35°	22005	16942	15644
40°	21258	15889	14834
45°	20530	14956	14135
50°	19659	14096	13430
55°	18634	13233	12741
60°	17665	12372	12020
65°	16597	11503	11359
70°	15384	10688	10762
75°	13456	9895	10270
80°	10935	9215	9852
85°	7900	8740	9613



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.3	2.6
10°-20°	1240.0	7.6
20°-30°	1846.5	11.3
30°-40°	2178.8	13.3
40°-50°	2272.2	13.9
50°-60°	2135.3	13.0
60°-70°	1803.3	11.0
70°-80°	1362.5	8.3
80°-90°	939.2	5.7
90°-100°	657.3	4.0
100°-110°	490.5	3.0
110°-120°	369.8	2.3
120°-130°	275.7	1.7
130°-140°	193.5	1.2
140°-150°	117.0	0.7
150°-160°	56.0	0.3
160°-170°	17.9	0.1
170°-180°	2.1	0.0
0°-30°	3517.8	21.5
0°-40°	5696.6	34.8
0°-60°	10104.2	61.7
0°-90°	14209.2	86.7
90°-120°	1517.5	9.3
90°-150°	2103.8	12.8
90°-180°	2180.0	13.3
0°-180°	16389.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4540	4540	4540	4540	4540	
5°	4557	4548	4504	4537	4526	432
15°	4357	4376	4387	4443	4434	1227
25°	3957	4037	4037	4001	3970	1820
35°	3398	3523	3456	3484	3493	2125
45°	2754	2890	2920	3040	3095	2120
55°	2045	2220	2390	2581	2651	1835
65°	1362	1578	1845	2087	2167	1352
75°	697	967	1339	1620	1723	743
85°	158	497	928	1234	1342	178
90°	3	353	775	1072	1178	11
95°	3	275	656	939	1036	2
105°	6	197	506	734	817	6
115°	6	170	392	584	658	6
125°	8	144	331	478	539	7
135°	8	111	275	389	436	6
145°	11	81	192	297	333	6
155°	11	53	117	189	220	5
165°	14	33	61	83	111	4
175°	14	14	17	17	8	1
180°	8	8	8	8	8	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4540.1	4540.1	4540.1	4540.1	4540.1
2.5°	4573.4	4562.3	4512.3	4540.1	4526.2
5°	4556.7	4548.4	4503.9	4537.3	4526.2
7.5°	4526.2	4523.4	4490.0	4528.9	4517.8
10°	4478.9	4487.3	4462.3	4515.1	4506.7
12.5°	4423.4	4440.0	4431.7	4490.0	4481.7
15°	4356.7	4376.1	4387.2	4442.8	4434.5
17.5°	4267.8	4303.9	4328.9	4373.3	4359.5
20°	4173.3	4223.3	4251.1	4273.3	4251.1
22.5°	4070.5	4137.2	4153.8	4142.7	4120.5
25°	3956.6	4037.2	4037.2	4001.0	3970.5
27.5°	3828.8	3928.8	3901.0	3859.3	3834.3
30°	3689.8	3809.3	3762.1	3714.8	3709.3
32.5°	3550.9	3675.9	3606.5	3595.4	3603.7
35°	3398.1	3523.1	3456.4	3484.2	3492.6
37.5°	3245.3	3370.3	3325.9	3367.5	3392.5
40°	3078.6	3211.9	3184.2	3259.2	3292.5
42.5°	2914.6	3053.6	3050.8	3148.0	3198.0
45°	2753.5	2889.6	2920.2	3039.7	3095.2
47.5°	2578.4	2717.4	2792.4	2931.3	2986.9
50°	2406.2	2556.2	2659.0	2814.6	2878.5
52.5°	2228.4	2386.7	2528.4	2700.7	2767.4
55°	2045.0	2220.0	2389.5	2581.2	2650.7
57.5°	1881.0	2058.9	2258.9	2456.2	2536.8
60°	1700.4	1897.7	2117.2	2325.6	2406.2
62.5°	1536.5	1739.3	1983.8	2203.3	2289.5
65°	1361.5	1578.2	1844.9	2086.6	2167.2
67.5°	1200.3	1422.6	1714.3	1958.8	2047.7
70°	1033.6	1269.8	1586.5	1844.9	1936.6
72.5°	861.3	1111.4	1458.7	1733.8	1828.2
75°	697.4	966.9	1339.2	1619.9	1722.7
77.5°	544.6	828.0	1230.9	1519.8	1619.9
80°	394.5	703.0	1117.0	1417.0	1519.8
82.5°	261.2	594.6	1025.3	1325.3	1433.7
85°	158.4	497.4	928.0	1233.7	1342.0
87.5°	72.2	416.8	850.2	1153.1	1258.7
90°	2.8	352.9	775.2	1072.5	1178.1
92.5°	2.8	308.4	714.1	1003.0	1105.8
95°	2.8	275.1	655.7	939.1	1036.4
97.5°	2.8	252.8	611.3	878.0	972.5
100°	2.8	230.6	566.8	822.4	919.7
102.5°	5.6	211.2	533.5	772.4	864.1
105°	5.6	197.3	505.7	733.5	816.9
107.5°	5.6	188.9	475.1	694.6	772.4
110°	5.6	180.6	441.8	655.7	733.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.6	175.0	416.8	622.4	697.4
115°	5.6	169.5	391.8	583.5	658.5
117.5°	5.6	166.7	377.9	552.9	625.2
120°	8.3	158.4	361.2	525.1	594.6
122.5°	8.3	150.0	344.5	502.9	564.0
125°	8.3	144.5	330.6	477.9	539.0
127.5°	8.3	136.1	316.7	455.7	511.2
130°	8.3	127.8	305.6	433.4	486.2
132.5°	8.3	119.5	291.7	411.2	461.2
135°	8.3	111.1	275.1	389.0	436.2
137.5°	8.3	102.8	258.4	366.8	411.2
140°	8.3	94.5	236.2	344.5	386.2
142.5°	8.3	86.1	213.9	322.3	358.4
145°	11.1	80.6	191.7	297.3	333.4
147.5°	11.1	72.2	169.5	272.3	302.9
150°	11.1	66.7	152.8	247.3	275.1
152.5°	11.1	58.3	136.1	219.5	247.3
155°	11.1	52.8	116.7	188.9	219.5
157.5°	11.1	47.2	100.0	158.4	191.7
160°	11.1	44.5	86.1	130.6	163.9
162.5°	13.9	38.9	72.2	105.6	136.1
165°	13.9	33.3	61.1	83.4	111.1
167.5°	13.9	27.8	50.0	63.9	86.1
170°	13.9	22.2	38.9	44.5	66.7
172.5°	13.9	16.7	27.8	30.6	33.3
175°	13.9	13.9	16.7	16.7	8.3
177.5°	13.9	13.9	11.1	8.3	2.8
180°	8.3	8.3	8.3	8.3	8.3

(END OF REPORT)