

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: P565810

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565810
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-LW-UNV-L830-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

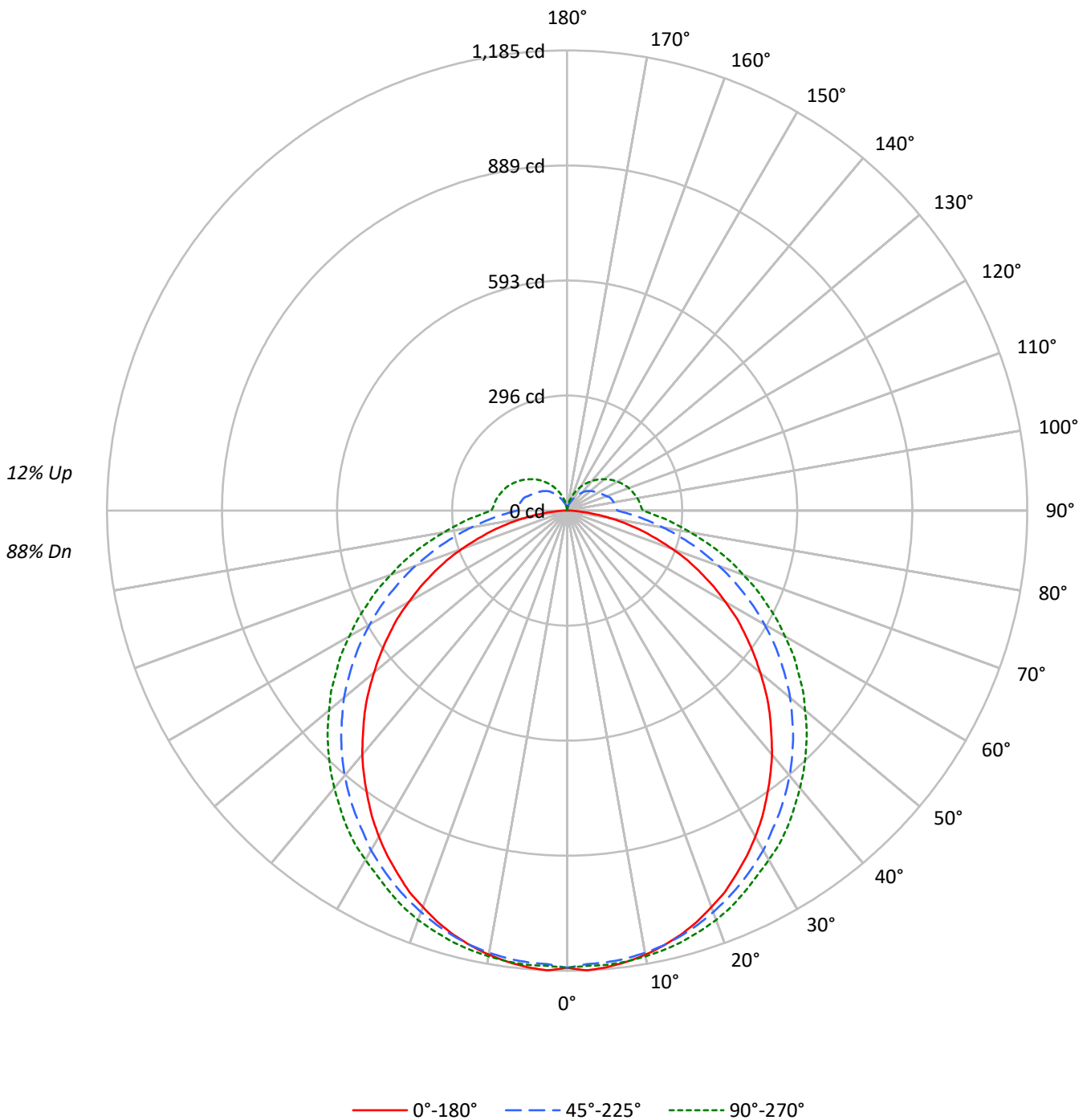
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4238.0 lumens
Efficiency: N/A
Efficacy: 125.8 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: 0.17')
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

TEST NUMBER: P565810
CATALOG NUMBER: 2SNX-47HL-LW-UNV-L830-CD

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°	25343	25343	25343
5°	25317	24115	23976
10°	25016	23111	22798
15°	24650	22121	21723
20°	24156	21127	20685
25°	23596	20165	19621
30°	22996	19225	18640
35°	22274	18248	17763
40°	21559	17332	16807
45°	20723	16373	15896
50°	19766	15385	14927
55°	18816	14307	13968
60°	17721	13175	12936
65°	16405	11952	11868
70°	14755	10634	10712
75°	12524	9199	9605
80°	9530	7767	8337
85°	5503	6397	7278



TEST NUMBER: P565810

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	2.6
10°-20°	321.5	7.6
20°-30°	489.0	11.5
30°-40°	594.6	14.0
40°-50°	629.1	14.8
50°-60°	589.7	13.9
60°-70°	485.1	11.4
70°-80°	335.7	7.9
80°-90°	186.6	4.4
90°-100°	123.0	2.9
100°-110°	110.3	2.6
110°-120°	91.3	2.2
120°-130°	70.6	1.7
130°-140°	50.0	1.2
140°-150°	30.1	0.7
150°-160°	14.5	0.3
160°-170°	4.7	0.1
170°-180°	0.6	0.0
0°-30°	922.2	21.8
0°-40°	1516.9	35.8
0°-60°	2735.7	64.6
0°-90°	3743.1	88.3
90°-120°	324.5	7.7
90°-150°	475.1	11.2
90°-180°	495.0	11.7
0°-180°	4238.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1180	1178	1168	1177	1174	112
15°	1131	1134	1134	1149	1149	319
25°	1032	1046	1059	1082	1083	476
35°	897	921	952	983	991	561
45°	737	776	823	860	870	568
55°	561	611	670	712	726	502
65°	380	434	502	551	566	376
75°	197	255	330	382	403	209
85°	44	108	183	234	254	50
90°	1	61	129	178	195	3
95°	1	58	126	172	189	1
105°	1	50	118	162	176	1
115°	2	44	99	144	160	1
125°	2	37	85	123	138	1
135°	2	29	71	101	113	1
145°	2	21	49	76	86	1
155°	2	14	30	49	57	1
165°	2	9	17	22	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°	1177.2	1177.2	1177.2	1177.2	1177.2
2.5°	1185.1	1181.5	1169.2	1177.2	1173.5
5°	1180.1	1177.9	1167.7	1177.2	1174.2
7.5°	1172.1	1171.3	1163.4	1174.2	1171.3
10°	1161.2	1162.6	1156.1	1167.7	1165.5
12.5°	1147.4	1149.6	1146.7	1159.7	1158.3
15°	1130.7	1134.3	1133.6	1148.8	1148.8
17.5°	1110.4	1115.5	1118.4	1135.8	1135.8
20°	1086.4	1094.4	1100.2	1119.1	1122.0
22.5°	1062.5	1071.9	1080.6	1100.2	1104.6
25°	1032.0	1046.5	1058.9	1082.1	1082.8
27.5°	1002.2	1018.2	1034.9	1057.4	1059.6
30°	969.6	989.9	1010.2	1032.0	1038.5
32.5°	934.8	957.3	979.8	1008.8	1017.5
35°	897.0	921.0	952.2	982.7	991.4
37.5°	859.3	886.1	922.4	953.6	961.6
40°	820.8	850.6	891.2	923.1	932.6
42.5°	778.0	814.3	857.8	891.9	902.8
45°	737.4	775.8	823.0	860.0	870.2
47.5°	694.5	735.2	786.0	825.2	836.8
50°	648.8	695.3	749.7	788.9	799.8
52.5°	606.0	653.2	710.5	751.1	766.4
55°	561.0	611.1	669.9	712.0	726.5
57.5°	518.9	566.8	629.9	672.0	690.2
60°	471.0	524.0	587.1	632.8	647.4
62.5°	426.0	479.7	545.0	592.2	608.9
65°	379.6	434.0	501.5	550.8	566.1
67.5°	336.0	389.7	458.7	507.3	526.9
70°	288.1	344.7	415.1	465.2	481.9
72.5°	240.9	299.7	371.6	425.3	444.2
75°	197.4	254.7	329.5	381.7	402.8
77.5°	155.3	213.4	288.8	342.5	360.7
80°	113.2	174.2	251.1	304.1	321.5
82.5°	74.8	138.6	214.8	267.8	286.7
85°	43.5	108.1	182.9	233.7	254.0
87.5°	18.9	82.0	153.1	203.2	219.9
90°	0.7	61.0	129.2	177.8	195.2
92.5°	0.7	59.5	126.3	174.2	190.9
95°	0.7	58.1	125.6	172.0	188.7
97.5°	0.7	57.3	124.1	170.5	186.5
100°	0.7	55.2	121.9	167.6	183.6
102.5°	0.7	52.3	119.7	164.7	180.0
105°	0.7	50.1	117.6	161.8	176.4
107.5°	0.7	47.9	113.9	158.2	172.7
110°	0.7	45.7	108.1	154.6	169.1



TEST NUMBER: P565810

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	45.0	103.8	149.5	164.7
115°	1.5	43.5	99.4	143.7	159.7
117.5°	1.5	42.8	95.8	137.9	154.6
120°	1.5	40.6	92.2	132.8	148.8
122.5°	1.5	38.5	88.5	127.7	143.7
125°	1.5	37.0	84.9	122.7	137.9
127.5°	1.5	34.8	82.0	117.6	131.4
130°	1.5	33.4	78.4	111.8	125.6
132.5°	1.5	31.2	74.8	106.0	119.0
135°	1.5	29.0	71.1	100.9	113.2
137.5°	1.5	26.1	66.8	95.1	106.7
140°	1.5	23.9	61.0	89.3	100.2
142.5°	1.5	22.5	55.2	82.7	92.9
145°	1.5	21.0	49.4	76.2	85.6
147.5°	1.5	19.6	44.3	69.7	78.4
150°	1.5	17.4	39.2	63.9	71.1
152.5°	2.2	16.0	34.8	56.6	63.9
155°	2.2	14.5	30.5	48.6	56.6
157.5°	2.2	13.1	26.1	40.6	49.4
160°	2.2	11.6	22.5	33.4	42.1
162.5°	2.2	10.9	19.6	27.6	35.6
165°	2.2	9.4	16.7	22.5	29.0
167.5°	2.2	7.3	13.8	17.4	23.9
170°	2.2	5.8	10.9	12.3	18.1
172.5°	2.2	4.4	8.0	8.7	9.4
175°	2.2	3.6	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)