

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: P567642

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-186HL-LC-UNV-L830-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

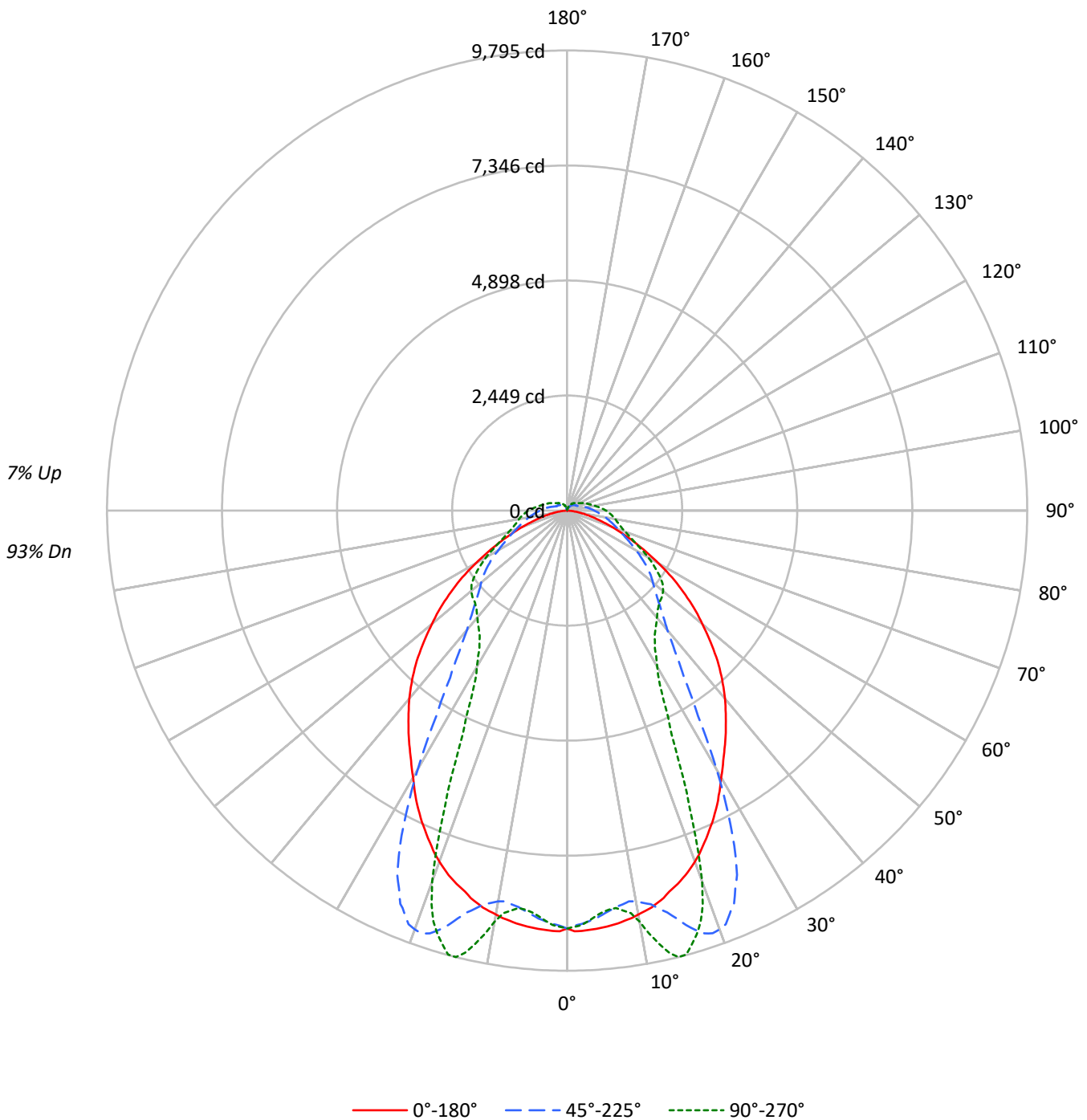
Lumens per Lamp: N/A
Luminaire Lumens: 19770.0 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47875	47875	47875
5°	48020	44737	43822
10°	47532	42527	43456
15°	46513	44284	46262
20°	45194	46168	38718
25°	43014	41426	23806
30°	40278	30862	17229
35°	38058	21305	14535
40°	36078	16539	13395
45°	33759	14084	12668
50°	30703	12642	12436
55°	27477	11435	11506
60°	23299	9895	9952
65°	18950	8620	8306
70°	14870	7748	7314
75°	11532	7204	6820
80°	8116	6823	6751
85°	4519	6510	6703



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.7	4.2
10°-20°	2529.3	12.8
20°-30°	3405.7	17.2
30°-40°	3223.2	16.3
40°-50°	2844.9	14.4
50°-60°	2310.7	11.7
60°-70°	1571.5	7.9
70°-80°	1011.2	5.1
80°-90°	672.4	3.4
90°-100°	462.1	2.3
100°-110°	310.2	1.6
110°-120°	218.8	1.1
120°-130°	156.3	0.8
130°-140°	110.3	0.6
140°-150°	68.5	0.3
150°-160°	33.4	0.2
160°-170°	11.7	0.1
170°-180°	2.0	0.0
0°-30°	6762.8	34.2
0°-40°	9986.0	50.5
0°-60°	15141.6	76.6
0°-90°	18396.8	93.1
90°-120°	991.1	5.0
90°-150°	1326.2	6.7
90°-180°	1373.0	6.9
0°-180°	19770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8896	8896	8896	8896	8896	
5°	8905	8823	8633	8627	8585	845
15°	8394	8340	8983	9777	9786	2367
25°	7314	8672	8558	6215	5255	3356
35°	5877	8246	4347	3348	3245	3678
45°	4528	5548	2750	2717	2774	3476
55°	3016	3281	2065	2306	2394	2693
65°	1554	1769	1382	1536	1585	1561
75°	598	836	975	1093	1144	650
85°	91	356	691	875	936	119
90°	3	248	576	776	827	5
95°	3	190	486	658	703	2
105°	6	133	320	450	504	6
115°	6	115	235	335	377	7
125°	9	97	202	254	272	8
135°	12	76	166	211	223	9
145°	12	54	118	163	178	8
155°	15	33	72	109	124	7
165°	15	21	39	54	66	5
175°	18	18	18	18	15	2
180°	15	15	15	15	15	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8895.5	8895.5	8895.5	8895.5	8895.5
1°	8955.9	8928.7	8838.2	8886.5	8862.3
2°	8952.9	8907.6	8805.0	8859.3	8829.1
3°	8937.8	8889.5	8756.7	8789.9	8744.6
4°	8922.7	8865.3	8705.4	8705.4	8654.0
5°	8904.6	8823.1	8632.9	8626.9	8584.6
6°	8883.5	8789.9	8569.5	8563.5	8539.3
7°	8853.3	8732.5	8500.1	8542.4	8524.3
8°	8817.0	8678.2	8463.9	8569.5	8596.7
9°	8783.8	8611.8	8421.6	8654.0	8675.2
10°	8729.5	8551.4	8448.8	8823.1	8886.5
11°	8684.2	8500.1	8509.2	8989.1	9179.3
12°	8639.0	8445.8	8566.5	9197.4	9429.8
13°	8563.5	8403.5	8693.3	9423.8	9662.2
14°	8497.1	8370.3	8817.0	9653.2	9795.0
15°	8394.5	8340.1	8983.1	9776.9	9786.0
16°	8325.0	8319.0	9176.2	9786.0	9616.9
17°	8246.5	8309.9	9333.2	9629.0	9429.8
18°	8159.0	8328.0	9463.0	9432.8	9203.4
19°	8059.4	8346.2	9517.3	9161.2	8865.3
20°	7950.7	8373.3	9487.2	8877.4	8400.5
21°	7842.1	8409.5	9429.8	8578.6	7790.8
22.5°	7639.8	8497.1	9158.1	7739.4	6782.6
23°	7582.5	8515.2	9094.7	7476.8	6520.0
24°	7440.6	8590.7	8805.0	6864.1	5825.7
25°	7313.8	8672.2	8557.5	6215.1	5255.2
26°	7172.0	8732.5	8183.2	5617.4	4905.1
27°	7033.1	8768.7	7757.6	5152.6	4512.7
28°	6873.1	8808.0	7295.7	4751.1	4216.8
29°	6722.2	8814.0	6839.9	4431.2	3984.4
30°	6559.2	8783.8	6360.0	4174.6	3839.5
32.5°	6203.0	8617.8	5185.8	3685.6	3477.3
35°	5877.0	8246.5	4346.6	3347.5	3244.9
37.5°	5548.0	7661.0	3758.0	3136.2	3103.0
40°	5225.0	6966.7	3314.3	2967.2	2973.2
42.5°	4883.9	6251.3	3009.4	2828.3	2855.5
45°	4527.8	5548.0	2749.9	2716.7	2774.0
47.5°	4132.3	4905.1	2544.6	2644.2	2731.7
50°	3758.0	4268.2	2384.6	2574.8	2665.3
52.5°	3401.9	3746.0	2239.7	2457.1	2562.7
55°	3015.5	3281.1	2064.7	2306.1	2393.7
57.5°	2647.2	2861.5	1880.5	2119.0	2197.5
60°	2242.7	2448.0	1693.4	1916.7	1992.2
62.5°	1877.5	2094.8	1533.4	1714.5	1774.9
65°	1554.5	1768.8	1382.5	1536.4	1584.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1267.8	1497.2	1258.7	1388.5	1433.8
70°	999.1	1240.6	1150.0	1267.8	1316.1
72.5°	781.8	1026.3	1059.5	1168.2	1216.5
75°	597.7	836.1	975.0	1092.7	1144.0
77.5°	443.7	682.2	896.5	1032.3	1086.7
80°	292.8	543.3	827.1	978.0	1041.4
82.5°	184.1	437.7	757.6	923.7	990.1
85°	90.6	356.2	691.2	875.4	935.7
87.5°	30.2	295.8	630.9	827.1	878.4
90°	3.0	247.5	576.5	775.8	827.1
92.5°	3.0	214.3	531.3	715.4	766.7
95°	3.0	190.2	486.0	658.0	703.3
97.5°	3.0	172.1	443.7	597.7	646.0
100°	3.0	153.9	398.4	540.3	591.6
102.5°	6.0	141.9	359.2	492.0	546.3
105°	6.0	132.8	320.0	449.8	504.1
107.5°	6.0	126.8	286.8	416.6	467.9
110°	6.0	120.7	262.6	386.4	440.7
112.5°	6.0	117.7	247.5	359.2	410.5
115°	6.0	114.7	235.4	335.1	377.3
117.5°	9.1	111.7	226.4	310.9	344.1
120°	9.1	105.6	220.4	289.8	316.9
122.5°	9.1	99.6	211.3	271.7	292.8
125°	9.1	96.6	202.2	253.6	271.7
127.5°	9.1	90.6	193.2	238.5	256.6
130°	12.1	84.5	184.1	226.4	241.5
132.5°	12.1	78.5	175.1	220.4	232.4
135°	12.1	75.5	166.0	211.3	223.4
137.5°	12.1	69.4	157.0	202.2	214.3
140°	12.1	63.4	144.9	190.2	202.2
142.5°	12.1	60.4	132.8	178.1	190.2
145°	12.1	54.3	117.7	163.0	178.1
147.5°	15.1	51.3	105.6	150.9	163.0
150°	15.1	45.3	93.6	138.9	150.9
152.5°	15.1	39.2	81.5	123.8	135.8
155°	15.1	33.2	72.4	108.7	123.8
157.5°	15.1	30.2	63.4	90.6	108.7
160°	15.1	27.2	54.3	78.5	93.6
162.5°	15.1	24.1	48.3	66.4	81.5
165°	15.1	21.1	39.2	54.3	66.4
167.5°	18.1	21.1	33.2	42.3	54.3
170°	18.1	21.1	27.2	33.2	42.3
172.5°	18.1	18.1	21.1	24.1	27.2
175°	18.1	18.1	18.1	18.1	15.1
177.5°	18.1	18.1	18.1	15.1	15.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	15.1	15.1	15.1	15.1	15.1

(END OF REPORT)