

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: P565821

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565821
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-SLW-UNV-L850-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

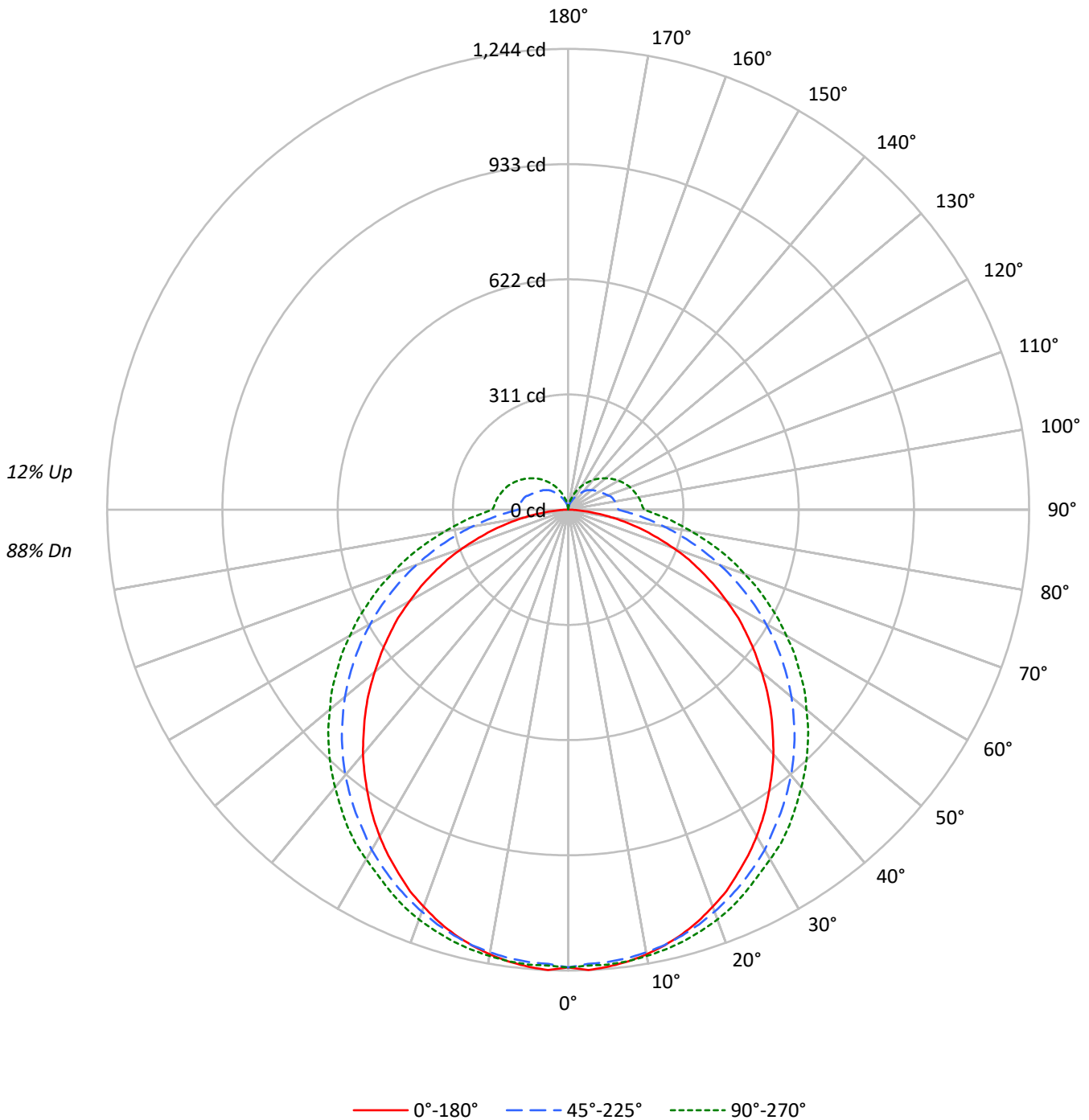
Lumens per Lamp: N/A
Luminaire Lumens: 4448.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): 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: P565821

CATALOG NUMBER: 2SNX-47HL-SLW-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P565821

CATALOG NUMBER: 2SNX-47HL-SLW-UNV-L850-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°	26598	26598	26598
5°	26667	25887	25881
10°	26447	25345	25262
15°	26157	24765	24679
20°	25735	24134	24070
25°	25239	23503	23377
30°	24704	22870	22737
35°	24045	22166	22187
40°	23396	21518	21514
45°	22623	20804	20875
50°	21733	20043	20143
55°	20863	19162	19414
60°	19855	18204	18572
65°	18636	17116	17677
70°	17086	15892	16650
75°	14923	14485	15703
80°	11922	13078	14509
85°	7656	11795	13734



TEST NUMBER: P565821

CATALOG NUMBER: 2SNX-47HL-SLW-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	2.6
10°-20°	337.4	7.6
20°-30°	513.3	11.5
30°-40°	624.1	14.0
40°-50°	660.3	14.8
50°-60°	618.9	13.9
60°-70°	509.1	11.4
70°-80°	352.3	7.9
80°-90°	195.9	4.4
90°-100°	129.1	2.9
100°-110°	115.7	2.6
110°-120°	95.8	2.2
120°-130°	74.1	1.7
130°-140°	52.4	1.2
140°-150°	31.6	0.7
150°-160°	15.2	0.3
160°-170°	5.0	0.1
170°-180°	0.6	0.0
0°-30°	967.9	21.8
0°-40°	1592.0	35.8
0°-60°	2871.2	64.6
0°-90°	3928.6	88.3
90°-120°	340.6	7.7
90°-150°	498.7	11.2
90°-180°	519.0	11.7
0°-180°	4448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1238	1236	1226	1236	1232	118
15°	1187	1190	1190	1206	1206	334
25°	1083	1098	1111	1136	1136	499
35°	942	967	999	1031	1040	589
45°	774	814	864	903	913	596
55°	589	641	703	747	762	527
65°	398	456	526	578	594	395
75°	207	267	346	401	423	220
85°	46	114	192	245	267	53
90°	1	64	136	187	205	3
95°	1	61	132	180	198	1
105°	1	53	123	170	185	1
115°	2	46	104	151	168	1
125°	2	39	89	129	145	1
135°	2	30	75	106	119	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: P565821

CATALOG NUMBER: 2SNX-47HL-SLW-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1235.5	1235.5	1235.5	1235.5	1235.5
2.5°	1243.9	1240.1	1227.1	1235.5	1231.7
5°	1238.5	1236.2	1225.6	1235.5	1232.4
7.5°	1230.2	1229.4	1221.0	1232.4	1229.4
10°	1218.7	1220.2	1213.4	1225.6	1223.3
12.5°	1204.3	1206.5	1203.5	1217.2	1215.7
15°	1186.7	1190.5	1189.8	1205.8	1205.8
17.5°	1165.4	1170.7	1173.8	1192.1	1192.1
20°	1140.3	1148.6	1154.7	1174.5	1177.6
22.5°	1115.1	1125.0	1134.2	1154.7	1159.3
25°	1083.1	1098.4	1111.3	1135.7	1136.5
27.5°	1051.9	1068.7	1086.2	1109.8	1112.1
30°	1017.6	1039.0	1060.3	1083.1	1090.0
32.5°	981.1	1004.7	1028.3	1058.8	1067.9
35°	941.5	966.6	999.4	1031.3	1040.5
37.5°	901.9	930.0	968.1	1000.9	1009.3
40°	861.5	892.7	935.4	968.9	978.8
42.5°	816.5	854.6	900.3	936.1	947.6
45°	773.9	814.3	863.8	902.6	913.3
47.5°	728.9	771.6	824.9	866.1	878.2
50°	681.0	729.7	786.8	828.0	839.4
52.5°	636.0	685.5	745.7	788.4	804.4
55°	588.8	641.4	703.1	747.2	762.5
57.5°	544.6	594.9	661.2	705.3	724.4
60°	494.3	549.9	616.2	664.2	679.4
62.5°	447.1	503.5	572.0	621.5	639.1
65°	398.4	455.5	526.3	578.1	594.1
67.5°	352.7	409.0	481.4	532.4	553.0
70°	302.4	361.8	435.7	488.3	505.8
72.5°	252.9	314.6	390.0	446.4	466.2
75°	207.2	267.4	345.8	400.7	422.7
77.5°	163.0	223.9	303.2	359.5	378.6
80°	118.8	182.8	263.5	319.2	337.4
82.5°	78.5	145.5	225.5	281.1	300.9
85°	45.7	113.5	191.9	245.3	266.6
87.5°	19.8	86.1	160.7	213.3	230.8
90°	0.8	64.0	135.6	186.6	204.9
92.5°	0.8	62.5	132.5	182.8	200.3
95°	0.8	60.9	131.8	180.5	198.0
97.5°	0.8	60.2	130.3	179.0	195.8
100°	0.8	57.9	128.0	176.0	192.7
102.5°	0.8	54.8	125.7	172.9	188.9
105°	0.8	52.6	123.4	169.9	185.1
107.5°	0.8	50.3	119.6	166.1	181.3
110°	0.8	48.0	113.5	162.2	177.5



TEST NUMBER: P565821

CATALOG NUMBER: 2SNX-47HL-SLW-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	47.2	108.9	156.9	172.9
115°	1.5	45.7	104.4	150.8	167.6
117.5°	1.5	44.9	100.5	144.7	162.2
120°	1.5	42.7	96.7	139.4	156.1
122.5°	1.5	40.4	92.9	134.1	150.8
125°	1.5	38.8	89.1	128.7	144.7
127.5°	1.5	36.6	86.1	123.4	137.9
130°	1.5	35.0	82.3	117.3	131.8
132.5°	1.5	32.8	78.5	111.2	124.9
135°	1.5	30.5	74.6	105.9	118.8
137.5°	1.5	27.4	70.1	99.8	112.0
140°	1.5	25.1	64.0	93.7	105.1
142.5°	1.5	23.6	57.9	86.8	97.5
145°	1.5	22.1	51.8	80.0	89.9
147.5°	1.5	20.6	46.5	73.1	82.3
150°	1.5	18.3	41.1	67.0	74.6
152.5°	2.3	16.8	36.6	59.4	67.0
155°	2.3	15.2	32.0	51.0	59.4
157.5°	2.3	13.7	27.4	42.7	51.8
160°	2.3	12.2	23.6	35.0	44.2
162.5°	2.3	11.4	20.6	28.9	37.3
165°	2.3	9.9	17.5	23.6	30.5
167.5°	2.3	7.6	14.5	18.3	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)