

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: P565812

Luminaire Tested: **2SNX-47HL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565812
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-L840-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

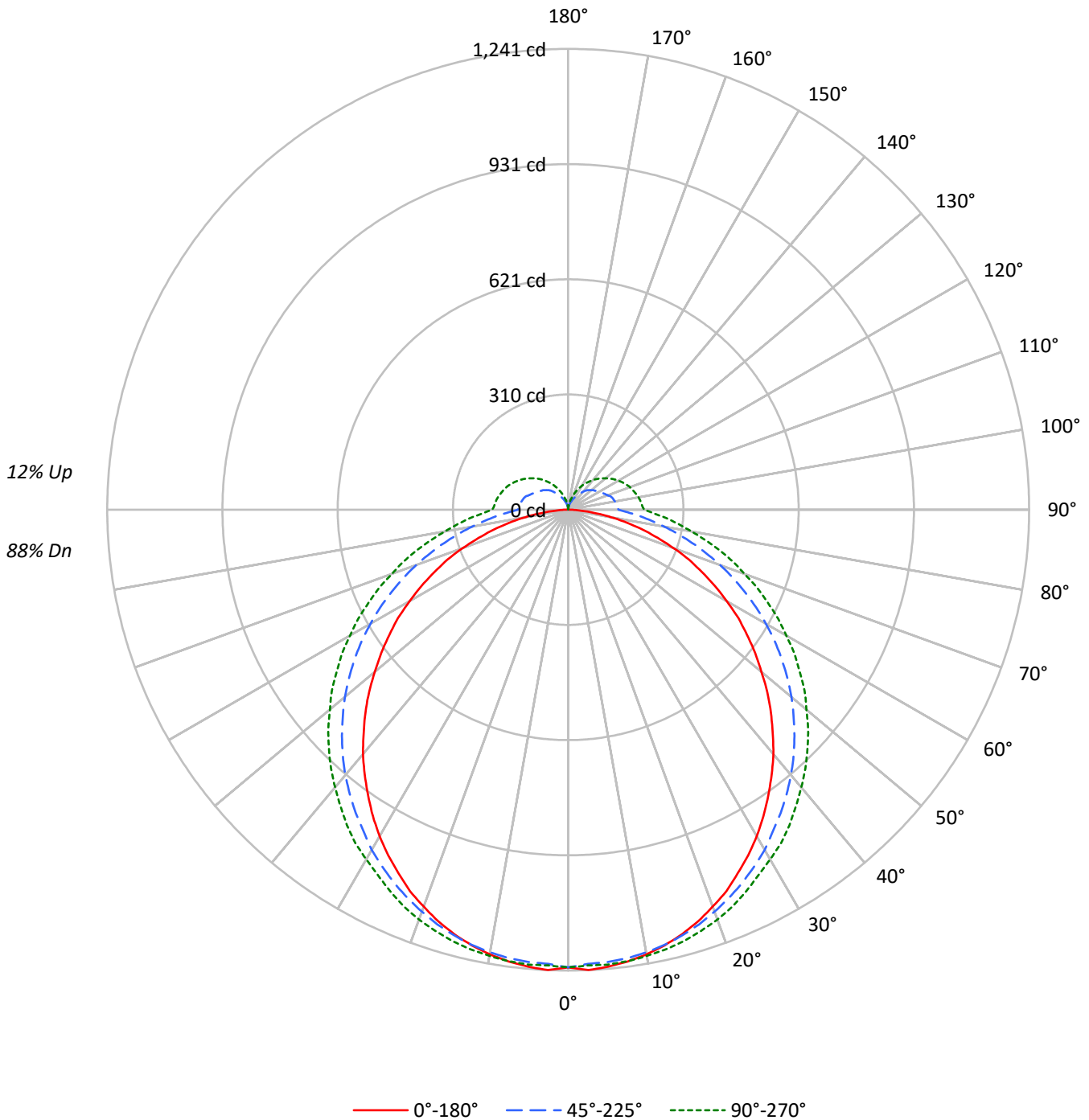
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4437.0 lumens
Efficiency: N/A
Efficacy: 131.7 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: P565812
CATALOG NUMBER: 2SNX-47HL-LW-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P565812

CATALOG NUMBER: 2SNX-47HL-LW-UNV-L840-CD

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°	26531	26531	26531
5°	26506	25247	25103
10°	26190	24197	23870
15°	25807	23159	22744
20°	25290	22120	21657
25°	24705	21112	20543
30°	24075	20129	19516
35°	23319	19105	18596
40°	22573	18147	17596
45°	21696	17141	16641
50°	20695	16107	15627
55°	19699	14978	14624
60°	18553	13795	13544
65°	17174	12512	12426
70°	15447	11133	11214
75°	13114	9632	10056
80°	9976	8133	8728
85°	5769	6698	7619



TEST NUMBER: P565812

CATALOG NUMBER: 2SNX-47HL-LW-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	2.6
10°-20°	336.6	7.6
20°-30°	512.0	11.5
30°-40°	622.5	14.0
40°-50°	658.6	14.8
50°-60°	617.4	13.9
60°-70°	507.9	11.4
70°-80°	351.4	7.9
80°-90°	195.4	4.4
90°-100°	128.7	2.9
100°-110°	115.4	2.6
110°-120°	95.6	2.2
120°-130°	73.9	1.7
130°-140°	52.3	1.2
140°-150°	31.5	0.7
150°-160°	15.2	0.3
160°-170°	5.0	0.1
170°-180°	0.6	0.0
0°-30°	965.6	21.8
0°-40°	1588.1	35.8
0°-60°	2864.1	64.6
0°-90°	3918.8	88.3
90°-120°	339.7	7.7
90°-150°	497.4	11.2
90°-180°	518.0	11.7
0°-180°	4437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1236	1233	1222	1232	1229	117
15°	1184	1188	1187	1203	1203	334
25°	1080	1096	1109	1133	1134	498
35°	939	964	997	1029	1038	588
45°	772	812	862	900	911	595
55°	587	640	701	745	761	526
65°	397	454	525	577	593	394
75°	207	267	345	400	422	219
85°	46	113	192	245	266	52
90°	1	64	135	186	204	3
95°	1	61	131	180	198	1
105°	1	52	123	169	185	1
115°	2	46	104	150	167	1
125°	2	39	89	128	144	1
135°	2	30	74	106	118	1
145°	2	22	52	80	90	1
155°	2	15	32	51	59	1
165°	2	10	18	24	30	1
175°	2	4	5	5	3	0
180°	2	2	2	2	2	



TEST NUMBER: P565812

CATALOG NUMBER: 2SNX-47HL-LW-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1232.4	1232.4	1232.4	1232.4	1232.4
2.5°	1240.8	1237.0	1224.1	1232.4	1228.6
5°	1235.5	1233.2	1222.5	1232.4	1229.4
7.5°	1227.1	1226.3	1218.0	1229.4	1226.3
10°	1215.7	1217.2	1210.4	1222.5	1220.3
12.5°	1201.3	1203.6	1200.5	1214.2	1212.7
15°	1183.8	1187.6	1186.8	1202.8	1202.8
17.5°	1162.5	1167.8	1170.9	1189.1	1189.1
20°	1137.4	1145.8	1151.9	1171.6	1174.7
22.5°	1112.4	1122.3	1131.4	1151.9	1156.4
25°	1080.5	1095.7	1108.6	1132.9	1133.7
27.5°	1049.3	1066.0	1083.5	1107.1	1109.3
30°	1015.1	1036.4	1057.7	1080.5	1087.3
32.5°	978.6	1002.2	1025.8	1056.1	1065.3
35°	939.1	964.2	996.9	1028.8	1037.9
37.5°	899.6	927.7	965.7	998.4	1006.8
40°	859.4	890.5	933.1	966.5	976.4
42.5°	814.5	852.5	898.1	933.8	945.2
45°	772.0	812.2	861.6	900.4	911.0
47.5°	727.1	769.7	822.9	863.9	876.1
50°	679.3	727.9	784.9	825.9	837.3
52.5°	634.4	683.8	743.9	786.4	802.4
55°	587.3	639.8	701.3	745.4	760.6
57.5°	543.3	593.4	659.5	703.6	722.6
60°	493.1	548.6	614.7	662.6	677.8
62.5°	446.0	502.2	570.6	620.0	637.5
65°	397.4	454.4	525.0	576.7	592.7
67.5°	351.8	408.0	480.2	531.1	551.6
70°	301.6	360.9	434.6	487.0	504.5
72.5°	252.3	313.8	389.0	445.3	465.0
75°	206.7	266.7	345.0	399.7	421.7
77.5°	162.6	223.4	302.4	358.6	377.6
80°	118.5	182.4	262.9	318.4	336.6
82.5°	78.3	145.1	224.9	280.4	300.1
85°	45.6	113.2	191.5	244.7	265.9
87.5°	19.8	85.9	160.3	212.7	230.2
90°	0.8	63.8	135.2	186.2	204.4
92.5°	0.8	62.3	132.2	182.4	199.8
95°	0.8	60.8	131.4	180.1	197.6
97.5°	0.8	60.0	129.9	178.6	195.3
100°	0.8	57.7	127.6	175.5	192.2
102.5°	0.8	54.7	125.4	172.5	188.4
105°	0.8	52.4	123.1	169.4	184.6
107.5°	0.8	50.1	119.3	165.6	180.8
110°	0.8	47.9	113.2	161.8	177.0



TEST NUMBER: P565812

CATALOG NUMBER: 2SNX-47HL-LW-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	47.1	108.7	156.5	172.5
115°	1.5	45.6	104.1	150.4	167.2
117.5°	1.5	44.8	100.3	144.4	161.8
120°	1.5	42.5	96.5	139.0	155.8
122.5°	1.5	40.3	92.7	133.7	150.4
125°	1.5	38.8	88.9	128.4	144.4
127.5°	1.5	36.5	85.9	123.1	137.5
130°	1.5	35.0	82.1	117.0	131.4
132.5°	1.5	32.7	78.3	110.9	124.6
135°	1.5	30.4	74.5	105.6	118.5
137.5°	1.5	27.4	69.9	99.5	111.7
140°	1.5	25.1	63.8	93.5	104.9
142.5°	1.5	23.6	57.7	86.6	97.3
145°	1.5	22.0	51.7	79.8	89.7
147.5°	1.5	20.5	46.3	72.9	82.1
150°	1.5	18.2	41.0	66.9	74.5
152.5°	2.3	16.7	36.5	59.3	66.9
155°	2.3	15.2	31.9	50.9	59.3
157.5°	2.3	13.7	27.4	42.5	51.7
160°	2.3	12.2	23.6	35.0	44.1
162.5°	2.3	11.4	20.5	28.9	37.2
165°	2.3	9.9	17.5	23.6	30.4
167.5°	2.3	7.6	14.4	18.2	25.1
170°	2.3	6.1	11.4	12.9	19.0
172.5°	2.3	4.6	8.4	9.1	9.9
175°	2.3	3.8	5.3	5.3	3.0
177.5°	2.3	3.0	3.0	3.0	1.5
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)