

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: P567590

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567590
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-180HL-FDL-UNV-L930-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

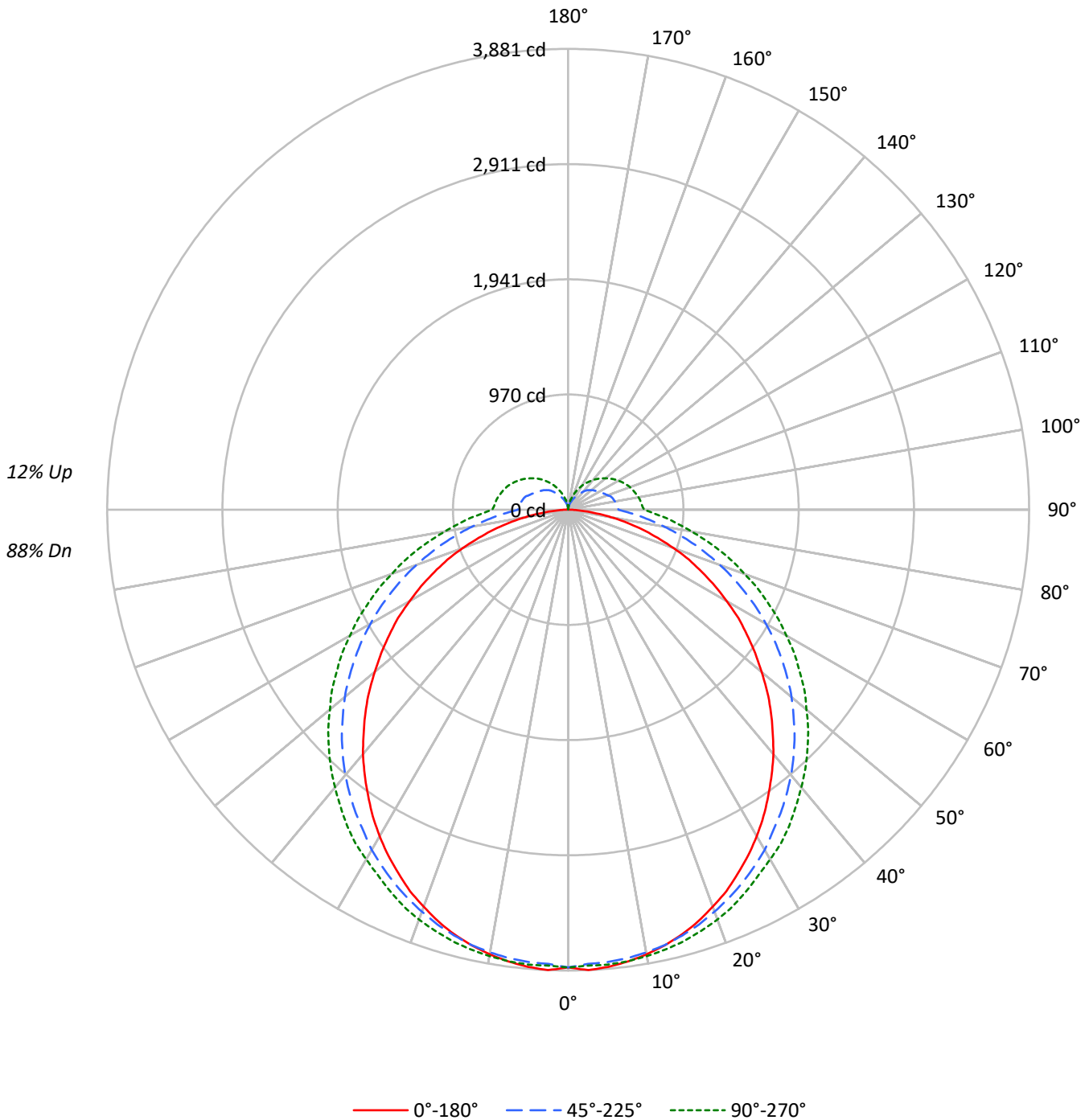
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13878.0 lumens
Efficiency: N/A
Efficacy: 107.7 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: 0.04')
CIE Type: Semi-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	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°	20746	20746	20746
5°	20867	20441	20476
10°	20762	20256	20263
15°	20602	20031	20066
20°	20338	19761	19840
25°	20020	19486	19538
30°	19673	19211	19279
35°	19229	18879	19100
40°	18802	18606	18823
45°	18283	18289	18590
50°	17679	17955	18295
55°	17111	17539	18030
60°	16454	17096	17707
65°	15653	16589	17391
70°	14637	16036	17032
75°	13185	15436	16910
80°	11160	15087	16774
85°	8311	15479	17681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.0	2.6
10°-20°	1052.7	7.6
20°-30°	1601.4	11.5
30°-40°	1947.2	14.0
40°-50°	2060.1	14.8
50°-60°	1931.0	13.9
60°-70°	1588.6	11.4
70°-80°	1099.2	7.9
80°-90°	611.2	4.4
90°-100°	402.7	2.9
100°-110°	361.1	2.6
110°-120°	298.9	2.2
120°-130°	231.1	1.7
130°-140°	163.6	1.2
140°-150°	98.7	0.7
150°-160°	47.4	0.3
160°-170°	15.5	0.1
170°-180°	1.9	0.0
0°-30°	3020.1	21.8
0°-40°	4967.2	35.8
0°-60°	8958.3	64.6
0°-90°	12257.3	88.3
90°-120°	1062.6	7.7
90°-150°	1555.9	11.2
90°-180°	1621.0	11.7
0°-180°	13878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3855	3855	3855	3855	3855	
5°	3864	3857	3824	3855	3845	367
15°	3703	3715	3712	3762	3762	1044
25°	3380	3427	3467	3543	3546	1558
35°	2937	3016	3118	3218	3246	1838
45°	2415	2540	2695	2816	2850	1861
55°	1837	2001	2194	2331	2379	1645
65°	1243	1421	1642	1804	1854	1232
75°	646	834	1079	1250	1319	686
85°	143	354	599	765	832	164
90°	2	200	423	582	639	9
95°	2	190	411	563	618	2
105°	2	164	385	530	578	3
115°	5	143	326	471	523	4
125°	5	121	278	402	452	4
135°	5	95	233	330	371	4
145°	5	69	162	250	280	3
155°	7	48	100	159	185	3
165°	7	31	55	74	95	2
175°	7	12	17	17	10	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3854.8	3854.8	3854.8	3854.8	3854.8
2.5°	3880.9	3869.0	3828.6	3854.8	3842.9
5°	3864.3	3857.1	3823.9	3854.8	3845.3
7.5°	3838.1	3835.8	3809.6	3845.3	3835.8
10°	3802.5	3807.2	3785.9	3823.9	3816.7
12.5°	3757.3	3764.5	3755.0	3797.7	3793.0
15°	3702.7	3714.6	3712.2	3762.1	3762.1
17.5°	3636.1	3652.8	3662.3	3719.3	3719.3
20°	3557.7	3583.8	3602.9	3664.6	3674.2
22.5°	3479.3	3510.2	3538.7	3602.9	3617.1
25°	3379.5	3427.0	3467.4	3543.4	3545.8
27.5°	3282.0	3334.3	3389.0	3462.6	3469.8
30°	3175.1	3241.6	3308.2	3379.5	3400.8
32.5°	3061.0	3134.7	3208.3	3303.4	3331.9
35°	2937.4	3015.8	3118.0	3217.9	3246.4
37.5°	2813.8	2901.8	3020.6	3122.8	3148.9
40°	2687.9	2785.3	2918.4	3023.0	3053.9
42.5°	2547.7	2666.5	2809.1	2920.8	2956.4
45°	2414.6	2540.5	2695.0	2816.2	2849.5
47.5°	2274.4	2407.4	2573.8	2702.1	2740.2
50°	2124.6	2276.7	2455.0	2583.3	2619.0
52.5°	1984.4	2138.9	2326.6	2459.7	2509.6
55°	1837.1	2001.1	2193.6	2331.4	2378.9
57.5°	1699.2	1856.1	2062.8	2200.7	2260.1
60°	1542.4	1715.9	1922.6	2072.4	2119.9
62.5°	1395.0	1570.9	1784.8	1939.3	1993.9
65°	1242.9	1421.2	1642.2	1803.8	1853.7
67.5°	1100.3	1276.2	1502.0	1661.2	1725.4
70°	943.5	1128.9	1359.4	1523.4	1578.0
72.5°	789.0	981.5	1216.8	1392.7	1454.5
75°	646.4	834.2	1079.0	1250.1	1319.0
77.5°	508.6	698.7	945.9	1121.7	1181.1
80°	370.7	570.4	822.3	995.8	1052.8
82.5°	244.8	453.9	703.5	876.9	938.7
85°	142.6	354.1	598.9	765.3	831.8
87.5°	61.8	268.6	501.5	665.4	720.1
90°	2.4	199.6	423.0	582.3	639.3
92.5°	2.4	194.9	413.5	570.4	625.0
95°	2.4	190.1	411.1	563.2	617.9
97.5°	2.4	187.7	406.4	558.5	610.8
100°	2.4	180.6	399.3	549.0	601.3
102.5°	2.4	171.1	392.1	539.5	589.4
105°	2.4	164.0	385.0	530.0	577.5
107.5°	2.4	156.9	373.1	518.1	565.6
110°	2.4	149.7	354.1	506.2	553.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	147.3	339.8	489.6	539.5
115°	4.8	142.6	325.6	470.6	522.8
117.5°	4.8	140.2	313.7	451.5	506.2
120°	4.8	133.1	301.8	434.9	487.2
122.5°	4.8	126.0	289.9	418.3	470.6
125°	4.8	121.2	278.1	401.6	451.5
127.5°	4.8	114.1	268.6	385.0	430.2
130°	4.8	109.3	256.7	366.0	411.1
132.5°	4.8	102.2	244.8	347.0	389.8
135°	4.8	95.1	232.9	330.3	370.7
137.5°	4.8	85.6	218.6	311.3	349.4
140°	4.8	78.4	199.6	292.3	328.0
142.5°	4.8	73.7	180.6	270.9	304.2
145°	4.8	68.9	161.6	249.5	280.4
147.5°	4.8	64.2	145.0	228.1	256.7
150°	4.8	57.0	128.3	209.1	232.9
152.5°	7.1	52.3	114.1	185.4	209.1
155°	7.1	47.5	99.8	159.2	185.4
157.5°	7.1	42.8	85.6	133.1	161.6
160°	7.1	38.0	73.7	109.3	137.8
162.5°	7.1	35.6	64.2	90.3	116.5
165°	7.1	30.9	54.7	73.7	95.1
167.5°	7.1	23.8	45.2	57.0	78.4
170°	7.1	19.0	35.6	40.4	59.4
172.5°	7.1	14.3	26.1	28.5	30.9
175°	7.1	11.9	16.6	16.6	9.5
177.5°	7.1	9.5	9.5	9.5	4.8
180°	4.8	4.8	4.8	4.8	4.8

(END OF REPORT)