

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: P567656

Luminaire Tested: **8SNX-186HL-LN-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567656  
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-L940-CD  
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

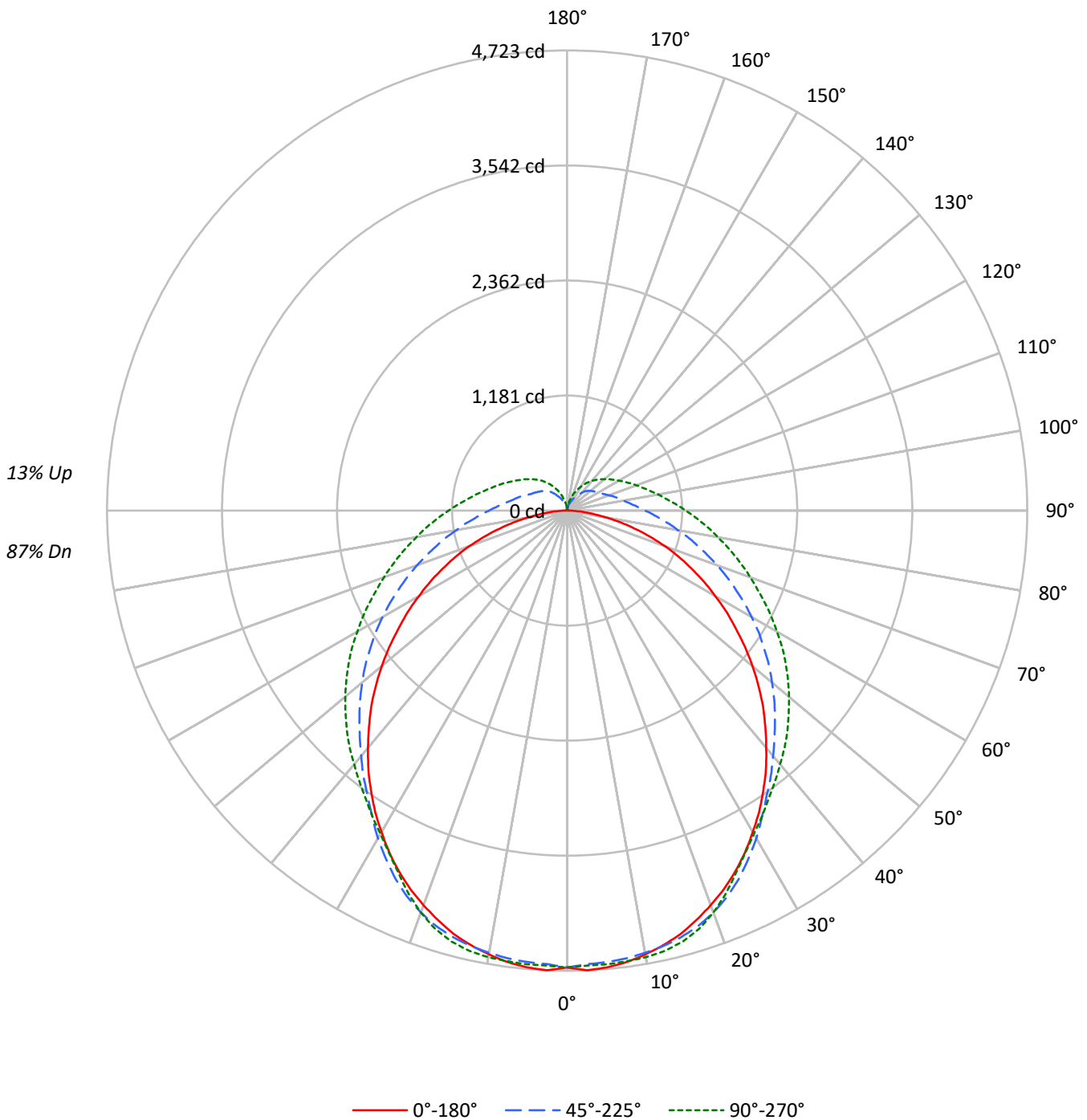
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16926.0 lumens  
Efficiency: N/A  
Efficacy: 125.6 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	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°	25235	25235	25235
5°	25378	24105	23862
10°	25187	23197	22761
15°	24931	22336	21650
20°	24499	21365	20235
25°	24032	20184	18576
30°	23400	18854	17190
35°	22726	17497	16156
40°	21954	16410	15320
45°	21202	15446	14598
50°	20302	14558	13870
55°	19245	13667	13158
60°	18245	12777	12414
65°	17141	11880	11731
70°	15888	11039	11115
75°	13898	10219	10606
80°	11295	9516	10175
85°	8159	9026	9929



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.4	2.6
10°-20°	1280.7	7.6
20°-30°	1907.0	11.3
30°-40°	2250.2	13.3
40°-50°	2346.7	13.9
50°-60°	2205.3	13.0
60°-70°	1862.4	11.0
70°-80°	1407.2	8.3
80°-90°	970.0	5.7
90°-100°	678.8	4.0
100°-110°	506.5	3.0
110°-120°	381.9	2.3
120°-130°	284.8	1.7
130°-140°	199.9	1.2
140°-150°	120.9	0.7
150°-160°	57.8	0.3
160°-170°	18.5	0.1
170°-180°	2.2	0.0
0°-30°	3633.1	21.5
0°-40°	5883.3	34.8
0°-60°	10435.3	61.7
0°-90°	14674.8	86.7
90°-120°	1567.2	9.3
90°-150°	2172.7	12.8
90°-180°	2251.0	13.3
0°-180°	16926.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4689	4689	4689	4689	4689	
5°	4706	4697	4652	4686	4674	447
15°	4499	4520	4531	4588	4580	1267
25°	4086	4169	4169	4132	4101	1880
35°	3509	3639	3570	3598	3607	2195
45°	2844	2984	3016	3139	3197	2190
55°	2112	2293	2468	2666	2738	1895
65°	1406	1630	1905	2155	2238	1396
75°	720	999	1383	1673	1779	767
85°	164	514	958	1274	1386	183
90°	3	364	801	1108	1217	11
95°	3	284	677	970	1070	2
105°	6	204	522	758	844	6
115°	6	175	405	603	680	6
125°	9	149	342	494	557	8
135°	9	115	284	402	450	7
145°	12	83	198	307	344	6
155°	12	54	120	195	227	5
165°	14	34	63	86	115	4
175°	14	14	17	17	9	1
180°	9	9	9	9	9	



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CATALOG NUMBER: 8SNX-186HL-LN-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4688.8	4688.8	4688.8	4688.8	4688.8
2.5°	4723.3	4711.8	4660.1	4688.8	4674.5
5°	4706.0	4697.4	4651.5	4685.9	4674.5
7.5°	4674.5	4671.6	4637.2	4677.3	4665.9
10°	4625.7	4634.3	4608.5	4663.0	4654.4
12.5°	4568.3	4585.5	4576.9	4637.2	4628.6
15°	4499.4	4519.5	4531.0	4588.4	4579.8
17.5°	4407.6	4444.9	4470.7	4516.6	4502.3
20°	4310.0	4361.7	4390.4	4413.3	4390.4
22.5°	4203.9	4272.7	4290.0	4278.5	4255.5
25°	4086.2	4169.4	4169.4	4132.1	4100.6
27.5°	3954.2	4057.5	4028.8	3985.8	3960.0
30°	3810.7	3934.1	3885.3	3836.6	3830.8
32.5°	3667.3	3796.4	3724.7	3713.2	3721.8
35°	3509.4	3638.6	3569.7	3598.4	3607.0
37.5°	3351.6	3480.7	3434.8	3477.9	3503.7
40°	3179.4	3317.2	3288.5	3366.0	3400.4
42.5°	3010.1	3153.6	3150.7	3251.2	3302.8
45°	2843.7	2984.3	3015.9	3139.3	3196.7
47.5°	2662.9	2806.4	2883.9	3027.4	3084.7
50°	2485.0	2640.0	2746.1	2906.8	2972.8
52.5°	2301.4	2464.9	2611.3	2789.2	2858.1
55°	2112.0	2292.8	2467.8	2665.8	2737.5
57.5°	1942.7	2126.3	2332.9	2536.7	2619.9
60°	1756.2	1959.9	2186.6	2401.8	2485.0
62.5°	1586.9	1796.3	2048.8	2275.5	2364.5
65°	1406.1	1629.9	1905.4	2155.0	2238.2
67.5°	1239.6	1469.2	1770.5	2023.0	2114.8
70°	1067.5	1311.4	1638.5	1905.4	2000.1
72.5°	889.6	1147.8	1506.5	1790.6	1888.2
75°	720.3	998.6	1383.1	1672.9	1779.1
77.5°	562.4	855.1	1271.2	1569.6	1672.9
80°	407.5	726.0	1153.6	1463.5	1569.6
82.5°	269.7	614.1	1058.9	1368.8	1480.7
85°	163.6	513.6	958.4	1274.1	1386.0
87.5°	74.6	430.4	878.1	1190.9	1299.9
90°	2.9	364.4	800.6	1107.6	1216.7
92.5°	2.9	318.5	737.5	1035.9	1142.1
95°	2.9	284.1	677.2	969.9	1070.3
97.5°	2.9	261.1	631.3	906.8	1004.3
100°	2.9	238.2	585.4	849.4	949.8
102.5°	5.7	218.1	551.0	797.7	892.4
105°	5.7	203.7	522.3	757.6	843.6
107.5°	5.7	195.1	490.7	717.4	797.7
110°	5.7	186.5	456.3	677.2	757.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.7	180.8	430.4	642.8	720.3
115°	5.7	175.0	404.6	602.6	680.1
117.5°	5.7	172.2	390.3	571.0	645.6
120°	8.6	163.6	373.0	542.3	614.1
122.5°	8.6	155.0	355.8	519.4	582.5
125°	8.6	149.2	341.5	493.6	556.7
127.5°	8.6	140.6	327.1	470.6	528.0
130°	8.6	132.0	315.6	447.6	502.2
132.5°	8.6	123.4	301.3	424.7	476.3
135°	8.6	114.8	284.1	401.7	450.5
137.5°	8.6	106.2	266.9	378.8	424.7
140°	8.6	97.6	243.9	355.8	398.9
142.5°	8.6	89.0	221.0	332.9	370.2
145°	11.5	83.2	198.0	307.0	344.3
147.5°	11.5	74.6	175.0	281.2	312.8
150°	11.5	68.9	157.8	255.4	284.1
152.5°	11.5	60.3	140.6	226.7	255.4
155°	11.5	54.5	120.5	195.1	226.7
157.5°	11.5	48.8	103.3	163.6	198.0
160°	11.5	45.9	89.0	134.9	169.3
162.5°	14.3	40.2	74.6	109.0	140.6
165°	14.3	34.4	63.1	86.1	114.8
167.5°	14.3	28.7	51.7	66.0	89.0
170°	14.3	23.0	40.2	45.9	68.9
172.5°	14.3	17.2	28.7	31.6	34.4
175°	14.3	14.3	17.2	17.2	8.6
177.5°	14.3	14.3	11.5	8.6	2.9
180°	8.6	8.6	8.6	8.6	8.6

(END OF REPORT)