

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: P567543

Luminaire Tested: **8SNX-174HL-FDL-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567543
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-174HL-FDL-UNV-L935-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

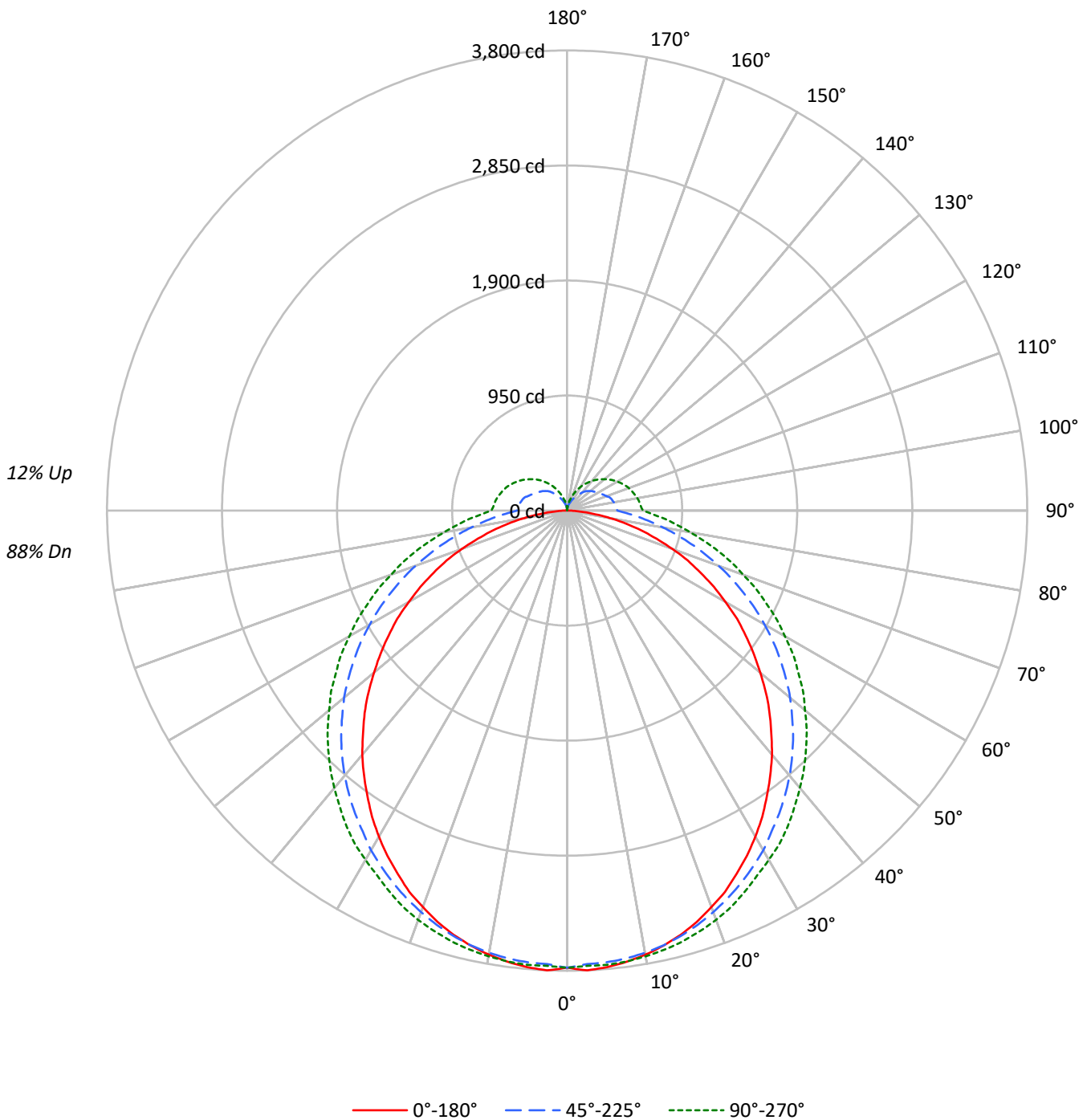
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13590.0 lumens
Efficiency: N/A
Efficacy: 109.2 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: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 124.4
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: P567543
CATALOG NUMBER: 8SNX-174HL-FDL-UNV-L935-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567543

CATALOG NUMBER: 8SNX-174HL-FDL-UNV-L935-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	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°	20316	20316	20316
5°	20434	20017	20051
10°	20331	19835	19842
15°	20174	19615	19649
20°	19916	19351	19428
25°	19604	19082	19132
30°	19264	18812	18880
35°	18830	18487	18704
40°	18412	18220	18432
45°	17904	17910	18204
50°	17312	17582	17915
55°	16756	17174	17656
60°	16112	16741	17339
65°	15328	16245	17030
70°	14333	15704	16679
75°	12912	15115	16558
80°	10928	14773	16427
85°	8136	15159	17314



TEST NUMBER: P567543

CATALOG NUMBER: 8SNX-174HL-FDL-UNV-L935-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.4	2.6
10°-20°	1030.8	7.6
20°-30°	1568.2	11.5
30°-40°	1906.8	14.0
40°-50°	2017.3	14.8
50°-60°	1891.0	13.9
60°-70°	1555.6	11.4
70°-80°	1076.4	7.9
80°-90°	598.5	4.4
90°-100°	394.3	2.9
100°-110°	353.6	2.6
110°-120°	292.7	2.2
120°-130°	226.3	1.7
130°-140°	160.2	1.2
140°-150°	96.6	0.7
150°-160°	46.4	0.3
160°-170°	15.2	0.1
170°-180°	1.9	0.0
0°-30°	2957.4	21.8
0°-40°	4864.2	35.8
0°-60°	8772.4	64.6
0°-90°	12003.0	88.3
90°-120°	1040.6	7.7
90°-150°	1523.6	11.2
90°-180°	1587.0	11.7
0°-180°	13590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3775	3775	3775	3775	3775	
5°	3784	3777	3744	3775	3766	359
15°	3626	3638	3635	3684	3684	1022
25°	3309	3356	3395	3470	3472	1525
35°	2876	2953	3053	3151	3179	1800
45°	2364	2488	2639	2758	2790	1822
55°	1799	1960	2148	2283	2330	1610
65°	1217	1392	1608	1766	1815	1207
75°	633	817	1057	1224	1292	671
85°	140	347	586	749	814	161
90°	2	196	414	570	626	9
95°	2	186	403	552	605	2
105°	2	161	377	519	566	2
115°	5	140	319	461	512	4
125°	5	119	272	393	442	4
135°	5	93	228	324	363	4
145°	5	68	158	244	275	3
155°	7	46	98	156	182	3
165°	7	30	54	72	93	2
175°	7	12	16	16	9	1
180°	5	5	5	5	5	



TEST NUMBER: P567543

CATALOG NUMBER: 8SNX-174HL-FDL-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3774.8	3774.8	3774.8	3774.8	3774.8
2.5°	3800.4	3788.7	3749.2	3774.8	3763.1
5°	3784.1	3777.1	3744.5	3774.8	3765.5
7.5°	3758.5	3756.2	3730.6	3765.5	3756.2
10°	3723.6	3728.2	3707.3	3744.5	3737.5
12.5°	3679.4	3686.3	3677.0	3718.9	3714.3
15°	3625.8	3637.5	3635.1	3684.0	3684.0
17.5°	3560.7	3577.0	3586.3	3642.1	3642.1
20°	3483.9	3509.5	3528.1	3588.6	3597.9
22.5°	3407.1	3437.3	3465.3	3528.1	3542.1
25°	3309.3	3355.9	3395.4	3469.9	3472.2
27.5°	3213.9	3265.1	3318.6	3390.8	3397.8
30°	3109.2	3174.3	3239.5	3309.3	3330.3
32.5°	2997.5	3069.6	3141.8	3234.9	3262.8
35°	2876.5	2953.3	3053.3	3151.1	3179.0
37.5°	2755.4	2841.6	2957.9	3058.0	3083.6
40°	2632.1	2727.5	2857.8	2960.2	2990.5
42.5°	2494.8	2611.2	2750.8	2860.2	2895.1
45°	2364.5	2487.8	2639.1	2757.8	2790.4
47.5°	2227.2	2357.5	2520.4	2646.1	2683.3
50°	2080.5	2229.5	2404.0	2529.7	2564.6
52.5°	1943.2	2094.5	2278.4	2408.7	2457.6
55°	1799.0	1959.5	2148.0	2283.0	2329.6
57.5°	1664.0	1817.6	2020.0	2155.0	2213.2
60°	1510.4	1680.3	1882.7	2029.3	2075.9
62.5°	1366.1	1538.3	1747.8	1899.0	1952.6
65°	1217.1	1391.7	1608.1	1766.4	1815.2
67.5°	1077.5	1249.7	1470.8	1626.7	1689.6
70°	923.9	1105.4	1331.2	1491.8	1545.3
72.5°	772.6	961.1	1191.5	1363.8	1424.3
75°	633.0	816.9	1056.6	1224.1	1291.6
77.5°	498.0	684.2	926.2	1098.5	1156.6
80°	363.0	558.5	805.2	975.1	1031.0
82.5°	239.7	444.5	688.9	858.8	919.3
85°	139.6	346.8	586.5	749.4	814.5
87.5°	60.5	263.0	491.0	651.6	705.2
90°	2.3	195.5	414.2	570.2	626.0
92.5°	2.3	190.8	404.9	558.5	612.1
95°	2.3	186.2	402.6	551.6	605.1
97.5°	2.3	183.9	398.0	546.9	598.1
100°	2.3	176.9	391.0	537.6	588.8
102.5°	2.3	167.6	384.0	528.3	577.2
105°	2.3	160.6	377.0	519.0	565.5
107.5°	2.3	153.6	365.4	507.3	553.9
110°	2.3	146.6	346.8	495.7	542.2



TEST NUMBER: P567543

CATALOG NUMBER: 8SNX-174HL-FDL-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	144.3	332.8	479.4	528.3
115°	4.7	139.6	318.8	460.8	512.0
117.5°	4.7	137.3	307.2	442.2	495.7
120°	4.7	130.3	295.6	425.9	477.1
122.5°	4.7	123.3	283.9	409.6	460.8
125°	4.7	118.7	272.3	393.3	442.2
127.5°	4.7	111.7	263.0	377.0	421.2
130°	4.7	107.1	251.3	358.4	402.6
132.5°	4.7	100.1	239.7	339.8	381.7
135°	4.7	93.1	228.1	323.5	363.0
137.5°	4.7	83.8	214.1	304.9	342.1
140°	4.7	76.8	195.5	286.3	321.2
142.5°	4.7	72.1	176.9	265.3	297.9
145°	4.7	67.5	158.3	244.4	274.6
147.5°	4.7	62.8	142.0	223.4	251.3
150°	4.7	55.9	125.7	204.8	228.1
152.5°	7.0	51.2	111.7	181.5	204.8
155°	7.0	46.5	97.7	155.9	181.5
157.5°	7.0	41.9	83.8	130.3	158.3
160°	7.0	37.2	72.1	107.1	135.0
162.5°	7.0	34.9	62.8	88.4	114.0
165°	7.0	30.3	53.5	72.1	93.1
167.5°	7.0	23.3	44.2	55.9	76.8
170°	7.0	18.6	34.9	39.6	58.2
172.5°	7.0	14.0	25.6	27.9	30.3
175°	7.0	11.6	16.3	16.3	9.3
177.5°	7.0	9.3	9.3	9.3	4.7
180°	4.7	4.7	4.7	4.7	4.7

(END OF REPORT)