

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: P567574

Luminaire Tested: **8SNX-174HL-SLW-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567574
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-SLW-UNV-L930-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

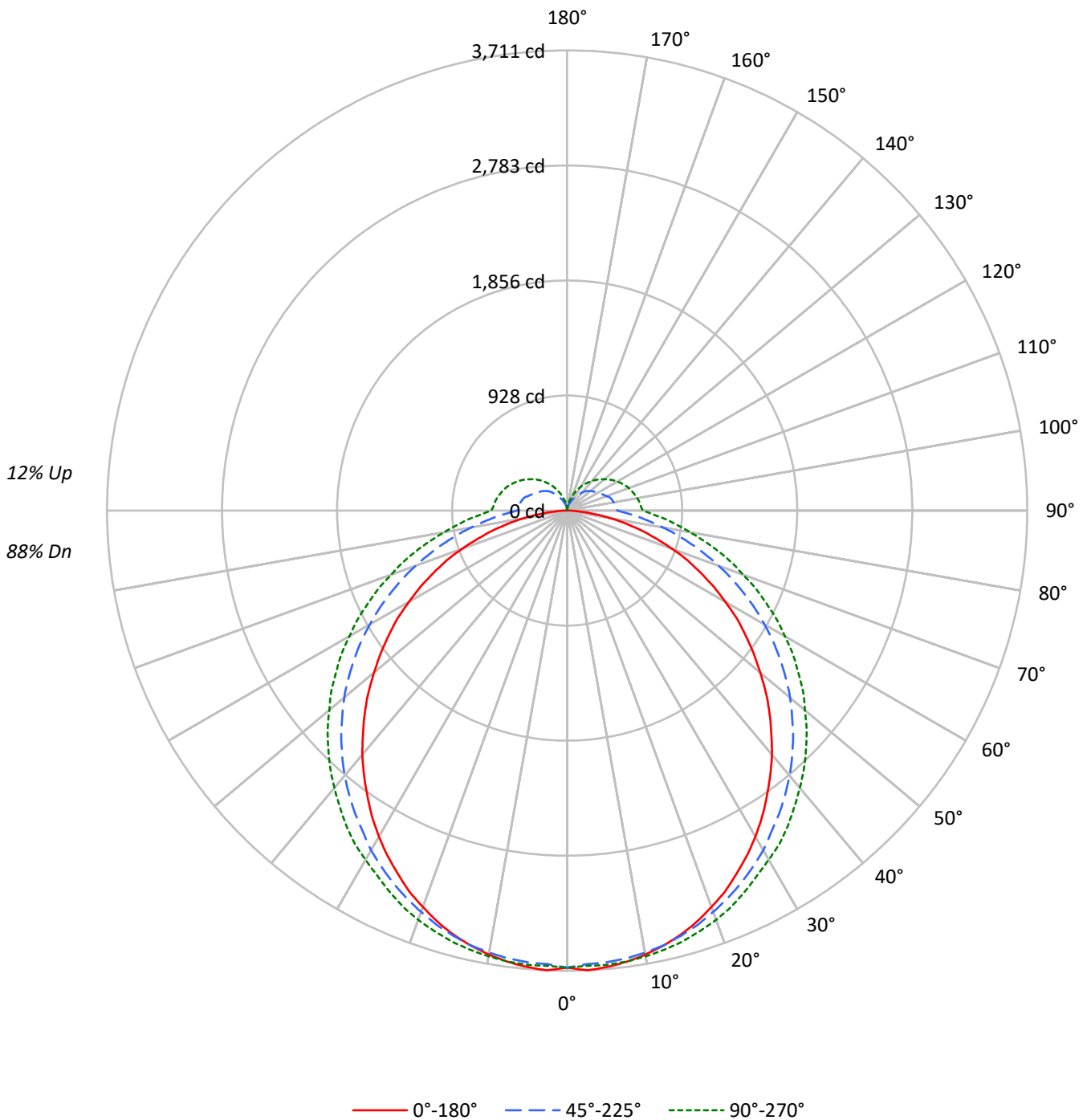
Lumens per Lamp: N/A
Luminaire Lumens: 13270.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 124.4
Input Voltage (V): NR
Input Current (A_{in}): 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°	19837	19837	19837
5°	19944	19344	19303
10°	19834	18973	18841
15°	19672	18572	18406
20°	19410	18133	17952
25°	19097	17691	17435
30°	18755	17247	16958
35°	18321	16749	16548
40°	17901	16295	16046
45°	17392	15791	15569
50°	16803	15253	15023
55°	16242	14625	14479
60°	15594	13942	13853
65°	14806	13163	13185
70°	13803	12283	12417
75°	12374	11270	11713
80°	10377	10270	10823
85°	7524	9388	10244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.9	2.6
10°-20°	1006.6	7.6
20°-30°	1531.3	11.5
30°-40°	1861.9	14.0
40°-50°	1969.8	14.8
50°-60°	1846.4	13.9
60°-70°	1519.0	11.4
70°-80°	1051.0	7.9
80°-90°	584.4	4.4
90°-100°	385.0	2.9
100°-110°	345.3	2.6
110°-120°	285.8	2.2
120°-130°	220.9	1.7
130°-140°	156.4	1.2
140°-150°	94.3	0.7
150°-160°	45.3	0.3
160°-170°	14.8	0.1
170°-180°	1.8	0.0
0°-30°	2887.8	21.8
0°-40°	4749.6	35.8
0°-60°	8565.9	64.6
0°-90°	11720.3	88.3
90°-120°	1016.1	7.7
90°-150°	1487.7	11.2
90°-180°	1550.0	11.7
0°-180°	13270.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3686	3686	3686	3686	3686	
5°	3695	3688	3656	3686	3677	351
15°	3540	3552	3550	3597	3597	998
25°	3231	3277	3316	3388	3390	1489
35°	2809	2884	2981	3077	3104	1758
45°	2309	2429	2577	2693	2725	1780
55°	1757	1913	2098	2229	2275	1572
65°	1188	1359	1570	1725	1772	1178
75°	618	798	1032	1195	1261	656
85°	136	339	573	732	795	157
90°	2	191	404	557	611	9
95°	2	182	393	539	591	2
105°	2	157	368	507	552	2
115°	4	136	311	450	500	4
125°	4	116	266	384	432	4
135°	4	91	223	316	354	3
145°	4	66	154	239	268	3
155°	7	45	95	152	177	3
165°	7	30	52	70	91	2
175°	7	11	16	16	9	1
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3685.9	3685.9	3685.9	3685.9	3685.9
2.5°	3710.9	3699.5	3660.9	3685.9	3674.5
5°	3695.0	3688.2	3656.4	3685.9	3676.8
7.5°	3670.0	3667.7	3642.7	3676.8	3667.7
10°	3635.9	3640.4	3620.0	3656.4	3649.5
12.5°	3592.7	3599.5	3590.5	3631.4	3626.8
15°	3540.5	3551.8	3549.5	3597.3	3597.3
17.5°	3476.8	3492.7	3501.8	3556.4	3556.4
20°	3401.8	3426.8	3445.0	3504.1	3513.2
22.5°	3326.8	3356.4	3383.7	3445.0	3458.6
25°	3231.4	3276.9	3315.5	3388.2	3390.5
27.5°	3138.2	3188.2	3240.5	3310.9	3317.8
30°	3036.0	3099.6	3163.2	3231.4	3251.9
32.5°	2926.9	2997.3	3067.8	3158.7	3186.0
35°	2808.7	2883.7	2981.4	3076.9	3104.1
37.5°	2690.6	2774.6	2888.3	2986.0	3011.0
40°	2570.1	2663.3	2790.6	2890.5	2920.1
42.5°	2436.1	2549.7	2686.0	2792.8	2826.9
45°	2308.8	2429.2	2576.9	2692.8	2724.7
47.5°	2174.7	2302.0	2461.0	2583.8	2620.1
50°	2031.6	2177.0	2347.4	2470.1	2504.2
52.5°	1897.5	2045.2	2224.7	2352.0	2399.7
55°	1756.6	1913.4	2097.5	2229.3	2274.7
57.5°	1624.8	1774.8	1972.5	2104.3	2161.1
60°	1474.8	1640.7	1838.4	1981.6	2027.0
62.5°	1333.9	1502.1	1706.6	1854.3	1906.6
65°	1188.5	1358.9	1570.3	1724.8	1772.5
67.5°	1052.1	1220.3	1436.2	1588.4	1649.8
70°	902.2	1079.4	1299.8	1456.6	1508.9
72.5°	754.4	938.5	1163.5	1331.6	1390.7
75°	618.1	797.6	1031.7	1195.3	1261.2
77.5°	486.3	668.1	904.4	1072.6	1129.4
80°	354.5	545.4	786.3	952.2	1006.7
82.5°	234.1	434.0	672.6	838.5	897.6
85°	136.3	338.6	572.7	731.7	795.4
87.5°	59.1	256.8	479.5	636.3	688.5
90°	2.3	190.9	404.5	556.7	611.3
92.5°	2.3	186.3	395.4	545.4	597.7
95°	2.3	181.8	393.1	538.6	590.8
97.5°	2.3	179.5	388.6	534.0	584.0
100°	2.3	172.7	381.8	524.9	574.9
102.5°	2.3	163.6	375.0	515.8	563.6
105°	2.3	156.8	368.1	506.8	552.2
107.5°	2.3	150.0	356.8	495.4	540.8
110°	2.3	143.2	338.6	484.0	529.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	140.9	325.0	468.1	515.8
115°	4.5	136.3	311.3	449.9	499.9
117.5°	4.5	134.1	300.0	431.8	484.0
120°	4.5	127.3	288.6	415.9	465.8
122.5°	4.5	120.4	277.2	399.9	449.9
125°	4.5	115.9	265.9	384.0	431.8
127.5°	4.5	109.1	256.8	368.1	411.3
130°	4.5	104.5	245.4	350.0	393.1
132.5°	4.5	97.7	234.1	331.8	372.7
135°	4.5	90.9	222.7	315.9	354.5
137.5°	4.5	81.8	209.1	297.7	334.0
140°	4.5	75.0	190.9	279.5	313.6
142.5°	4.5	70.4	172.7	259.1	290.9
145°	4.5	65.9	154.5	238.6	268.1
147.5°	4.5	61.4	138.6	218.2	245.4
150°	4.5	54.5	122.7	200.0	222.7
152.5°	6.8	50.0	109.1	177.3	200.0
155°	6.8	45.4	95.4	152.3	177.3
157.5°	6.8	40.9	81.8	127.3	154.5
160°	6.8	36.4	70.4	104.5	131.8
162.5°	6.8	34.1	61.4	86.4	111.3
165°	6.8	29.5	52.3	70.4	90.9
167.5°	6.8	22.7	43.2	54.5	75.0
170°	6.8	18.2	34.1	38.6	56.8
172.5°	6.8	13.6	25.0	27.3	29.5
175°	6.8	11.4	15.9	15.9	9.1
177.5°	6.8	9.1	9.1	9.1	4.5
180°	4.5	4.5	4.5	4.5	4.5

(END OF REPORT)