

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: P565790

Luminaire Tested: **2SNX-47HL-FDL-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565790
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: 2SNX-47HL-FDL-UNV-L930-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

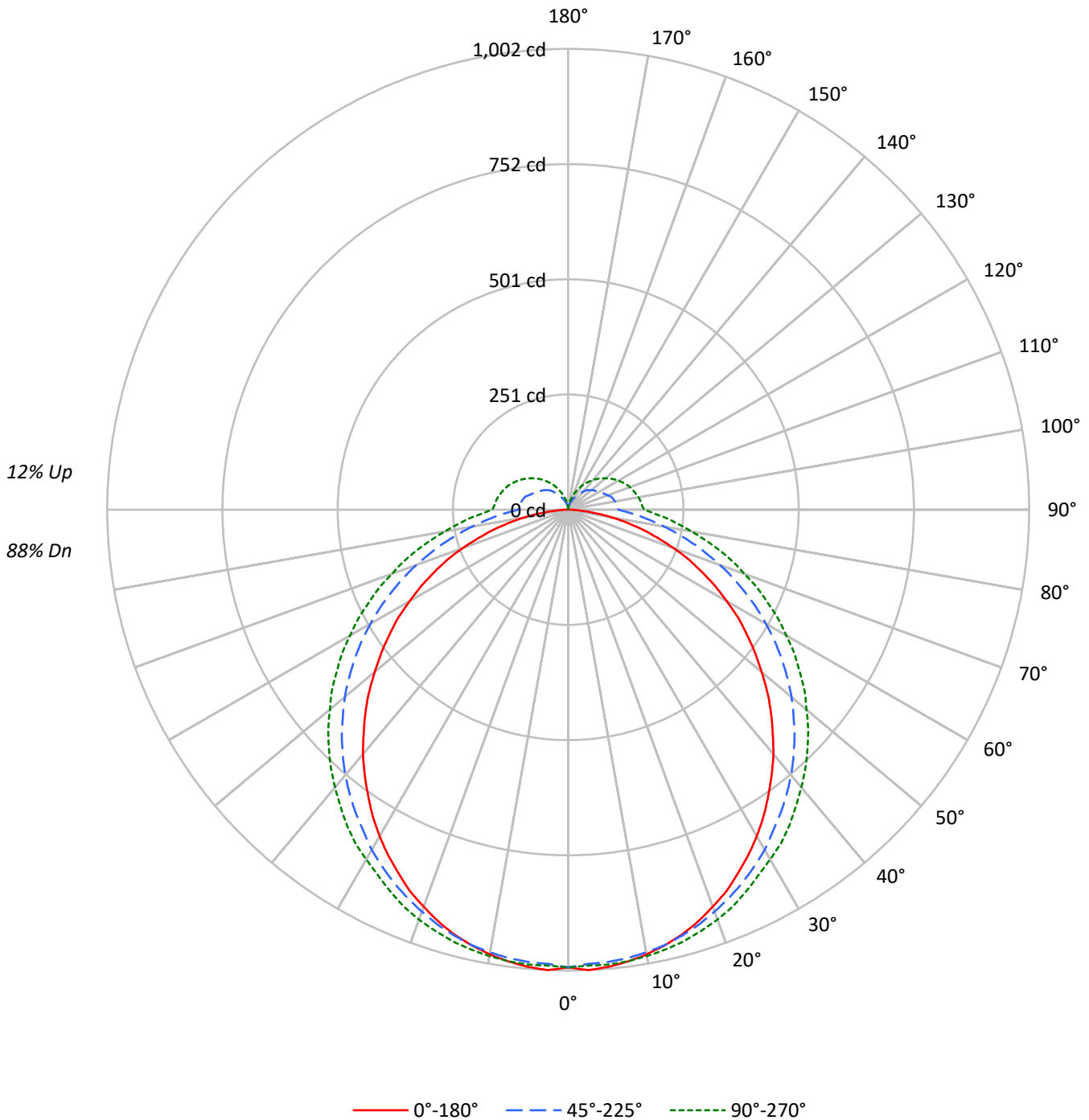
Lumens per Lamp: N/A
Luminaire Lumens: 3583.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 33.7
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°	21424	21424	21424
5°	21521	21089	21146
10°	21381	20878	20926
15°	21188	20627	20722
20°	20884	20329	20489
25°	20525	20026	20178
30°	20134	19722	19910
35°	19645	19359	19724
40°	19168	19055	19438
45°	18592	18704	19199
50°	17925	18330	18894
55°	17287	17871	18620
60°	16548	17381	18286
65°	15647	16817	17960
70°	14503	16194	17589
75°	12881	15502	17461
80°	10611	15023	17322
85°	7342	15181	18264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	2.6
10°-20°	271.8	7.6
20°-30°	413.5	11.5
30°-40°	502.7	14.0
40°-50°	531.9	14.8
50°-60°	498.5	13.9
60°-70°	410.1	11.4
70°-80°	283.8	7.9
80°-90°	157.8	4.4
90°-100°	104.0	2.9
100°-110°	93.2	2.6
110°-120°	77.2	2.2
120°-130°	59.7	1.7
130°-140°	42.2	1.2
140°-150°	25.5	0.7
150°-160°	12.2	0.3
160°-170°	4.0	0.1
170°-180°	0.5	0.0
0°-30°	779.7	21.8
0°-40°	1282.4	35.8
0°-60°	2312.9	64.6
0°-90°	3164.6	88.3
90°-120°	274.3	7.7
90°-150°	401.7	11.2
90°-180°	418.0	11.7
0°-180°	3583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	995	995	995	995	995	
5°	998	996	987	995	993	95
15°	956	959	958	971	971	269
25°	872	885	895	915	916	402
35°	758	779	805	831	838	475
45°	623	656	696	727	736	481
55°	474	517	566	602	614	425
65°	321	367	424	466	479	318
75°	167	215	279	323	340	177
85°	37	91	155	198	215	42
90°	1	52	109	150	165	2
95°	1	49	106	145	160	0
105°	1	42	99	137	149	1
115°	1	37	84	122	135	1
125°	1	31	72	104	117	1
135°	1	24	60	85	96	1
145°	1	18	42	64	72	1
155°	2	12	26	41	48	1
165°	2	8	14	19	24	1
175°	2	3	4	4	2	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.2	995.2	995.2	995.2	995.2
2.5°	1002.0	998.9	988.5	995.2	992.2
5°	997.7	995.8	987.2	995.2	992.8
7.5°	990.9	990.3	983.6	992.8	990.3
10°	981.7	982.9	977.4	987.2	985.4
12.5°	970.1	971.9	969.4	980.5	979.3
15°	956.0	959.0	958.4	971.3	971.3
17.5°	938.8	943.1	945.5	960.2	960.2
20°	918.5	925.3	930.2	946.1	948.6
22.5°	898.3	906.3	913.6	930.2	933.9
25°	872.5	884.8	895.2	914.8	915.5
27.5°	847.3	860.8	875.0	894.0	895.8
30°	819.7	836.9	854.1	872.5	878.0
32.5°	790.3	809.3	828.3	852.9	860.2
35°	758.4	778.6	805.0	830.8	838.1
37.5°	726.5	749.2	779.9	806.2	813.0
40°	694.0	719.1	753.5	780.5	788.4
42.5°	657.8	688.4	725.2	754.1	763.3
45°	623.4	655.9	695.8	727.1	735.7
47.5°	587.2	621.6	664.5	697.6	707.5
50°	548.5	587.8	633.8	667.0	676.2
52.5°	512.3	552.2	600.7	635.1	647.9
55°	474.3	516.6	566.3	601.9	614.2
57.5°	438.7	479.2	532.6	568.2	583.5
60°	398.2	443.0	496.4	535.0	547.3
62.5°	360.2	405.6	460.8	500.7	514.8
65°	320.9	366.9	424.0	465.7	478.6
67.5°	284.1	329.5	387.8	428.9	445.5
70°	243.6	291.4	351.0	393.3	407.4
72.5°	203.7	253.4	314.2	359.6	375.5
75°	166.9	215.4	278.6	322.7	340.5
77.5°	131.3	180.4	244.2	289.6	304.9
80°	95.7	147.3	212.3	257.1	271.8
82.5°	63.2	117.2	181.6	226.4	242.4
85°	36.8	91.4	154.6	197.6	214.8
87.5°	16.0	69.3	129.5	171.8	185.9
90°	0.6	51.5	109.2	150.3	165.1
92.5°	0.6	50.3	106.8	147.3	161.4
95°	0.6	49.1	106.1	145.4	159.5
97.5°	0.6	48.5	104.9	144.2	157.7
100°	0.6	46.6	103.1	141.7	155.2
102.5°	0.6	44.2	101.2	139.3	152.2
105°	0.6	42.3	99.4	136.8	149.1
107.5°	0.6	40.5	96.3	133.8	146.0
110°	0.6	38.7	91.4	130.7	143.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	38.0	87.7	126.4	139.3
115°	1.2	36.8	84.1	121.5	135.0
117.5°	1.2	36.2	81.0	116.6	130.7
120°	1.2	34.4	77.9	112.3	125.8
122.5°	1.2	32.5	74.9	108.0	121.5
125°	1.2	31.3	71.8	103.7	116.6
127.5°	1.2	29.5	69.3	99.4	111.1
130°	1.2	28.2	66.3	94.5	106.1
132.5°	1.2	26.4	63.2	89.6	100.6
135°	1.2	24.5	60.1	85.3	95.7
137.5°	1.2	22.1	56.4	80.4	90.2
140°	1.2	20.2	51.5	75.5	84.7
142.5°	1.2	19.0	46.6	69.9	78.5
145°	1.2	17.8	41.7	64.4	72.4
147.5°	1.2	16.6	37.4	58.9	66.3
150°	1.2	14.7	33.1	54.0	60.1
152.5°	1.8	13.5	29.5	47.9	54.0
155°	1.8	12.3	25.8	41.1	47.9
157.5°	1.8	11.0	22.1	34.4	41.7
160°	1.8	9.8	19.0	28.2	35.6
162.5°	1.8	9.2	16.6	23.3	30.1
165°	1.8	8.0	14.1	19.0	24.5
167.5°	1.8	6.1	11.7	14.7	20.2
170°	1.8	4.9	9.2	10.4	15.3
172.5°	1.8	3.7	6.7	7.4	8.0
175°	1.8	3.1	4.3	4.3	2.5
177.5°	1.8	2.5	2.5	2.5	1.2
180°	1.2	1.2	1.2	1.2	1.2

(END OF REPORT)