

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: P567541

Luminaire Tested: **8SNX-174HL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567541
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-L850-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

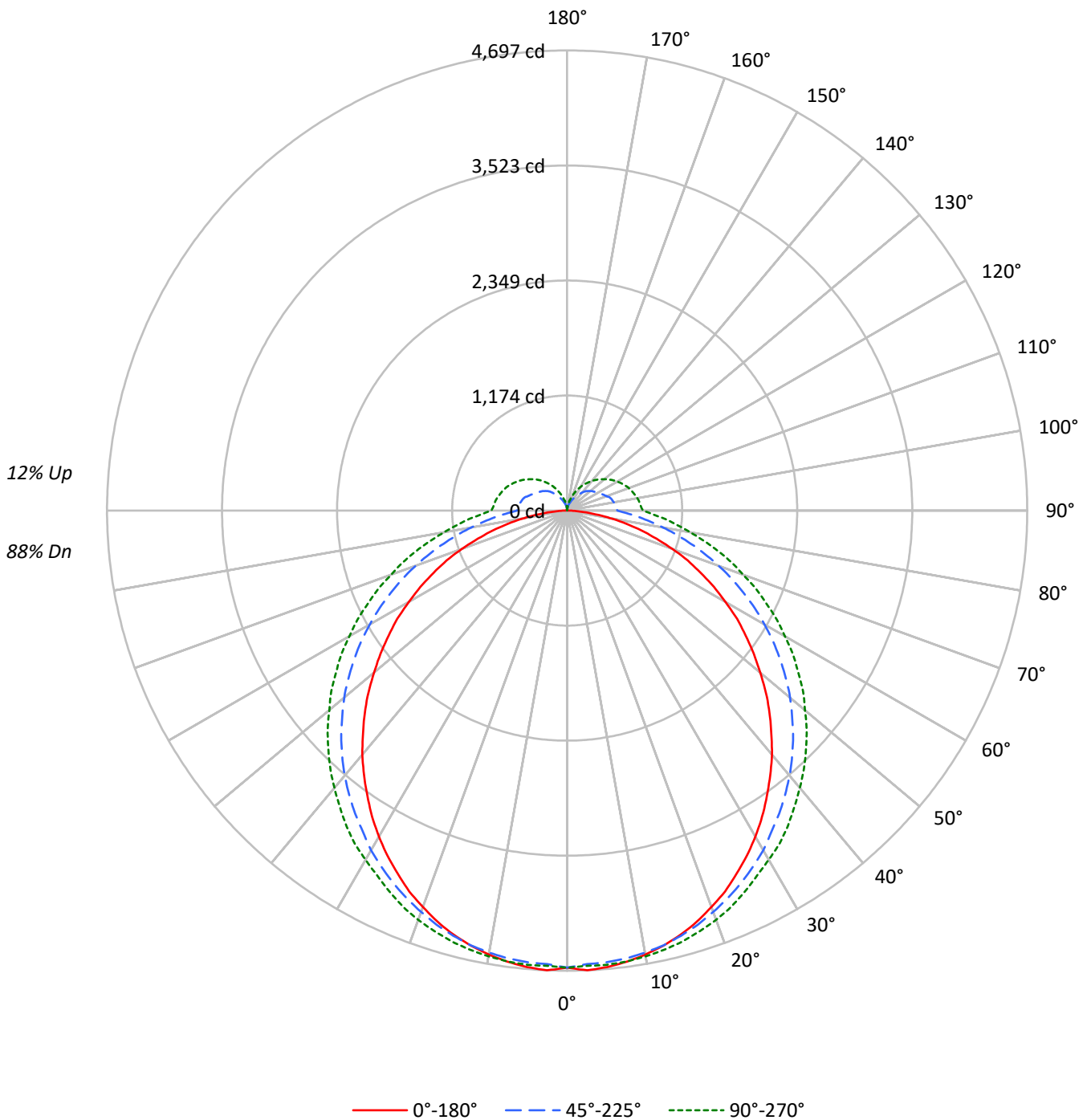
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16796.0 lumens
Efficiency: N/A
Efficacy: 135.0 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

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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	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°	25108	25108	25108
5°	25255	24739	24781
10°	25127	24515	24524
15°	24934	24243	24285
20°	24614	23916	24011
25°	24229	23584	23646
30°	23809	23250	23333
35°	23272	22849	23116
40°	22755	22518	22781
45°	22127	22135	22498
50°	21397	21730	22141
55°	20708	21226	21821
60°	19913	20691	21430
65°	18945	20078	21048
70°	17715	19408	20613
75°	15957	18680	20465
80°	13508	18259	20302
85°	10059	18733	21399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.9	2.6
10°-20°	1274.0	7.6
20°-30°	1938.1	11.5
30°-40°	2356.6	14.0
40°-50°	2493.2	14.8
50°-60°	2337.1	13.9
60°-70°	1922.6	11.4
70°-80°	1330.3	7.9
80°-90°	739.7	4.4
90°-100°	487.3	2.9
100°-110°	437.0	2.6
110°-120°	361.7	2.2
120°-130°	279.6	1.7
130°-140°	198.0	1.2
140°-150°	119.4	0.7
150°-160°	57.3	0.3
160°-170°	18.8	0.1
170°-180°	2.3	0.0
0°-30°	3655.1	21.8
0°-40°	6011.7	35.8
0°-60°	10841.9	64.6
0°-90°	14834.6	88.3
90°-120°	1286.1	7.7
90°-150°	1883.1	11.2
90°-180°	1961.0	11.7
0°-180°	16796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4665	4665	4665	4665	4665	
5°	4677	4668	4628	4665	4654	444
15°	4481	4496	4493	4553	4553	1263
25°	4090	4148	4196	4288	4291	1885
35°	3555	3650	3774	3894	3929	2225
45°	2922	3075	3262	3408	3449	2252
55°	2223	2422	2655	2822	2879	1990
65°	1504	1720	1988	2183	2244	1491
75°	782	1010	1306	1513	1596	830
85°	173	429	725	926	1007	199
90°	3	242	512	705	774	11
95°	3	230	498	682	748	2
105°	3	198	466	641	699	3
115°	6	173	394	570	633	5
125°	6	147	336	486	546	5
135°	6	115	282	400	449	4
145°	6	83	196	302	339	4
155°	9	58	121	193	224	4
165°	9	37	66	89	115	2
175°	9	14	20	20	12	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4665.3	4665.3	4665.3	4665.3	4665.3
2.5°	4696.9	4682.5	4633.6	4665.3	4650.9
5°	4676.8	4668.2	4627.9	4665.3	4653.8
7.5°	4645.1	4642.3	4610.6	4653.8	4642.3
10°	4602.0	4607.8	4581.9	4627.9	4619.3
12.5°	4547.4	4556.0	4544.5	4596.2	4590.5
15°	4481.2	4495.6	4492.7	4553.1	4553.1
17.5°	4400.7	4420.8	4432.3	4501.3	4501.3
20°	4305.7	4337.4	4360.4	4435.2	4446.7
22.5°	4210.8	4248.2	4282.7	4360.4	4377.7
25°	4090.0	4147.6	4196.5	4288.5	4291.4
27.5°	3972.1	4035.4	4101.5	4190.7	4199.3
30°	3842.7	3923.2	4003.7	4090.0	4115.9
32.5°	3704.6	3793.8	3882.9	3998.0	4032.5
35°	3555.0	3650.0	3773.6	3894.4	3929.0
37.5°	3405.5	3511.9	3655.7	3779.4	3811.0
40°	3253.0	3371.0	3532.0	3658.6	3696.0
42.5°	3083.3	3227.2	3399.7	3534.9	3578.1
45°	2922.3	3074.7	3261.7	3408.4	3448.6
47.5°	2752.6	2913.6	3115.0	3270.3	3316.3
50°	2571.4	2755.4	2971.2	3126.5	3169.6
52.5°	2401.7	2588.6	2815.8	2976.9	3037.3
55°	2223.3	2421.8	2654.8	2821.6	2879.1
57.5°	2056.5	2246.4	2496.6	2663.4	2735.3
60°	1866.7	2076.7	2326.9	2508.1	2565.6
62.5°	1688.4	1901.2	2160.1	2347.0	2413.2
65°	1504.3	1720.0	1987.5	2183.1	2243.5
67.5°	1331.7	1544.5	1817.8	2010.5	2088.2
70°	1141.9	1366.2	1645.2	1843.7	1909.8
72.5°	954.9	1187.9	1472.6	1685.5	1760.3
75°	782.3	1009.6	1305.8	1512.9	1596.3
77.5°	615.5	845.6	1144.7	1357.6	1429.5
80°	448.7	690.3	995.2	1205.1	1274.2
82.5°	296.3	549.4	851.4	1061.3	1136.1
85°	172.6	428.6	724.8	926.2	1006.7
87.5°	74.8	325.0	606.9	805.4	871.5
90°	2.9	241.6	512.0	704.7	773.7
92.5°	2.9	235.9	500.5	690.3	756.5
95°	2.9	230.1	497.6	681.7	747.8
97.5°	2.9	227.2	491.8	675.9	739.2
100°	2.9	218.6	483.2	664.4	727.7
102.5°	2.9	207.1	474.6	652.9	713.3
105°	2.9	198.5	466.0	641.4	698.9
107.5°	2.9	189.8	451.6	627.0	684.5
110°	2.9	181.2	428.6	612.6	670.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	178.3	411.3	592.5	652.9
115°	5.8	172.6	394.0	569.5	632.8
117.5°	5.8	169.7	379.7	546.5	612.6
120°	5.8	161.1	365.3	526.4	589.6
122.5°	5.8	152.4	350.9	506.2	569.5
125°	5.8	146.7	336.5	486.1	546.5
127.5°	5.8	138.1	325.0	466.0	520.6
130°	5.8	132.3	310.6	442.9	497.6
132.5°	5.8	123.7	296.3	419.9	471.7
135°	5.8	115.1	281.9	399.8	448.7
137.5°	5.8	103.5	264.6	376.8	422.8
140°	5.8	94.9	241.6	353.8	396.9
142.5°	5.8	89.2	218.6	327.9	368.2
145°	5.8	83.4	195.6	302.0	339.4
147.5°	5.8	77.7	175.5	276.1	310.6
150°	5.8	69.0	155.3	253.1	281.9
152.5°	8.6	63.3	138.1	224.3	253.1
155°	8.6	57.5	120.8	192.7	224.3
157.5°	8.6	51.8	103.5	161.1	195.6
160°	8.6	46.0	89.2	132.3	166.8
162.5°	8.6	43.1	77.7	109.3	140.9
165°	8.6	37.4	66.2	89.2	115.1
167.5°	8.6	28.8	54.6	69.0	94.9
170°	8.6	23.0	43.1	48.9	71.9
172.5°	8.6	17.3	31.6	34.5	37.4
175°	8.6	14.4	20.1	20.1	11.5
177.5°	8.6	11.5	11.5	11.5	5.8
180°	5.8	5.8	5.8	5.8	5.8

(END OF REPORT)