

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: P567598

Luminaire Tested: **8SNX-180HL-LC-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567598
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-180HL-LC-UNV-L930-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

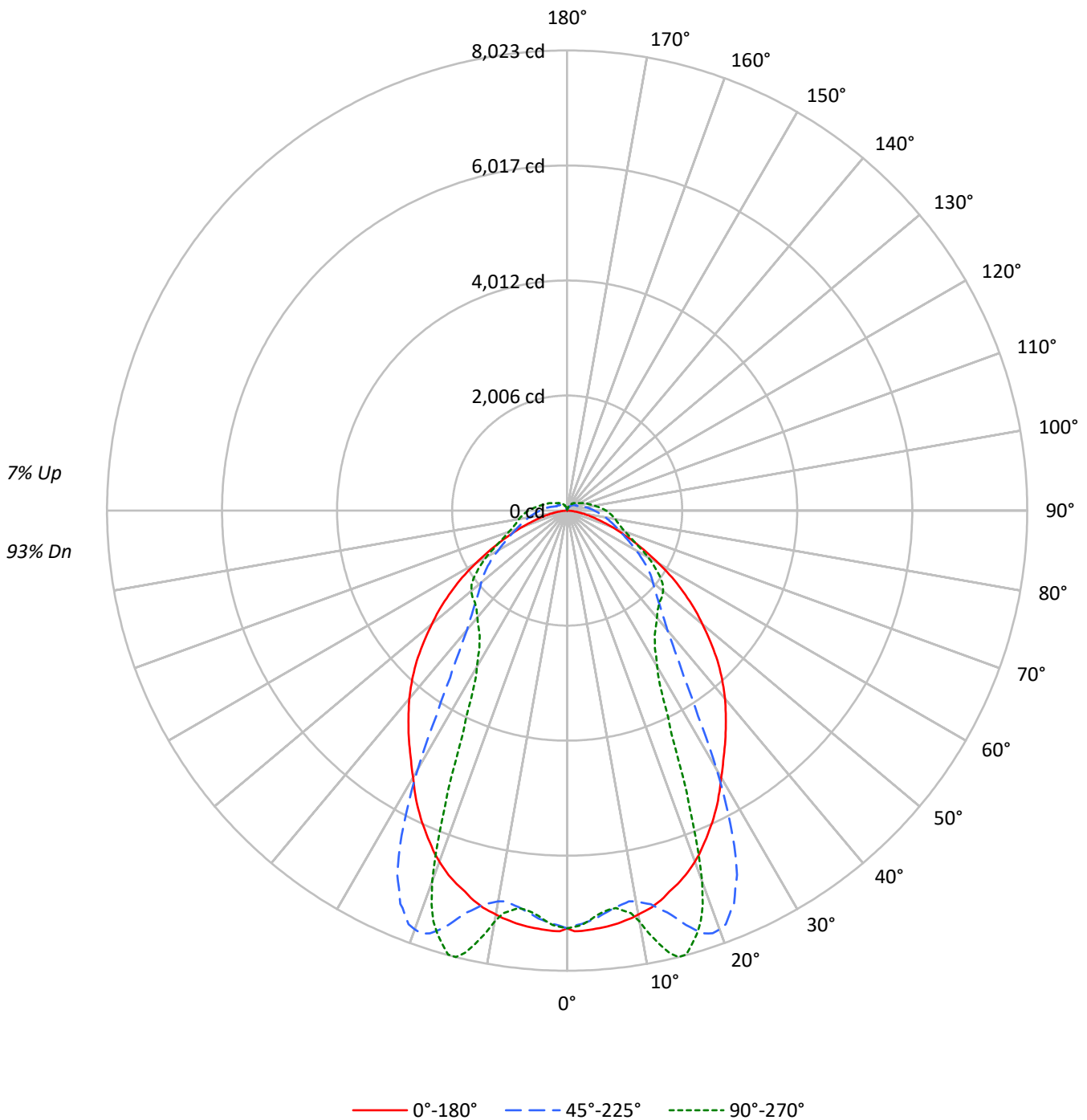
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16193.0 lumens
Efficiency: N/A
Efficacy: 125.7 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): 128.8
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	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°	39213	39213	39213
5°	39332	36643	35894
10°	38932	34832	35593
15°	38097	36271	37892
20°	37017	37814	31713
25°	35231	33931	19499
30°	32990	25278	14112
35°	31172	17451	11905
40°	29551	13547	10972
45°	27650	11535	10376
50°	25148	10355	10186
55°	22506	9366	9424
60°	19085	8105	8152
65°	15522	7060	6803
70°	12181	6346	5990
75°	9444	5901	5586
80°	6647	5588	5530
85°	3701	5332	5490



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.0	4.2
10°-20°	2071.7	12.8
20°-30°	2789.5	17.2
30°-40°	2640.0	16.3
40°-50°	2330.2	14.4
50°-60°	1892.6	11.7
60°-70°	1287.2	7.9
70°-80°	828.2	5.1
80°-90°	550.7	3.4
90°-100°	378.5	2.3
100°-110°	254.1	1.6
110°-120°	179.2	1.1
120°-130°	128.0	0.8
130°-140°	90.3	0.6
140°-150°	56.1	0.3
150°-160°	27.4	0.2
160°-170°	9.6	0.1
170°-180°	1.7	0.0
0°-30°	5539.2	34.2
0°-40°	8179.2	50.5
0°-60°	12402.1	76.6
0°-90°	15068.2	93.1
90°-120°	811.7	5.0
90°-150°	1086.2	6.7
90°-180°	1125.0	6.9
0°-180°	16193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7286	7286	7286	7286	7286	
5°	7294	7227	7071	7066	7031	692
15°	6876	6831	7358	8008	8015	1938
25°	5990	7103	7009	5091	4304	2749
35°	4814	6754	3560	2742	2658	3012
45°	3708	4544	2252	2225	2272	2847
55°	2470	2688	1691	1889	1961	2206
65°	1273	1449	1132	1258	1298	1278
75°	490	685	799	895	937	533
85°	74	292	566	717	766	97
90°	2	203	472	635	677	4
95°	2	156	398	539	576	2
105°	5	109	262	368	413	5
115°	5	94	193	274	309	6
125°	7	79	166	208	222	7
135°	10	62	136	173	183	8
145°	10	44	96	134	146	7
155°	12	27	59	89	101	6
165°	12	17	32	44	54	4
175°	15	15	15	15	12	1
180°	12	12	12	12	12	



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CATALOG NUMBER: 8SNX-180HL-LC-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7286.1	7286.1	7286.1	7286.1	7286.1
1°	7335.5	7313.2	7239.1	7278.6	7258.9
2°	7333.0	7295.9	7211.9	7256.4	7231.7
3°	7320.7	7281.1	7172.3	7199.5	7162.4
4°	7308.3	7261.3	7130.3	7130.3	7088.3
5°	7293.5	7226.7	7071.0	7066.0	7031.4
6°	7276.2	7199.5	7019.0	7014.1	6994.3
7°	7251.4	7152.5	6962.2	6996.8	6982.0
8°	7221.8	7108.0	6932.5	7019.0	7041.3
9°	7194.6	7053.7	6897.9	7088.3	7105.6
10°	7150.1	7004.2	6920.1	7226.7	7278.6
11°	7113.0	6962.2	6969.6	7362.7	7518.5
12°	7075.9	6917.7	7016.6	7533.3	7723.7
13°	7014.1	6883.1	7120.4	7718.7	7914.0
14°	6959.7	6855.9	7221.8	7906.6	8022.8
15°	6875.6	6831.1	7357.8	8008.0	8015.4
16°	6818.8	6813.8	7516.0	8015.4	7876.9
17°	6754.5	6806.4	7644.5	7886.8	7723.7
18°	6682.8	6821.2	7750.9	7726.1	7538.2
19°	6601.2	6836.1	7795.4	7503.6	7261.3
20°	6512.2	6858.3	7770.6	7271.2	6880.6
21°	6423.2	6888.0	7723.7	7026.5	6381.2
22.5°	6257.5	6959.7	7501.1	6339.1	5555.4
23°	6210.6	6974.5	7449.2	6124.0	5340.3
24°	6094.4	7036.3	7211.9	5622.2	4771.7
25°	5990.5	7103.1	7009.1	5090.6	4304.4
26°	5874.3	7152.5	6702.6	4601.1	4017.6
27°	5760.6	7182.2	6354.0	4220.3	3696.2
28°	5629.6	7214.4	5975.7	3891.5	3453.9
29°	5506.0	7219.3	5602.4	3629.4	3263.5
30°	5372.4	7194.6	5209.3	3419.3	3144.8
32.5°	5080.7	7058.6	4247.5	3018.8	2848.2
35°	4813.7	6754.5	3560.2	2741.9	2657.8
37.5°	4544.2	6274.9	3078.1	2568.8	2541.6
40°	4279.7	5706.2	2714.7	2430.3	2435.3
42.5°	4000.3	5120.3	2464.9	2316.6	2338.9
45°	3708.5	4544.2	2252.3	2225.1	2272.1
47.5°	3384.7	4017.6	2084.2	2165.8	2237.5
50°	3078.1	3495.9	1953.2	2108.9	2183.1
52.5°	2786.4	3068.2	1834.5	2012.5	2099.0
55°	2469.9	2687.5	1691.1	1888.9	1960.6
57.5°	2168.3	2343.8	1540.3	1735.6	1799.9
60°	1837.0	2005.1	1387.0	1570.0	1631.8
62.5°	1537.8	1715.8	1256.0	1404.3	1453.7
65°	1273.3	1448.8	1132.3	1258.4	1298.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1038.4	1226.3	1031.0	1137.3	1174.4
70°	818.4	1016.1	942.0	1038.4	1078.0
72.5°	640.3	840.6	867.8	956.8	996.4
75°	489.5	684.8	798.6	895.0	937.0
77.5°	363.4	558.8	734.3	845.5	890.1
80°	239.8	445.0	677.4	801.0	853.0
82.5°	150.8	358.5	620.6	756.5	810.9
85°	74.2	291.7	566.2	717.0	766.4
87.5°	24.7	242.3	516.7	677.4	719.5
90°	2.5	202.7	472.2	635.4	677.4
92.5°	2.5	175.5	435.1	585.9	628.0
95°	2.5	155.8	398.1	539.0	576.1
97.5°	2.5	140.9	363.4	489.5	529.1
100°	2.5	126.1	326.4	442.6	484.6
102.5°	4.9	116.2	294.2	403.0	447.5
105°	4.9	108.8	262.1	368.4	412.9
107.5°	4.9	103.8	234.9	341.2	383.2
110°	4.9	98.9	215.1	316.5	361.0
112.5°	4.9	96.4	202.7	294.2	336.2
115°	4.9	93.9	192.8	274.4	309.0
117.5°	7.4	91.5	185.4	254.7	281.8
120°	7.4	86.5	180.5	237.3	259.6
122.5°	7.4	81.6	173.1	222.5	239.8
125°	7.4	79.1	165.6	207.7	222.5
127.5°	7.4	74.2	158.2	195.3	210.2
130°	9.9	69.2	150.8	185.4	197.8
132.5°	9.9	64.3	143.4	180.5	190.4
135°	9.9	61.8	136.0	173.1	183.0
137.5°	9.9	56.9	128.6	165.6	175.5
140°	9.9	51.9	118.7	155.8	165.6
142.5°	9.9	49.4	108.8	145.9	155.8
145°	9.9	44.5	96.4	133.5	145.9
147.5°	12.4	42.0	86.5	123.6	133.5
150°	12.4	37.1	76.6	113.7	123.6
152.5°	12.4	32.1	66.8	101.4	111.3
155°	12.4	27.2	59.3	89.0	101.4
157.5°	12.4	24.7	51.9	74.2	89.0
160°	12.4	22.3	44.5	64.3	76.6
162.5°	12.4	19.8	39.6	54.4	66.8
165°	12.4	17.3	32.1	44.5	54.4
167.5°	14.8	17.3	27.2	34.6	44.5
170°	14.8	17.3	22.3	27.2	34.6
172.5°	14.8	14.8	17.3	19.8	22.3
175°	14.8	14.8	14.8	14.8	12.4
177.5°	14.8	14.8	14.8	12.4	12.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	12.4	12.4	12.4	12.4	12.4

(END OF REPORT)