

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: P567658

Luminaire Tested: **8SNX-186HL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567658
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-L830-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

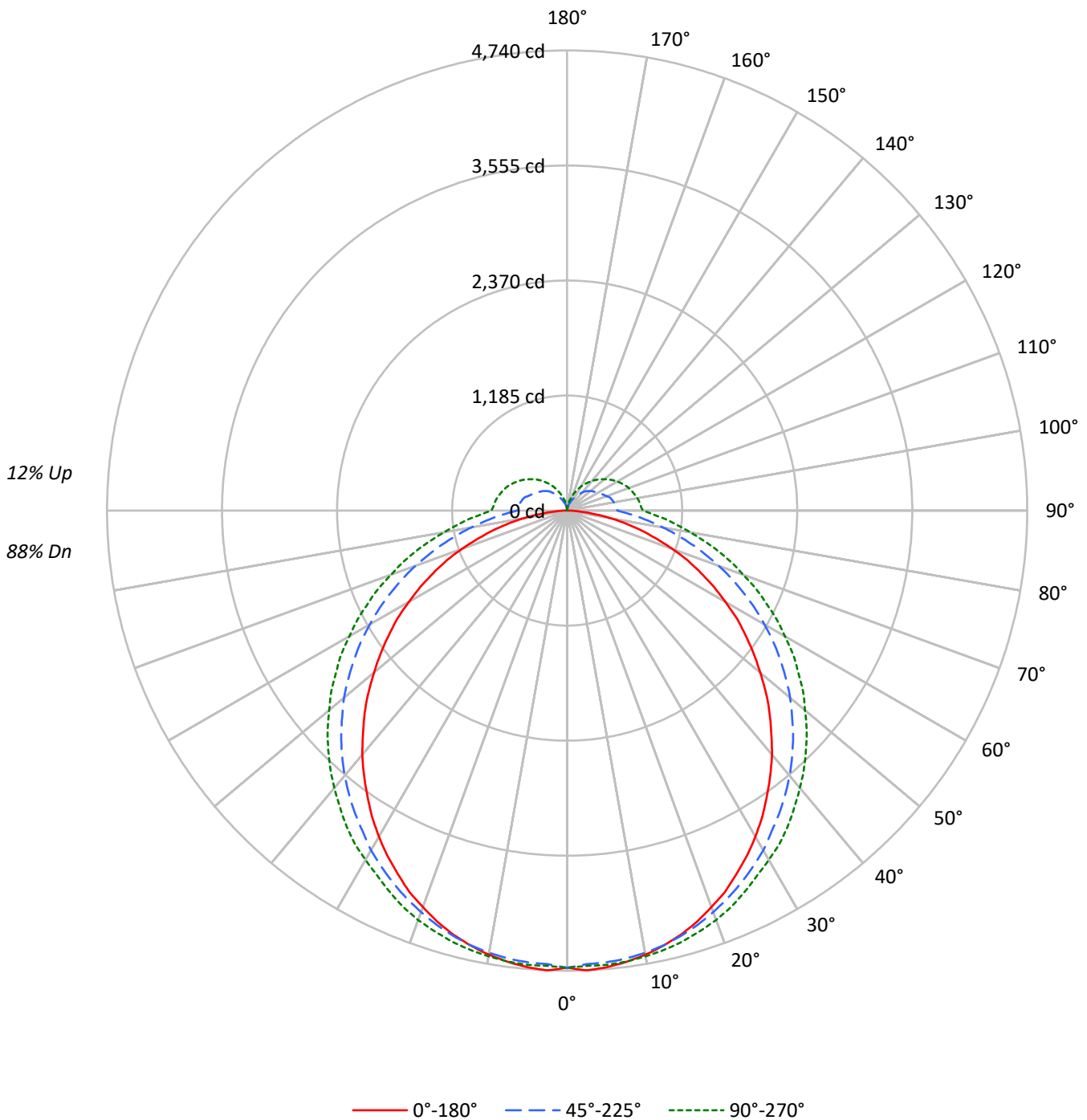
Lumens per Lamp: N/A
Luminaire Lumens: 16952.0 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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

TEST NUMBER: P567658

CATALOG NUMBER: 8SNX-186HL-LW-UNV-L830-CD

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°	25341	25341	25341
5°	25455	24205	23977
10°	25290	23277	22799
15°	25060	22353	21724
20°	24702	21416	20685
25°	24278	20503	19621
30°	23816	19609	18641
35°	23235	18669	17762
40°	22671	17789	16806
45°	21990	16860	15895
50°	21204	15898	14926
55°	20447	14839	13968
60°	19573	13723	12935
65°	18508	12506	11868
70°	17154	11187	10712
75°	15235	9738	9605
80°	12554	8286	8337
85°	8688	6889	7278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.0	2.6
10°-20°	1285.9	7.6
20°-30°	1956.1	11.5
30°-40°	2378.5	14.0
40°-50°	2516.4	14.8
50°-60°	2358.8	13.9
60°-70°	1940.5	11.4
70°-80°	1342.6	7.9
80°-90°	746.6	4.4
90°-100°	491.8	2.9
100°-110°	441.1	2.6
110°-120°	365.1	2.2
120°-130°	282.2	1.7
130°-140°	199.8	1.2
140°-150°	120.5	0.7
150°-160°	57.9	0.3
160°-170°	18.9	0.1
170°-180°	2.3	0.0
0°-30°	3689.0	21.8
0°-40°	6067.5	35.8
0°-60°	10942.6	64.6
0°-90°	14972.3	88.3
90°-120°	1298.0	7.7
90°-150°	1900.5	11.2
90°-180°	1980.0	11.7
0°-180°	16952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4709	4709	4709	4709	4709	
5°	4720	4712	4671	4709	4697	448
15°	4523	4537	4534	4595	4595	1275
25°	4128	4186	4235	4328	4331	1903
35°	3588	3684	3809	3931	3966	2246
45°	2949	3103	3292	3440	3481	2273
55°	2244	2444	2679	2848	2906	2009
65°	1518	1736	2006	2203	2264	1505
75°	790	1019	1318	1527	1611	838
85°	174	432	732	935	1016	200
90°	3	244	517	711	781	12
95°	3	232	502	688	755	2
105°	3	200	470	647	705	3
115°	6	174	398	575	639	5
125°	6	148	340	491	552	5
135°	6	116	284	404	453	4
145°	6	84	197	305	342	4
155°	9	58	122	194	226	4
165°	9	38	67	90	116	2
175°	9	14	20	20	12	1
180°	6	6	6	6	6	



TEST NUMBER: P567658

CATALOG NUMBER: 8SNX-186HL-LW-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4708.6	4708.6	4708.6	4708.6	4708.6
2.5°	4740.5	4726.0	4676.7	4708.6	4694.1
5°	4720.2	4711.5	4670.9	4708.6	4697.0
7.5°	4688.3	4685.4	4653.5	4697.0	4685.4
10°	4644.7	4650.6	4624.4	4670.9	4662.2
12.5°	4589.6	4598.3	4586.7	4638.9	4633.1
15°	4522.8	4537.3	4534.4	4595.4	4595.4
17.5°	4441.5	4461.9	4473.5	4543.1	4543.1
20°	4345.7	4377.7	4400.9	4476.4	4488.0
22.5°	4249.9	4287.7	4322.5	4400.9	4418.3
25°	4128.0	4186.1	4235.4	4328.3	4331.2
27.5°	4009.0	4072.9	4139.6	4229.6	4238.3
30°	3878.4	3959.6	4040.9	4128.0	4154.1
32.5°	3739.0	3829.0	3919.0	4035.1	4070.0
35°	3588.1	3683.9	3808.7	3930.6	3965.5
37.5°	3437.1	3544.5	3689.7	3814.5	3846.4
40°	3283.3	3402.3	3564.8	3692.6	3730.3
42.5°	3112.0	3257.1	3431.3	3567.7	3611.3
45°	2949.4	3103.3	3292.0	3440.0	3480.7
47.5°	2778.1	2940.7	3143.9	3300.7	3347.1
50°	2595.3	2781.0	2998.8	3155.5	3199.1
52.5°	2424.0	2612.7	2842.0	3004.6	3065.5
55°	2244.0	2444.3	2679.4	2847.8	2905.9
57.5°	2075.6	2267.2	2519.8	2688.1	2760.7
60°	1884.0	2095.9	2348.5	2531.4	2589.4
62.5°	1704.0	1918.9	2180.1	2368.8	2435.6
65°	1518.3	1736.0	2005.9	2203.4	2264.3
67.5°	1344.1	1558.9	1834.7	2029.2	2107.6
70°	1152.5	1378.9	1660.5	1860.8	1927.6
72.5°	963.8	1198.9	1486.3	1701.1	1776.6
75°	789.6	1018.9	1317.9	1527.0	1611.1
77.5°	621.2	853.5	1155.4	1370.2	1442.8
80°	452.9	696.7	1004.4	1216.3	1286.0
82.5°	299.0	554.5	859.3	1071.2	1146.7
85°	174.2	432.5	731.5	934.8	1016.0
87.5°	75.5	328.0	612.5	812.8	879.6
90°	2.9	243.8	516.7	711.2	780.9
92.5°	2.9	238.0	505.1	696.7	763.5
95°	2.9	232.2	502.2	688.0	754.8
97.5°	2.9	229.3	496.4	682.2	746.1
100°	2.9	220.6	487.7	670.6	734.5
102.5°	2.9	209.0	479.0	659.0	719.9
105°	2.9	200.3	470.3	647.4	705.4
107.5°	2.9	191.6	455.8	632.8	690.9
110°	2.9	182.9	432.5	618.3	676.4



TEST NUMBER: P567658

CATALOG NUMBER: 8SNX-186HL-LW-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	180.0	415.1	598.0	659.0
115°	5.8	174.2	397.7	574.8	638.7
117.5°	5.8	171.3	383.2	551.6	618.3
120°	5.8	162.6	368.7	531.2	595.1
122.5°	5.8	153.9	354.2	510.9	574.8
125°	5.8	148.1	339.6	490.6	551.6
127.5°	5.8	139.3	328.0	470.3	525.4
130°	5.8	133.5	313.5	447.1	502.2
132.5°	5.8	124.8	299.0	423.8	476.1
135°	5.8	116.1	284.5	403.5	452.9
137.5°	5.8	104.5	267.1	380.3	426.7
140°	5.8	95.8	243.8	357.1	400.6
142.5°	5.8	90.0	220.6	330.9	371.6
145°	5.8	84.2	197.4	304.8	342.5
147.5°	5.8	78.4	177.1	278.7	313.5
150°	5.8	69.7	156.8	255.5	284.5
152.5°	8.7	63.9	139.3	226.4	255.5
155°	8.7	58.1	121.9	194.5	226.4
157.5°	8.7	52.3	104.5	162.6	197.4
160°	8.7	46.4	90.0	133.5	168.4
162.5°	8.7	43.5	78.4	110.3	142.2
165°	8.7	37.7	66.8	90.0	116.1
167.5°	8.7	29.0	55.2	69.7	95.8
170°	8.7	23.2	43.5	49.4	72.6
172.5°	8.7	17.4	31.9	34.8	37.7
175°	8.7	14.5	20.3	20.3	11.6
177.5°	8.7	11.6	11.6	11.6	5.8
180°	5.8	5.8	5.8	5.8	5.8

(END OF REPORT)