

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: P565787

Luminaire Tested: **2SNX-47HL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565787
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-L835-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

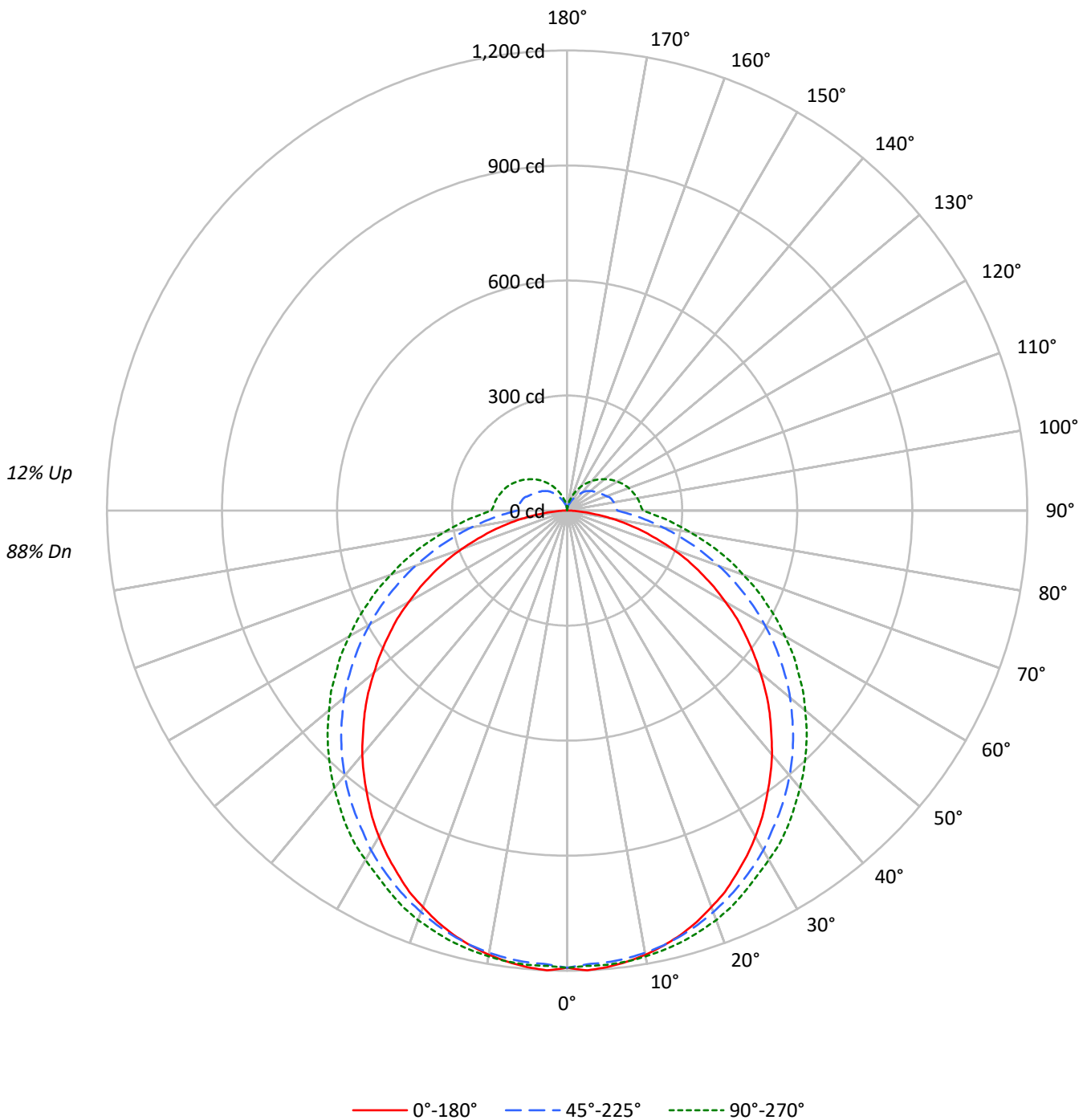
Lumens per Lamp: N/A
Luminaire Lumens: 4292.1 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.04')
CIE Type: Semi-Direct

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°	25665	25665	25665
5°	25779	25263	25329
10°	25613	25009	25067
15°	25379	24710	24823
20°	25018	24351	24543
25°	24588	23988	24169
30°	24118	23624	23851
35°	23530	23190	23628
40°	22960	22826	23286
45°	22269	22405	22998
50°	21474	21957	22633
55°	20706	21408	22304
60°	19822	20820	21904
65°	18744	20144	21514
70°	17372	19396	21069
75°	15428	18568	20917
80°	12717	17995	20751
85°	8798	18186	21869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	2.6
10°-20°	325.6	7.6
20°-30°	495.3	11.5
30°-40°	602.2	14.0
40°-50°	637.1	14.8
50°-60°	597.2	13.9
60°-70°	491.3	11.4
70°-80°	339.9	7.9
80°-90°	189.0	4.4
90°-100°	124.5	2.9
100°-110°	111.7	2.6
110°-120°	92.4	2.2
120°-130°	71.5	1.7
130°-140°	50.6	1.2
140°-150°	30.5	0.7
150°-160°	14.7	0.3
160°-170°	4.8	0.1
170°-180°	0.6	0.0
0°-30°	934.0	21.8
0°-40°	1536.2	35.8
0°-60°	2770.5	64.6
0°-90°	3790.8	88.3
90°-120°	328.6	7.7
90°-150°	481.2	11.2
90°-180°	501.0	11.7
0°-180°	4292.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1195	1193	1183	1192	1189	113
15°	1145	1149	1148	1164	1164	323
25°	1045	1060	1072	1096	1097	482
35°	908	933	964	995	1004	569
45°	747	786	834	871	881	576
55°	568	619	678	721	736	509
65°	384	440	508	558	573	381
75°	200	258	334	387	408	212
85°	44	110	185	237	257	51
90°	1	62	131	180	198	3
95°	1	59	127	174	191	1
105°	1	51	119	164	179	1
115°	2	44	101	146	162	1
125°	2	38	86	124	140	1
135°	2	29	72	102	115	1
145°	2	21	50	77	87	1
155°	2	15	31	49	57	1
165°	2	10	17	23	29	1
175°	2	4	5	5	3	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1192.2	1192.2	1192.2	1192.2	1192.2
2.5°	1200.2	1196.6	1184.1	1192.2	1188.5
5°	1195.1	1192.9	1182.6	1192.2	1189.2
7.5°	1187.0	1186.3	1178.2	1189.2	1186.3
10°	1176.0	1177.5	1170.8	1182.6	1180.4
12.5°	1162.0	1164.2	1161.3	1174.5	1173.0
15°	1145.1	1148.8	1148.1	1163.5	1163.5
17.5°	1124.5	1129.7	1132.6	1150.3	1150.3
20°	1100.3	1108.4	1114.2	1133.4	1136.3
22.5°	1076.0	1085.6	1094.4	1114.2	1118.7
25°	1045.2	1059.9	1072.3	1095.9	1096.6
27.5°	1015.0	1031.2	1048.1	1070.9	1073.1
30°	981.9	1002.5	1023.1	1045.2	1051.8
32.5°	946.7	969.5	992.2	1021.6	1030.5
35°	908.4	932.7	964.3	995.2	1004.0
37.5°	870.2	897.4	934.2	965.8	973.9
40°	831.3	861.4	902.6	934.9	944.5
42.5°	787.9	824.7	868.8	903.3	914.3
45°	746.7	785.7	833.5	871.0	881.3
47.5°	703.4	744.5	796.0	835.7	847.4
50°	657.1	704.1	759.2	798.9	810.0
52.5°	613.7	661.5	719.6	760.7	776.1
55°	568.1	618.9	678.4	721.0	735.7
57.5°	525.5	574.0	638.0	680.6	699.0
60°	477.0	530.7	594.6	640.9	655.6
62.5°	431.4	485.8	552.0	599.8	616.7
65°	384.4	439.5	507.9	557.9	573.3
67.5°	340.3	394.7	464.5	513.8	533.6
70°	291.8	349.1	420.4	471.1	488.0
72.5°	244.0	303.6	376.3	430.7	449.8
75°	199.9	258.0	333.7	386.6	407.9
77.5°	157.3	216.1	292.5	346.9	365.3
80°	114.7	176.4	254.3	308.0	325.6
82.5°	75.7	140.4	217.6	271.2	290.3
85°	44.1	109.5	185.2	236.7	257.2
87.5°	19.1	83.1	155.1	205.8	222.7
90°	0.7	61.7	130.8	180.1	197.7
92.5°	0.7	60.3	127.9	176.4	193.3
95°	0.7	58.8	127.2	174.2	191.1
97.5°	0.7	58.1	125.7	172.7	188.9
100°	0.7	55.9	123.5	169.8	186.0
102.5°	0.7	52.9	121.3	166.8	182.3
105°	0.7	50.7	119.1	163.9	178.6
107.5°	0.7	48.5	115.4	160.2	174.9
110°	0.7	46.3	109.5	156.6	171.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	45.6	105.1	151.4	166.8
115°	1.5	44.1	100.7	145.5	161.7
117.5°	1.5	43.4	97.0	139.6	156.6
120°	1.5	41.2	93.3	134.5	150.7
122.5°	1.5	39.0	89.7	129.4	145.5
125°	1.5	37.5	86.0	124.2	139.6
127.5°	1.5	35.3	83.1	119.1	133.0
130°	1.5	33.8	79.4	113.2	127.2
132.5°	1.5	31.6	75.7	107.3	120.5
135°	1.5	29.4	72.0	102.2	114.7
137.5°	1.5	26.5	67.6	96.3	108.0
140°	1.5	24.3	61.7	90.4	101.4
142.5°	1.5	22.8	55.9	83.8	94.1
145°	1.5	21.3	50.0	77.2	86.7
147.5°	1.5	19.8	44.8	70.6	79.4
150°	1.5	17.6	39.7	64.7	72.0
152.5°	2.2	16.2	35.3	57.3	64.7
155°	2.2	14.7	30.9	49.2	57.3
157.5°	2.2	13.2	26.5	41.2	50.0
160°	2.2	11.8	22.8	33.8	42.6
162.5°	2.2	11.0	19.8	27.9	36.0
165°	2.2	9.6	16.9	22.8	29.4
167.5°	2.2	7.3	14.0	17.6	24.3
170°	2.2	5.9	11.0	12.5	18.4
172.5°	2.2	4.4	8.1	8.8	9.6
175°	2.2	3.7	5.1	5.1	2.9
177.5°	2.2	2.9	2.9	2.9	1.5
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)