

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: P565802

Luminaire Tested: **2SNX-47HL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNX-47HL-LN-UNV-L830-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

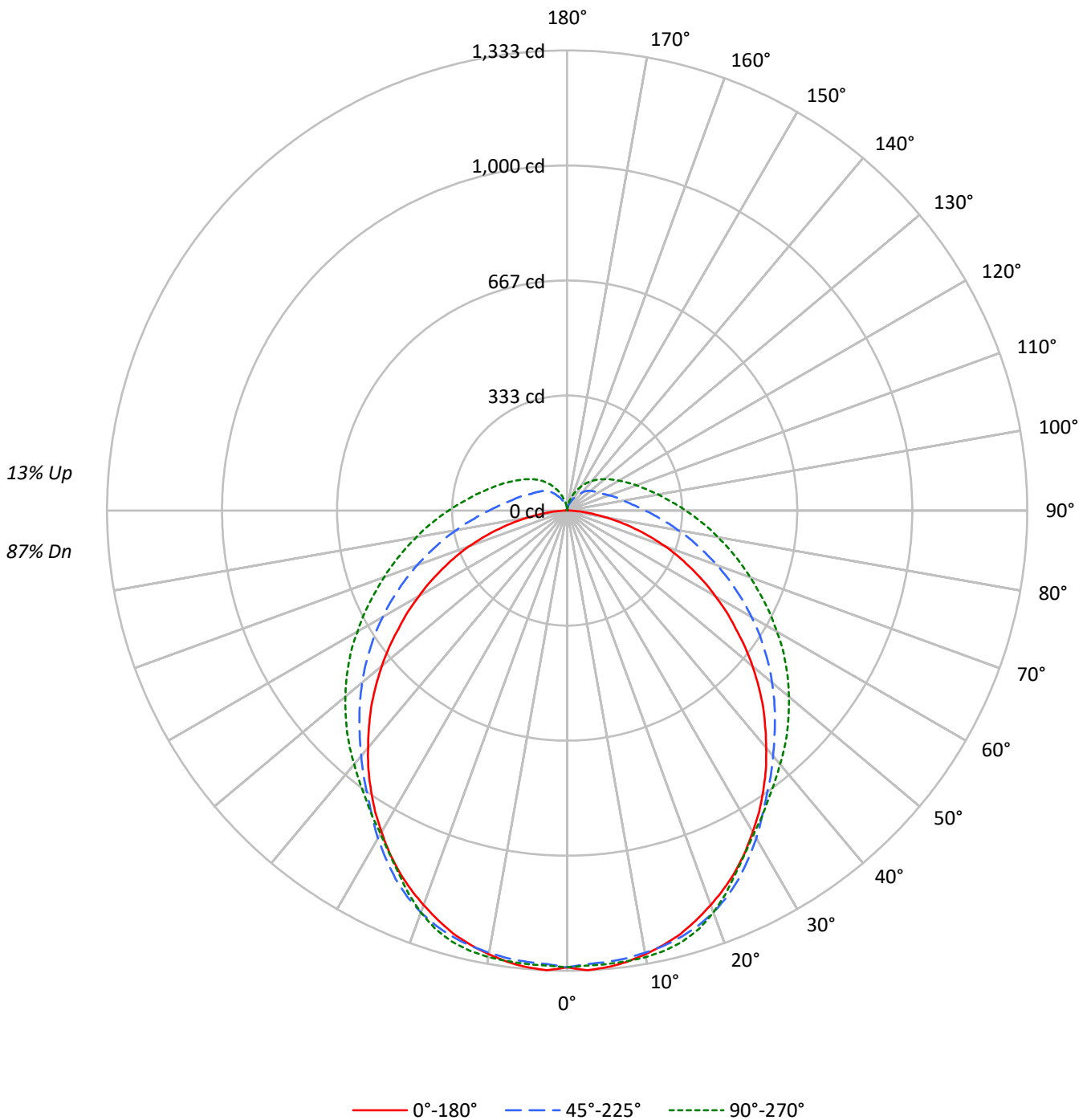
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4776.0 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.17')
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	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28481	28481	28481
5°	28488	27106	26933
10°	28118	25996	25689
15°	27678	24949	24437
20°	27042	23788	22838
25°	26363	22405	20967
30°	25503	20864	19401
35°	24591	19304	18236
40°	23563	18046	17291
45°	22550	16930	16477
50°	21363	15902	15655
55°	19987	14871	14851
60°	18643	13846	14011
65°	17148	12813	13242
70°	15426	11843	12546
75°	12892	10897	11971
80°	9681	10069	11485
85°	5845	9458	11207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	2.6
10°-20°	361.4	7.6
20°-30°	538.1	11.3
30°-40°	634.9	13.3
40°-50°	662.2	13.9
50°-60°	622.3	13.0
60°-70°	525.5	11.0
70°-80°	397.1	8.3
80°-90°	273.7	5.7
90°-100°	191.5	4.0
100°-110°	142.9	3.0
110°-120°	107.7	2.3
120°-130°	80.4	1.7
130°-140°	56.4	1.2
140°-150°	34.1	0.7
150°-160°	16.3	0.3
160°-170°	5.2	0.1
170°-180°	0.6	0.0
0°-30°	1025.2	21.5
0°-40°	1660.1	34.8
0°-60°	2944.5	61.7
0°-90°	4140.8	86.7
90°-120°	442.2	9.3
90°-150°	613.1	12.8
90°-180°	635.0	13.3
0°-180°	4776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1328	1326	1312	1322	1319	126
15°	1270	1275	1278	1295	1292	358
25°	1153	1176	1176	1166	1157	530
35°	990	1027	1007	1015	1018	619
45°	802	842	851	886	902	618
55°	596	647	696	752	772	535
65°	397	460	538	608	632	394
75°	203	282	390	472	502	216
85°	46	145	270	360	391	52
90°	1	103	226	312	343	3
95°	1	80	191	274	302	1
105°	2	58	147	214	238	2
115°	2	49	114	170	192	2
125°	2	42	96	139	157	2
135°	2	32	80	113	127	2
145°	3	24	56	87	97	2
155°	3	15	34	55	64	1
165°	4	10	18	24	32	1
175°	4	4	5	5	2	0
180°	2	2	2	2	2	



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CATALOG NUMBER: 2SNX-47HL-LN-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1323.0	1323.0	1323.0	1323.0	1323.0
2.5°	1332.8	1329.5	1314.9	1323.0	1319.0
5°	1327.9	1325.5	1312.5	1322.2	1319.0
7.5°	1319.0	1318.2	1308.5	1319.8	1316.6
10°	1305.2	1307.7	1300.4	1315.8	1313.3
12.5°	1289.0	1293.9	1291.5	1308.5	1306.0
15°	1269.6	1275.3	1278.5	1294.7	1292.3
17.5°	1243.7	1254.2	1261.5	1274.5	1270.4
20°	1216.2	1230.7	1238.8	1245.3	1238.8
22.5°	1186.2	1205.6	1210.5	1207.3	1200.8
25°	1153.0	1176.5	1176.5	1166.0	1157.1
27.5°	1115.8	1144.9	1136.8	1124.7	1117.4
30°	1075.3	1110.1	1096.3	1082.6	1080.9
32.5°	1034.8	1071.2	1051.0	1047.7	1050.2
35°	990.3	1026.7	1007.3	1015.4	1017.8
37.5°	945.7	982.2	969.2	981.3	988.6
40°	897.1	936.0	927.9	949.8	959.5
42.5°	849.4	889.9	889.0	917.4	932.0
45°	802.4	842.1	851.0	885.8	902.0
47.5°	751.4	791.9	813.7	854.2	870.4
50°	701.2	744.9	774.9	820.2	838.8
52.5°	649.4	695.5	736.8	787.0	806.5
55°	595.9	646.9	696.3	752.2	772.4
57.5°	548.2	600.0	658.3	715.8	739.3
60°	495.5	553.0	617.0	677.7	701.2
62.5°	447.8	506.9	578.1	642.1	667.2
65°	396.8	459.9	537.6	608.1	631.6
67.5°	349.8	414.6	499.6	570.8	596.7
70°	301.2	370.0	462.3	537.6	564.4
72.5°	251.0	323.9	425.1	505.2	532.8
75°	203.2	281.8	390.3	472.1	502.0
77.5°	158.7	241.3	358.7	442.9	472.1
80°	115.0	204.9	325.5	412.9	442.9
82.5°	76.1	173.3	298.8	386.2	417.8
85°	46.2	144.9	270.4	359.5	391.1
87.5°	21.1	121.5	247.8	336.0	366.8
90°	0.8	102.8	225.9	312.5	343.3
92.5°	0.8	89.9	208.1	292.3	322.3
95°	0.8	80.2	191.1	273.7	302.0
97.5°	0.8	73.7	178.1	255.9	283.4
100°	0.8	67.2	165.2	239.7	268.0
102.5°	1.6	61.5	155.5	225.1	251.8
105°	1.6	57.5	147.4	213.8	238.1
107.5°	1.6	55.1	138.5	202.4	225.1
110°	1.6	52.6	128.7	191.1	213.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	51.0	121.5	181.4	203.2
115°	1.6	49.4	114.2	170.0	191.9
117.5°	1.6	48.6	110.1	161.1	182.2
120°	2.4	46.2	105.3	153.0	173.3
122.5°	2.4	43.7	100.4	146.6	164.4
125°	2.4	42.1	96.4	139.3	157.1
127.5°	2.4	39.7	92.3	132.8	149.0
130°	2.4	37.2	89.1	126.3	141.7
132.5°	2.4	34.8	85.0	119.8	134.4
135°	2.4	32.4	80.2	113.4	127.1
137.5°	2.4	30.0	75.3	106.9	119.8
140°	2.4	27.5	68.8	100.4	112.5
142.5°	2.4	25.1	62.3	93.9	104.5
145°	3.2	23.5	55.9	86.6	97.2
147.5°	3.2	21.1	49.4	79.4	88.3
150°	3.2	19.4	44.5	72.1	80.2
152.5°	3.2	17.0	39.7	64.0	72.1
155°	3.2	15.4	34.0	55.1	64.0
157.5°	3.2	13.8	29.1	46.2	55.9
160°	3.2	13.0	25.1	38.1	47.8
162.5°	4.0	11.3	21.1	30.8	39.7
165°	4.0	9.7	17.8	24.3	32.4
167.5°	4.0	8.1	14.6	18.6	25.1
170°	4.0	6.5	11.3	13.0	19.4
172.5°	4.0	4.9	8.1	8.9	9.7
175°	4.0	4.0	4.9	4.9	2.4
177.5°	4.0	4.0	3.2	2.4	0.8
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)