

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: P567565

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567565
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-LW-UNV-L850-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

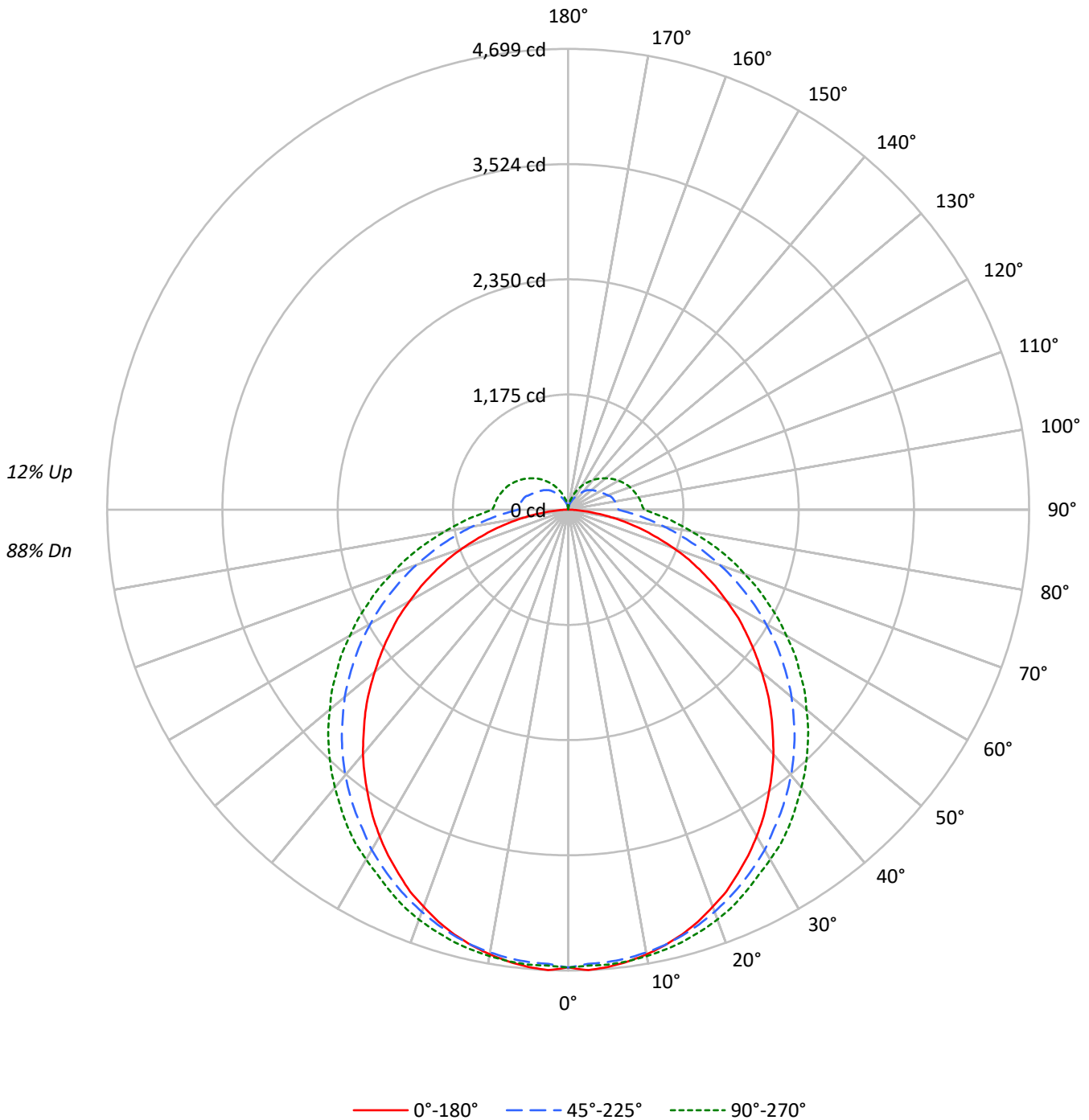
Lumens per Lamp: N/A
Luminaire Lumens: 16805.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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°	25122	25122	25122
5°	25234	23995	23769
10°	25071	23075	22601
15°	24843	22159	21535
20°	24488	21230	20506
25°	24067	20326	19451
30°	23609	19439	18479
35°	23034	18507	17608
40°	22474	17634	16661
45°	21800	16713	15757
50°	21019	15760	14797
55°	20270	14710	13847
60°	19404	13604	12823
65°	18347	12398	11765
70°	17005	11090	10619
75°	15103	9653	9522
80°	12443	8214	8265
85°	8613	6830	7215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.1	2.6
10°-20°	1274.7	7.6
20°-30°	1939.2	11.5
30°-40°	2357.9	14.0
40°-50°	2494.5	14.8
50°-60°	2338.3	13.9
60°-70°	1923.7	11.4
70°-80°	1331.0	7.9
80°-90°	740.1	4.4
90°-100°	487.6	2.9
100°-110°	437.2	2.6
110°-120°	361.9	2.2
120°-130°	279.8	1.7
130°-140°	198.1	1.2
140°-150°	119.5	0.7
150°-160°	57.4	0.3
160°-170°	18.8	0.1
170°-180°	2.3	0.0
0°-30°	3657.0	21.8
0°-40°	6014.9	35.8
0°-60°	10847.7	64.6
0°-90°	14842.5	88.3
90°-120°	1286.7	7.7
90°-150°	1884.1	11.2
90°-180°	1963.0	11.7
0°-180°	16805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4668	4668	4668	4668	4668	
5°	4679	4671	4630	4668	4656	444
15°	4484	4498	4495	4556	4556	1264
25°	4092	4150	4199	4291	4294	1886
35°	3557	3652	3776	3896	3931	2226
45°	2924	3076	3263	3410	3450	2254
55°	2224	2423	2656	2823	2881	1991
65°	1505	1721	1989	2184	2245	1492
75°	783	1010	1306	1514	1597	830
85°	173	429	725	927	1007	199
90°	3	242	512	705	774	11
95°	3	230	498	682	748	2
105°	3	199	466	642	699	3
115°	6	173	394	570	633	5
125°	6	147	337	486	547	5
135°	6	115	282	400	449	4
145°	6	84	196	302	340	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°	4667.8	4667.8	4667.8	4667.8	4667.8
2.5°	4699.4	4685.0	4636.1	4667.8	4653.4
5°	4679.3	4670.7	4630.4	4667.8	4656.3
7.5°	4647.6	4644.8	4613.1	4656.3	4644.8
10°	4604.5	4610.2	4584.3	4630.4	4621.7
12.5°	4549.8	4558.4	4546.9	4598.7	4593.0
15°	4483.6	4498.0	4495.1	4555.5	4555.5
17.5°	4403.0	4423.2	4434.7	4503.7	4503.7
20°	4308.1	4339.7	4362.7	4437.6	4449.1
22.5°	4213.1	4250.5	4285.0	4362.7	4380.0
25°	4092.2	4149.8	4198.7	4290.8	4293.7
27.5°	3974.2	4037.5	4103.7	4192.9	4201.6
30°	3844.7	3925.3	4005.9	4092.2	4118.1
32.5°	3706.6	3795.8	3885.0	4000.1	4034.7
35°	3557.0	3651.9	3775.7	3896.5	3931.1
37.5°	3407.3	3513.8	3657.7	3781.4	3813.1
40°	3254.8	3372.8	3533.9	3660.6	3698.0
42.5°	3085.0	3228.9	3401.6	3536.8	3580.0
45°	2923.8	3076.4	3263.4	3410.2	3450.5
47.5°	2754.0	2915.2	3116.6	3272.0	3318.1
50°	2572.7	2756.9	2972.8	3128.2	3171.3
52.5°	2403.0	2590.0	2817.4	2978.5	3038.9
55°	2224.5	2423.1	2656.2	2823.1	2880.7
57.5°	2057.6	2247.6	2497.9	2664.8	2736.8
60°	1867.7	2077.8	2328.1	2509.4	2567.0
62.5°	1689.3	1902.2	2161.2	2348.3	2414.5
65°	1505.1	1720.9	1988.6	2184.2	2244.7
67.5°	1332.4	1545.4	1818.8	2011.6	2089.3
70°	1142.5	1367.0	1646.1	1844.7	1910.9
72.5°	955.4	1188.5	1473.4	1686.4	1761.2
75°	782.8	1010.1	1306.5	1513.7	1597.2
77.5°	615.8	846.1	1145.4	1358.3	1430.3
80°	448.9	690.7	995.7	1205.8	1274.9
82.5°	296.4	549.7	851.8	1061.9	1136.7
85°	172.7	428.8	725.2	926.6	1007.2
87.5°	74.8	325.2	607.2	805.8	872.0
90°	2.9	241.7	512.2	705.1	774.1
92.5°	2.9	236.0	500.7	690.7	756.9
95°	2.9	230.2	497.9	682.0	748.2
97.5°	2.9	227.3	492.1	676.3	739.6
100°	2.9	218.7	483.5	664.8	728.1
102.5°	2.9	207.2	474.8	653.3	713.7
105°	2.9	198.6	466.2	641.7	699.3
107.5°	2.9	189.9	451.8	627.4	684.9
110°	2.9	181.3	428.8	613.0	670.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	178.4	411.5	592.8	653.3
115°	5.8	172.7	394.3	569.8	633.1
117.5°	5.8	169.8	379.9	546.8	613.0
120°	5.8	161.2	365.5	526.6	589.9
122.5°	5.8	152.5	351.1	506.5	569.8
125°	5.8	146.8	336.7	486.3	546.8
127.5°	5.8	138.1	325.2	466.2	520.9
130°	5.8	132.4	310.8	443.2	497.9
132.5°	5.8	123.7	296.4	420.2	472.0
135°	5.8	115.1	282.0	400.0	448.9
137.5°	5.8	103.6	264.8	377.0	423.0
140°	5.8	95.0	241.7	354.0	397.1
142.5°	5.8	89.2	218.7	328.1	368.4
145°	5.8	83.5	195.7	302.2	339.6
147.5°	5.8	77.7	175.5	276.3	310.8
150°	5.8	69.1	155.4	253.2	282.0
152.5°	8.6	63.3	138.1	224.5	253.2
155°	8.6	57.6	120.9	192.8	224.5
157.5°	8.6	51.8	103.6	161.2	195.7
160°	8.6	46.0	89.2	132.4	166.9
162.5°	8.6	43.2	77.7	109.4	141.0
165°	8.6	37.4	66.2	89.2	115.1
167.5°	8.6	28.8	54.7	69.1	95.0
170°	8.6	23.0	43.2	48.9	71.9
172.5°	8.6	17.3	31.7	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)