

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: P567665

Luminaire Tested: **8SNX-186HL-LW-UNV-L950-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567665  
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-L950-CD  
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

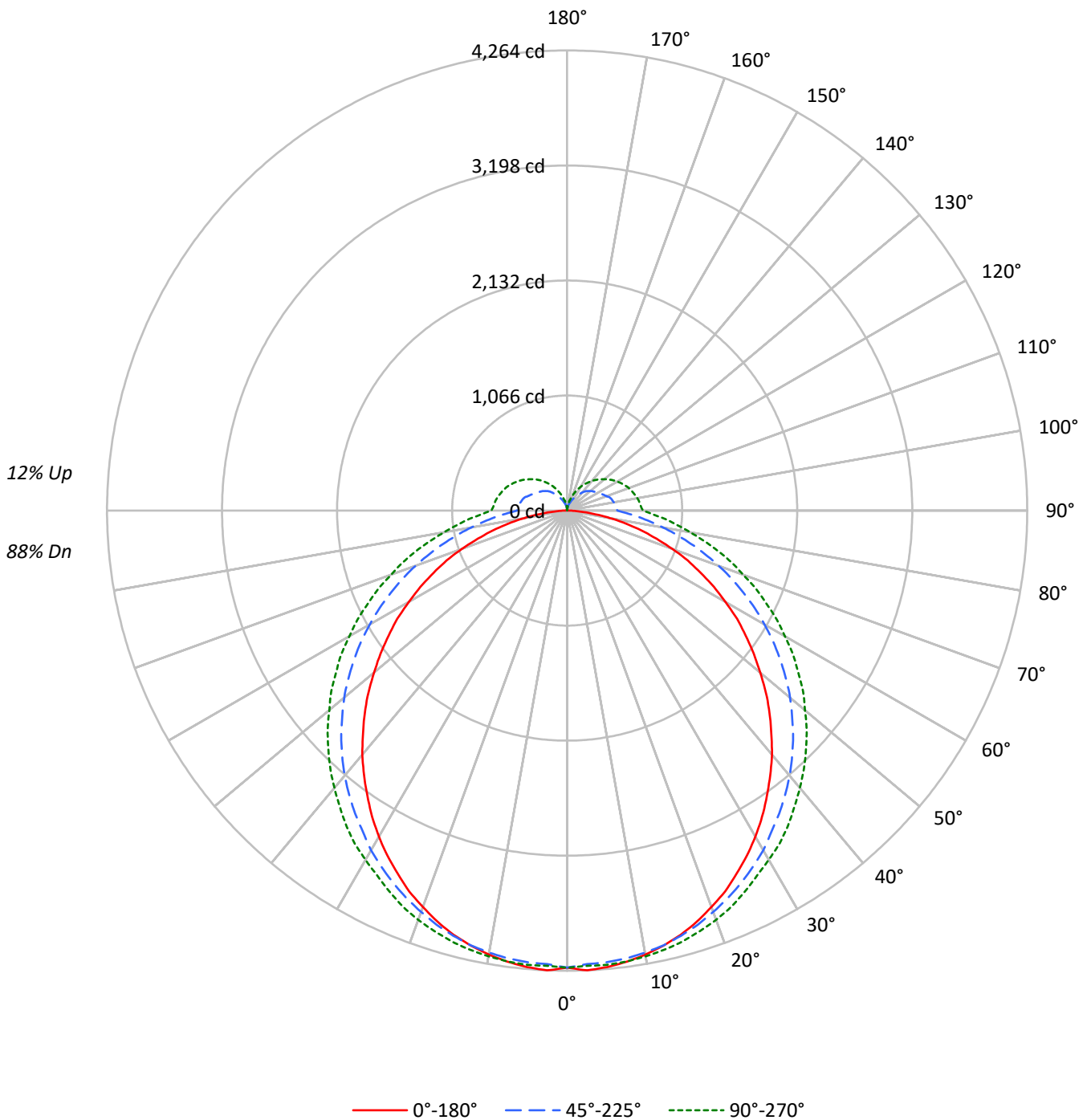
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15248.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 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°	22794	22794	22794
5°	22896	21772	21567
10°	22749	20937	20507
15°	22541	20106	19540
20°	22219	19263	18606
25°	21837	18442	17649
30°	21422	17638	16767
35°	20900	16792	15976
40°	20392	16001	15117
45°	19780	15165	14297
50°	19072	14299	13426
55°	18392	13347	12564
60°	17605	12344	11636
65°	16647	11249	10675
70°	15429	10063	9635
75°	13703	8759	8639
80°	11290	7453	7499
85°	7815	6197	6547



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.1	2.6
10°-20°	1156.6	7.6
20°-30°	1759.5	11.5
30°-40°	2139.4	14.0
40°-50°	2263.4	14.8
50°-60°	2121.7	13.9
60°-70°	1745.4	11.4
70°-80°	1207.7	7.9
80°-90°	671.6	4.4
90°-100°	442.4	2.9
100°-110°	396.7	2.6
110°-120°	328.4	2.2
120°-130°	253.9	1.7
130°-140°	179.7	1.2
140°-150°	108.4	0.7
150°-160°	52.1	0.3
160°-170°	17.0	0.1
170°-180°	2.1	0.0
0°-30°	3318.2	21.8
0°-40°	5457.6	35.8
0°-60°	9842.7	64.6
0°-90°	13467.3	88.3
90°-120°	1167.5	7.7
90°-150°	1709.4	11.2
90°-180°	1781.0	11.7
0°-180°	15248.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4235	4235	4235	4235	4235	
5°	4246	4238	4201	4235	4225	403
15°	4068	4081	4079	4134	4134	1147
25°	3713	3765	3810	3893	3896	1712
35°	3227	3314	3426	3536	3567	2020
45°	2653	2791	2961	3094	3131	2045
55°	2018	2199	2410	2562	2614	1807
65°	1366	1562	1804	1982	2037	1354
75°	710	916	1186	1374	1449	753
85°	157	389	658	841	914	180
90°	3	219	465	640	702	10
95°	3	209	452	619	679	2
105°	3	180	423	582	634	3
115°	5	157	358	517	574	4
125°	5	133	306	441	496	5
135°	5	104	256	363	407	4
145°	5	76	178	274	308	3
155°	8	52	110	175	204	3
165°	8	34	60	81	104	2
175°	8	13	18	18	10	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4235.3	4235.3	4235.3	4235.3	4235.3
2.5°	4264.0	4251.0	4206.6	4235.3	4222.2
5°	4245.7	4237.9	4201.4	4235.3	4224.9
7.5°	4217.0	4214.4	4185.7	4224.9	4214.4
10°	4177.9	4183.1	4159.6	4201.4	4193.5
12.5°	4128.2	4136.1	4125.6	4172.6	4167.4
15°	4068.2	4081.2	4078.6	4133.5	4133.5
17.5°	3995.1	4013.4	4023.8	4086.5	4086.5
20°	3908.9	3937.6	3958.5	4026.4	4036.9
22.5°	3822.7	3856.7	3888.0	3958.5	3974.2
25°	3713.1	3765.3	3809.7	3893.2	3895.9
27.5°	3606.0	3663.5	3723.5	3804.5	3812.3
30°	3488.5	3561.6	3634.7	3713.1	3736.6
32.5°	3363.2	3444.1	3525.1	3629.5	3660.8
35°	3227.4	3313.6	3425.8	3535.5	3566.8
37.5°	3091.6	3188.2	3318.8	3431.1	3459.8
40°	2953.2	3060.3	3206.5	3321.4	3355.3
42.5°	2799.2	2929.7	3086.4	3209.1	3248.3
45°	2652.9	2791.3	2961.1	3094.2	3130.8
47.5°	2498.9	2645.1	2827.9	2968.9	3010.7
50°	2334.4	2501.5	2697.3	2838.3	2877.5
52.5°	2180.3	2350.0	2556.3	2702.6	2757.4
55°	2018.4	2198.6	2410.1	2561.5	2613.8
57.5°	1867.0	2039.3	2266.5	2417.9	2483.2
60°	1694.6	1885.3	2112.4	2276.9	2329.2
62.5°	1532.8	1726.0	1961.0	2130.7	2190.8
65°	1365.6	1561.5	1804.3	1981.9	2036.7
67.5°	1209.0	1402.2	1650.3	1825.2	1895.7
70°	1036.6	1240.3	1493.6	1673.8	1733.8
72.5°	866.9	1078.4	1336.9	1530.1	1598.0
75°	710.2	916.5	1185.5	1373.5	1449.2
77.5°	558.8	767.7	1039.2	1232.5	1297.7
80°	407.3	626.7	903.5	1094.1	1156.7
82.5°	268.9	498.7	772.9	963.5	1031.4
85°	156.7	389.1	658.0	840.8	913.9
87.5°	67.9	295.1	551.0	731.1	791.2
90°	2.6	219.3	464.8	639.7	702.4
92.5°	2.6	214.1	454.3	626.7	686.7
95°	2.6	208.9	451.7	618.8	678.9
97.5°	2.6	206.3	446.5	613.6	671.1
100°	2.6	198.4	438.7	603.2	660.6
102.5°	2.6	188.0	430.8	592.7	647.6
105°	2.6	180.2	423.0	582.3	634.5
107.5°	2.6	172.3	410.0	569.2	621.5
110°	2.6	164.5	389.1	556.2	608.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	161.9	373.4	537.9	592.7
115°	5.2	156.7	357.7	517.0	574.5
117.5°	5.2	154.1	344.7	496.1	556.2
120°	5.2	146.2	331.6	477.8	535.3
122.5°	5.2	138.4	318.6	459.6	517.0
125°	5.2	133.2	305.5	441.3	496.1
127.5°	5.2	125.3	295.1	423.0	472.6
130°	5.2	120.1	282.0	402.1	451.7
132.5°	5.2	112.3	268.9	381.2	428.2
135°	5.2	104.4	255.9	363.0	407.3
137.5°	5.2	94.0	240.2	342.1	383.8
140°	5.2	86.2	219.3	321.2	360.3
142.5°	5.2	80.9	198.4	297.7	334.2
145°	5.2	75.7	177.6	274.2	308.1
147.5°	5.2	70.5	159.3	250.7	282.0
150°	5.2	62.7	141.0	229.8	255.9
152.5°	7.8	57.4	125.3	203.7	229.8
155°	7.8	52.2	109.7	174.9	203.7
157.5°	7.8	47.0	94.0	146.2	177.6
160°	7.8	41.8	80.9	120.1	151.4
162.5°	7.8	39.2	70.5	99.2	127.9
165°	7.8	33.9	60.1	80.9	104.4
167.5°	7.8	26.1	49.6	62.7	86.2
170°	7.8	20.9	39.2	44.4	65.3
172.5°	7.8	15.7	28.7	31.3	33.9
175°	7.8	13.1	18.3	18.3	10.4
177.5°	7.8	10.4	10.4	10.4	5.2
180°	5.2	5.2	5.2	5.2	5.2

(END OF REPORT)