

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: P565805

Luminaire Tested: **2SNX-47HL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565805
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-L850-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

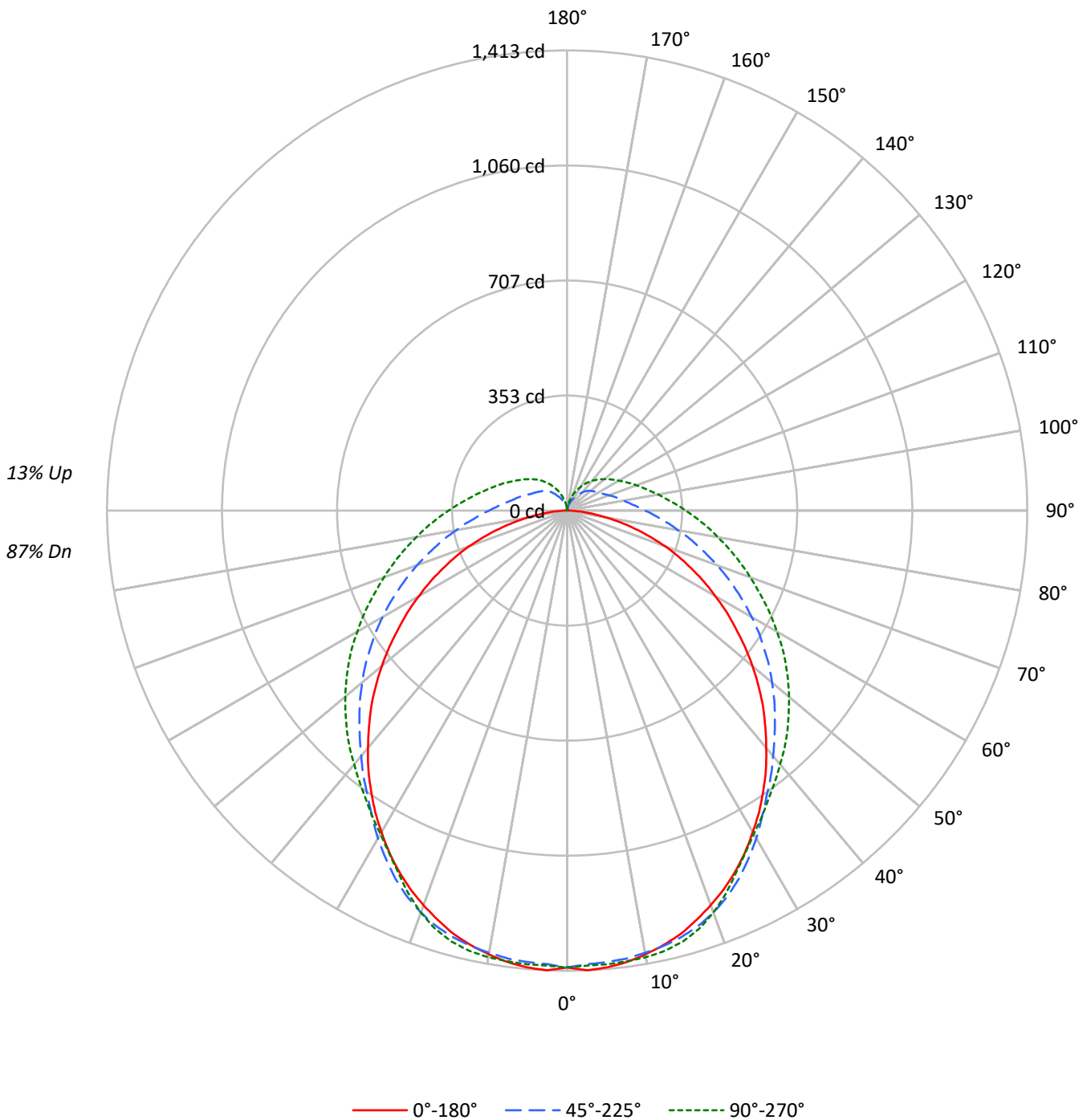
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5064.0 lumens
Efficiency: N/A
Efficacy: 150.3 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°	30199	30199	30199
5°	30207	28741	28556
10°	29814	27563	27238
15°	29348	26453	25910
20°	28672	25223	24216
25°	27952	23755	22230
30°	27040	22122	20572
35°	26073	20467	19336
40°	24984	19135	18333
45°	23910	17951	17470
50°	22651	16860	16599
55°	21194	15768	15747
60°	19768	14681	14857
65°	18181	13587	14038
70°	16359	12557	13301
75°	13672	11553	12693
80°	10262	10675	12177
85°	6186	10028	11883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	2.6
10°-20°	383.2	7.6
20°-30°	570.5	11.3
30°-40°	673.2	13.3
40°-50°	702.1	13.9
50°-60°	659.8	13.0
60°-70°	557.2	11.0
70°-80°	421.0	8.3
80°-90°	290.2	5.7
90°-100°	203.1	4.0
100°-110°	151.5	3.0
110°-120°	114.3	2.3
120°-130°	85.2	1.7
130°-140°	59.8	1.2
140°-150°	36.2	0.7
150°-160°	17.3	0.3
160°-170°	5.5	0.1
170°-180°	0.7	0.0
0°-30°	1087.0	21.5
0°-40°	1760.2	34.8
0°-60°	3122.1	61.7
0°-90°	4390.4	86.7
90°-120°	468.9	9.3
90°-150°	650.1	12.8
90°-180°	674.0	13.3
0°-180°	5064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1408	1405	1392	1402	1398	134
15°	1346	1352	1356	1373	1370	379
25°	1222	1247	1247	1236	1227	562
35°	1050	1089	1068	1077	1079	657
45°	851	893	902	939	956	655
55°	632	686	738	798	819	567
65°	421	488	570	645	670	418
75°	216	299	414	500	532	229
85°	49	154	287	381	415	55
90°	1	109	240	331	364	3
95°	1	85	203	290	320	1
105°	2	61	156	227	252	2
115°	2	52	121	180	204	2
125°	3	45	102	148	167	2
135°	3	34	85	120	135	2
145°	3	25	59	92	103	2
155°	3	16	36	58	68	2
165°	4	10	19	26	34	1
175°	4	4	5	5	3	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1402.8	1402.8	1402.8	1402.8	1402.8
2.5°	1413.1	1409.7	1394.2	1402.8	1398.5
5°	1408.0	1405.4	1391.7	1402.0	1398.5
7.5°	1398.5	1397.7	1387.4	1399.4	1396.0
10°	1383.9	1386.5	1378.8	1395.1	1392.5
12.5°	1366.8	1371.9	1369.3	1387.4	1384.8
15°	1346.2	1352.2	1355.6	1372.8	1370.2
17.5°	1318.7	1329.8	1337.6	1351.3	1347.0
20°	1289.5	1305.0	1313.5	1320.4	1313.5
22.5°	1257.7	1278.3	1283.5	1280.1	1273.2
25°	1222.5	1247.4	1247.4	1236.3	1226.8
27.5°	1183.0	1213.9	1205.4	1192.5	1184.8
30°	1140.1	1177.0	1162.4	1147.8	1146.1
32.5°	1097.2	1135.8	1114.4	1110.9	1113.5
35°	1050.0	1088.6	1068.0	1076.6	1079.2
37.5°	1002.8	1041.4	1027.6	1040.5	1048.3
40°	951.2	992.4	983.9	1007.0	1017.3
42.5°	900.6	943.5	942.7	972.7	988.2
45°	850.8	892.9	902.3	939.2	956.4
47.5°	796.7	839.6	862.8	905.7	922.9
50°	743.5	789.8	821.6	869.7	889.4
52.5°	688.5	737.5	781.3	834.5	855.1
55°	631.9	686.0	738.3	797.6	819.0
57.5°	581.2	636.2	698.0	758.9	783.8
60°	525.4	586.4	654.2	718.6	743.5
62.5°	474.8	537.4	613.0	680.8	707.4
65°	420.7	487.6	570.1	644.7	669.6
67.5°	370.9	439.6	529.7	605.3	632.7
70°	319.4	392.3	490.2	570.1	598.4
72.5°	266.1	343.4	450.7	535.7	564.9
75°	215.5	298.8	413.8	500.5	532.3
77.5°	168.3	255.8	380.3	469.6	500.5
80°	121.9	217.2	345.1	437.8	469.6
82.5°	80.7	183.7	316.8	409.5	443.0
85°	48.9	153.7	286.7	381.2	414.7
87.5°	22.3	128.8	262.7	356.3	388.9
90°	0.9	109.0	239.5	331.4	364.0
92.5°	0.9	95.3	220.6	309.9	341.7
95°	0.9	85.0	202.6	290.2	320.2
97.5°	0.9	78.1	188.9	271.3	300.5
100°	0.9	71.3	175.1	254.1	284.2
102.5°	1.7	65.2	164.8	238.7	267.0
105°	1.7	61.0	156.3	226.6	252.4
107.5°	1.7	58.4	146.8	214.6	238.7
110°	1.7	55.8	136.5	202.6	226.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	54.1	128.8	192.3	215.5
115°	1.7	52.4	121.1	180.3	203.5
117.5°	1.7	51.5	116.8	170.8	193.2
120°	2.6	48.9	111.6	162.3	183.7
122.5°	2.6	46.4	106.5	155.4	174.3
125°	2.6	44.6	102.2	147.7	166.6
127.5°	2.6	42.1	97.9	140.8	158.0
130°	2.6	39.5	94.4	133.9	150.2
132.5°	2.6	36.9	90.1	127.1	142.5
135°	2.6	34.3	85.0	120.2	134.8
137.5°	2.6	31.8	79.8	113.3	127.1
140°	2.6	29.2	73.0	106.5	119.3
142.5°	2.6	26.6	66.1	99.6	110.7
145°	3.4	24.9	59.2	91.9	103.0
147.5°	3.4	22.3	52.4	84.1	93.6
150°	3.4	20.6	47.2	76.4	85.0
152.5°	3.4	18.0	42.1	67.8	76.4
155°	3.4	16.3	36.1	58.4	67.8
157.5°	3.4	14.6	30.9	48.9	59.2
160°	3.4	13.7	26.6	40.4	50.7
162.5°	4.3	12.0	22.3	32.6	42.1
165°	4.3	10.3	18.9	25.8	34.3
167.5°	4.3	8.6	15.5	19.7	26.6
170°	4.3	6.9	12.0	13.7	20.6
172.5°	4.3	5.2	8.6	9.4	10.3
175°	4.3	4.3	5.2	5.2	2.6
177.5°	4.3	4.3	3.4	2.6	0.9
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)