

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: P567648

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567648
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-L940-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

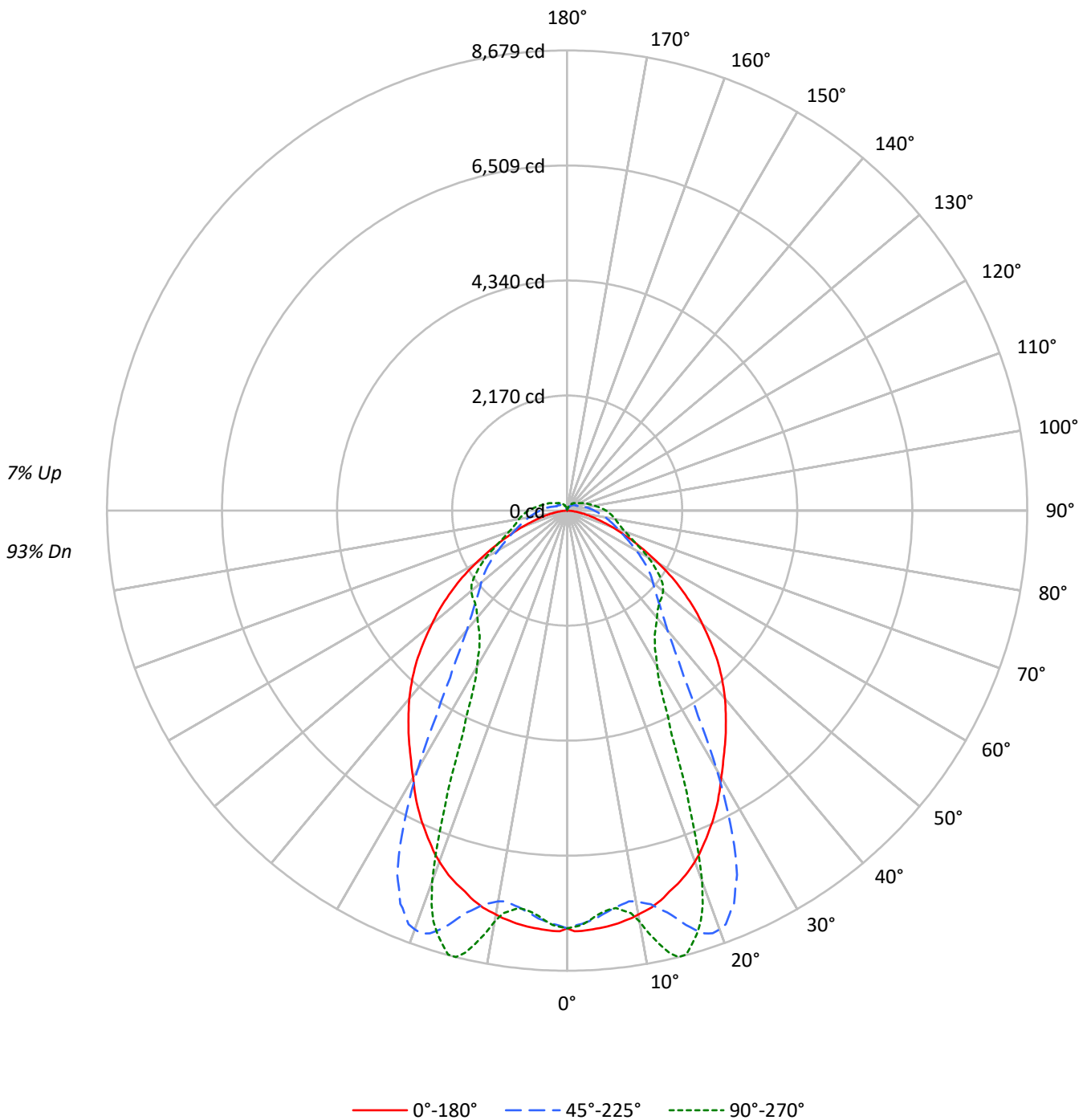
Lumens per Lamp: N/A
Luminaire Lumens: 17517.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P567648

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

Luminous Intensity Polar Plot





TEST NUMBER: P567648

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

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	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°	42420	42420	42420
5°	42547	39638	38828
10°	42115	37681	38504
15°	41212	39237	40990
20°	40044	40906	34306
25°	38112	36705	21093
30°	35688	27345	15266
35°	33721	18878	12878
40°	31967	14654	11869
45°	29912	12478	11225
50°	27204	11201	11019
55°	24346	10131	10194
60°	20645	8768	8818
65°	16791	7637	7359
70°	13177	6865	6480
75°	10218	6383	6043
80°	7190	6045	5982
85°	4000	5769	5939



TEST NUMBER: P567648

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.4	4.2
10°-20°	2241.1	12.8
20°-30°	3017.6	17.2
30°-40°	2855.9	16.3
40°-50°	2520.7	14.4
50°-60°	2047.4	11.7
60°-70°	1392.5	7.9
70°-80°	896.0	5.1
80°-90°	595.8	3.4
90°-100°	409.4	2.3
100°-110°	274.8	1.6
110°-120°	193.8	1.1
120°-130°	138.5	0.8
130°-140°	97.7	0.6
140°-150°	60.7	0.3
150°-160°	29.6	0.2
160°-170°	10.4	0.1
170°-180°	1.8	0.0
0°-30°	5992.1	34.2
0°-40°	8848.0	50.5
0°-60°	13416.1	76.6
0°-90°	16300.3	93.1
90°-120°	878.1	5.0
90°-150°	1175.0	6.7
90°-180°	1217.0	6.9
0°-180°	17517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7882	7882	7882	7882	7882	
5°	7890	7818	7649	7644	7606	748
15°	7438	7390	7959	8663	8671	2097
25°	6480	7684	7582	5507	4656	2974
35°	5207	7307	3851	2966	2875	3259
45°	4012	4916	2436	2407	2458	3080
55°	2672	2907	1829	2043	2121	2386
65°	1377	1567	1225	1361	1404	1383
75°	530	741	864	968	1014	576
85°	80	316	612	776	829	105
90°	3	219	511	687	733	5
95°	3	168	431	583	623	2
105°	5	118	284	398	447	5
115°	5	102	209	297	334	6
125°	8	86	179	225	241	7
135°	11	67	147	187	198	8
145°	11	48	104	144	158	7
155°	13	29	64	96	110	6
165°	13	19	35	48	59	4
175°	16	16	16	16	13	2
180°	13	13	13	13	13	



TEST NUMBER: P567648

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7881.8	7881.8	7881.8	7881.8	7881.8
1°	7935.3	7911.2	7831.0	7873.8	7852.4
2°	7932.6	7892.5	7801.6	7849.7	7822.9
3°	7919.2	7876.4	7758.8	7788.2	7748.1
4°	7905.9	7855.0	7713.3	7713.3	7667.8
5°	7889.8	7817.6	7649.1	7643.8	7606.3
6°	7871.1	7788.2	7592.9	7587.6	7566.2
7°	7844.3	7737.4	7531.4	7568.9	7552.8
8°	7812.2	7689.2	7499.3	7592.9	7617.0
9°	7782.8	7630.4	7461.9	7667.8	7686.5
10°	7734.7	7576.9	7486.0	7817.6	7873.8
11°	7694.6	7531.4	7539.4	7964.7	8133.2
12°	7654.5	7483.3	7590.3	8149.2	8355.2
13°	7587.6	7445.8	7702.6	8349.8	8561.1
14°	7528.8	7416.4	7812.2	8553.1	8678.8
15°	7437.8	7389.7	7959.3	8662.7	8670.8
16°	7376.3	7371.0	8130.5	8670.8	8521.0
17°	7306.8	7362.9	8269.6	8531.7	8355.2
18°	7229.2	7379.0	8384.6	8357.9	8154.6
19°	7140.9	7395.0	8432.7	8117.1	7855.0
20°	7044.7	7419.1	8406.0	7865.7	7443.2
21°	6948.4	7451.2	8355.2	7601.0	6902.9
22.5°	6769.2	7528.8	8114.5	6857.4	6009.6
23°	6718.4	7544.8	8058.3	6624.8	5776.9
24°	6592.7	7611.7	7801.6	6081.8	5161.8
25°	6480.3	7683.9	7582.2	5506.8	4656.3
26°	6354.6	7737.4	7250.6	4977.3	4346.1
27°	6231.6	7769.5	6873.5	4565.4	3998.4
28°	6089.9	7804.2	6464.3	4209.7	3736.3
29°	5956.1	7809.6	6060.4	3926.2	3530.4
30°	5811.7	7782.8	5635.2	3698.9	3402.0
32.5°	5496.1	7635.7	4594.8	3265.6	3081.0
35°	5207.3	7306.8	3851.3	2966.0	2875.1
37.5°	4915.8	6787.9	3329.8	2778.8	2749.4
40°	4629.6	6172.8	2936.6	2629.0	2634.4
42.5°	4327.4	5538.9	2666.5	2506.0	2530.1
45°	4011.8	4915.8	2436.5	2407.1	2457.9
47.5°	3661.4	4346.1	2254.6	2342.9	2420.4
50°	3329.8	3781.8	2112.9	2281.4	2361.6
52.5°	3014.2	3319.1	1984.5	2177.1	2270.7
55°	2671.8	2907.2	1829.4	2043.3	2120.9
57.5°	2345.5	2535.4	1666.2	1877.5	1947.0
60°	1987.2	2169.0	1500.4	1698.3	1765.2
62.5°	1663.5	1856.1	1358.7	1519.1	1572.6
65°	1377.4	1567.3	1224.9	1361.3	1404.1



TEST NUMBER: P567648

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1123.3	1326.6	1115.3	1230.3	1270.4
70°	885.3	1099.2	1019.0	1123.3	1166.1
72.5°	692.7	909.3	938.8	1035.0	1077.8
75°	529.6	740.8	863.9	968.2	1013.6
77.5°	393.2	604.4	794.3	914.7	962.8
80°	259.4	481.4	732.8	866.5	922.7
82.5°	163.1	387.8	671.3	818.4	877.2
85°	80.2	315.6	612.5	775.6	829.1
87.5°	26.7	262.1	559.0	732.8	778.3
90°	2.7	219.3	510.8	687.3	732.8
92.5°	2.7	189.9	470.7	633.9	679.3
95°	2.7	168.5	430.6	583.0	623.2
97.5°	2.7	152.4	393.2	529.6	572.3
100°	2.7	136.4	353.0	478.7	524.2
102.5°	5.3	125.7	318.3	435.9	484.1
105°	5.3	117.7	283.5	398.5	446.6
107.5°	5.3	112.3	254.1	369.1	414.5
110°	5.3	107.0	232.7	342.3	390.5
112.5°	5.3	104.3	219.3	318.3	363.7
115°	5.3	101.6	208.6	296.9	334.3
117.5°	8.0	99.0	200.6	275.5	304.9
120°	8.0	93.6	195.2	256.8	280.8
122.5°	8.0	88.3	187.2	240.7	259.4
125°	8.0	85.6	179.2	224.7	240.7
127.5°	8.0	80.2	171.2	211.3	227.3
130°	10.7	74.9	163.1	200.6	214.0
132.5°	10.7	69.5	155.1	195.2	205.9
135°	10.7	66.9	147.1	187.2	197.9
137.5°	10.7	61.5	139.1	179.2	189.9
140°	10.7	56.2	128.4	168.5	179.2
142.5°	10.7	53.5	117.7	157.8	168.5
145°	10.7	48.1	104.3	144.4	157.8
147.5°	13.4	45.5	93.6	133.7	144.4
150°	13.4	40.1	82.9	123.0	133.7
152.5°	13.4	34.8	72.2	109.7	120.4
155°	13.4	29.4	64.2	96.3	109.7
157.5°	13.4	26.7	56.2	80.2	96.3
160°	13.4	24.1	48.1	69.5	82.9
162.5°	13.4	21.4	42.8	58.8	72.2
165°	13.4	18.7	34.8	48.1	58.8
167.5°	16.0	18.7	29.4	37.4	48.1
170°	16.0	18.7	24.1	29.4	37.4
172.5°	16.0	16.0	18.7	21.4	24.1
175°	16.0	16.0	16.0	16.0	13.4
177.5°	16.0	16.0	16.0	13.4	13.4



TEST NUMBER: P567648

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	13.4	13.4	13.4	13.4	13.4

(END OF REPORT)