

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: P565809

Luminaire Tested: **2SNX-47HL-LN-UNV-L950-CD**

Issue Date: 9/15/2022



**Test Information**

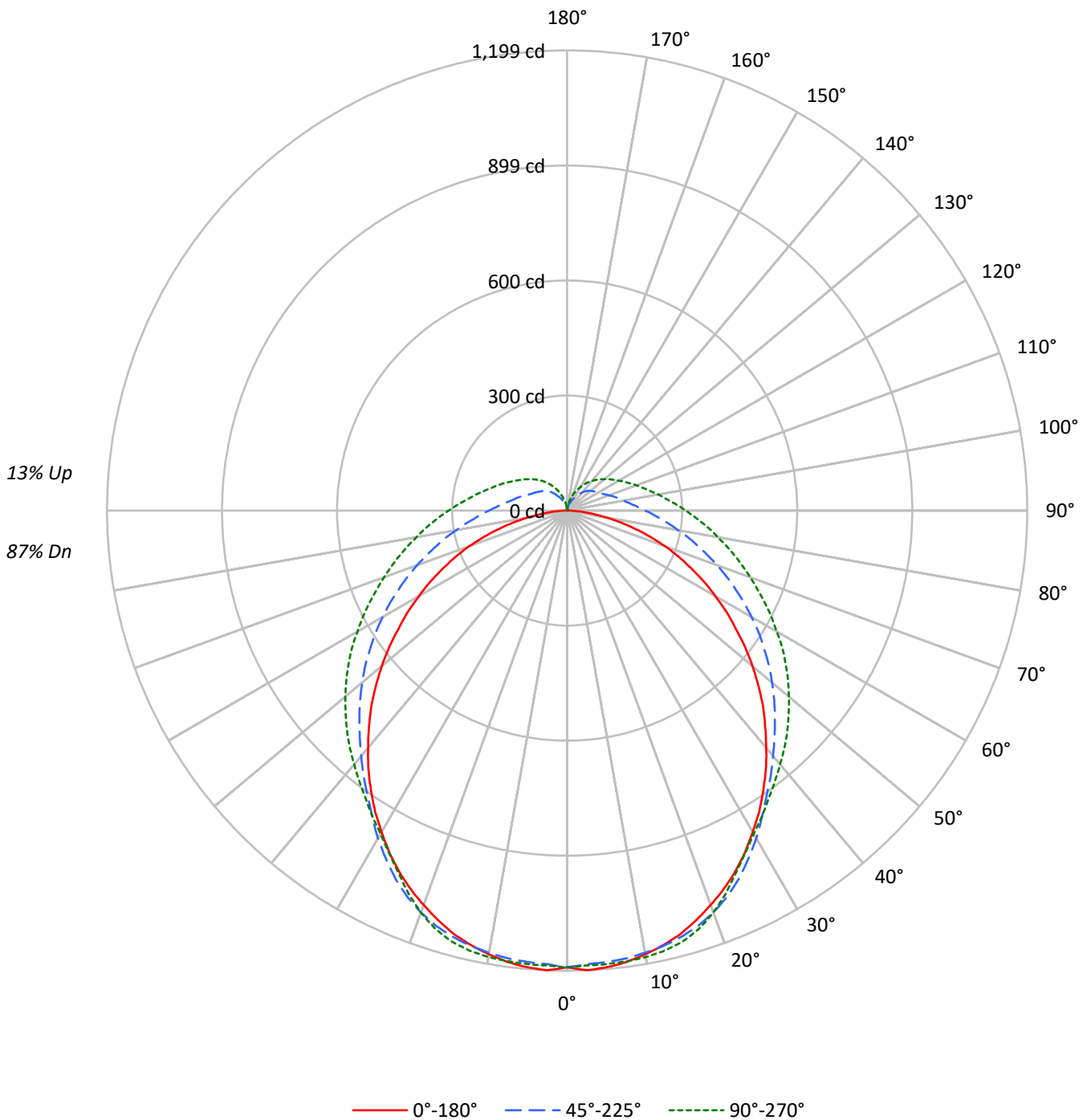
Test Method: LM-79-08  
Report Number: P565809  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNX-47HL-LN-UNV-L950-CD  
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4296.0 lumens  
Efficiency: N/A  
Efficacy: 127.5 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 (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: P565809  
CATALOG NUMBER: 2SNX-47HL-LN-UNV-L950-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P565809

CATALOG NUMBER: 2SNX-47HL-LN-UNV-L950-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	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°	25620	25620	25620
5°	25624	24382	24225
10°	25292	23383	23107
15°	24896	22441	21980
20°	24323	21398	20543
25°	23713	20152	18859
30°	22939	18767	17452
35°	22118	17363	16403
40°	21197	16233	15554
45°	20285	15229	14820
50°	19215	14303	14081
55°	17978	13378	13359
60°	16769	12455	12603
65°	15424	11526	11910
70°	13875	10654	11283
75°	11598	9799	10769
80°	8705	9057	10331
85°	5250	8510	10081



TEST NUMBER: P565809

CATALOG NUMBER: 2SNX-47HL-LN-UNV-L950-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.1	2.6
10°-20°	325.0	7.6
20°-30°	484.0	11.3
30°-40°	571.1	13.3
40°-50°	595.6	13.9
50°-60°	559.7	13.0
60°-70°	472.7	11.0
70°-80°	357.1	8.3
80°-90°	246.2	5.7
90°-100°	172.3	4.0
100°-110°	128.6	3.0
110°-120°	96.9	2.3
120°-130°	72.3	1.7
130°-140°	50.7	1.2
140°-150°	30.7	0.7
150°-160°	14.7	0.3
160°-170°	4.7	0.1
170°-180°	0.6	0.0
0°-30°	922.1	21.5
0°-40°	1493.2	34.8
0°-60°	2648.6	61.7
0°-90°	3724.6	86.7
90°-120°	397.8	9.3
90°-150°	551.5	12.8
90°-180°	571.0	13.3
0°-180°	4296.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1194	1192	1181	1189	1186	113
15°	1142	1147	1150	1165	1162	322
25°	1037	1058	1058	1049	1041	477
35°	891	924	906	913	916	557
45°	722	758	766	797	811	556
55°	536	582	626	677	695	481
65°	357	414	484	547	568	354
75°	183	254	351	425	452	195
85°	42	130	243	323	352	47
90°	1	92	203	281	309	3
95°	1	72	172	246	272	1
105°	2	52	133	192	214	1
115°	2	44	103	153	173	2
125°	2	38	87	125	141	2
135°	2	29	72	102	114	2
145°	3	21	50	78	87	2
155°	3	14	31	50	58	1
165°	4	9	16	22	29	1
175°	4	4	4	4	2	0
180°	2	2	2	2	2	



TEST NUMBER: P565809

CATALOG NUMBER: 2SNX-47HL-LN-UNV-L950-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1190.1	1190.1	1190.1	1190.1	1190.1
2.5°	1198.8	1195.9	1182.8	1190.1	1186.4
5°	1194.4	1192.3	1180.6	1189.3	1186.4
7.5°	1186.4	1185.7	1177.0	1187.2	1184.2
10°	1174.0	1176.2	1169.7	1183.5	1181.3
12.5°	1159.5	1163.9	1161.7	1177.0	1174.8
15°	1142.0	1147.1	1150.0	1164.6	1162.4
17.5°	1118.7	1128.2	1134.7	1146.4	1142.7
20°	1093.9	1107.0	1114.3	1120.2	1114.3
22.5°	1067.0	1084.5	1088.8	1085.9	1080.1
25°	1037.1	1058.2	1058.2	1048.8	1040.8
27.5°	1003.6	1029.8	1022.6	1011.6	1005.1
30°	967.2	998.5	986.1	973.8	972.3
32.5°	930.8	963.6	945.4	942.4	944.6
35°	890.7	923.5	906.0	913.3	915.5
37.5°	850.7	883.4	871.8	882.7	889.3
40°	807.0	841.9	834.7	854.3	863.1
42.5°	764.0	800.4	799.7	825.2	838.3
45°	721.8	757.5	765.5	796.8	811.3
47.5°	675.9	712.3	732.0	768.4	782.9
50°	630.7	670.1	697.0	737.8	754.5
52.5°	584.1	625.6	662.8	707.9	725.4
55°	536.0	581.9	626.4	676.6	694.8
57.5°	493.1	539.7	592.1	643.8	665.0
60°	445.7	497.4	555.0	609.6	630.7
62.5°	402.8	455.9	520.0	577.6	600.1
65°	356.9	413.7	483.6	547.0	568.1
67.5°	314.6	372.9	449.4	513.5	536.8
70°	270.9	332.8	415.9	483.6	507.6
72.5°	225.8	291.3	382.4	454.5	479.2
75°	182.8	253.5	351.0	424.6	451.6
77.5°	142.8	217.0	322.6	398.4	424.6
80°	103.4	184.3	292.8	371.4	398.4
82.5°	68.5	155.9	268.7	347.4	375.8
85°	41.5	130.4	243.3	323.4	351.8
87.5°	18.9	109.2	222.9	302.3	329.9
90°	0.7	92.5	203.2	281.1	308.8
92.5°	0.7	80.8	187.2	262.9	289.9
95°	0.7	72.1	171.9	246.2	271.7
97.5°	0.7	66.3	160.2	230.1	254.9
100°	0.7	60.5	148.6	215.6	241.1
102.5°	1.5	55.4	139.8	202.5	226.5
105°	1.5	51.7	132.6	192.3	214.1
107.5°	1.5	49.5	124.5	182.1	202.5
110°	1.5	47.3	115.8	171.9	192.3



TEST NUMBER: P565809

CATALOG NUMBER: 2SNX-47HL-LN-UNV-L950-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	45.9	109.2	163.1	182.8
115°	1.5	44.4	102.7	152.9	172.6
117.5°	1.5	43.7	99.1	144.9	163.9
120°	2.2	41.5	94.7	137.7	155.9
122.5°	2.2	39.3	90.3	131.8	147.8
125°	2.2	37.9	86.7	125.3	141.3
127.5°	2.2	35.7	83.0	119.4	134.0
130°	2.2	33.5	80.1	113.6	127.5
132.5°	2.2	31.3	76.5	107.8	120.9
135°	2.2	29.1	72.1	102.0	114.3
137.5°	2.2	26.9	67.7	96.1	107.8
140°	2.2	24.8	61.9	90.3	101.2
142.5°	2.2	22.6	56.1	84.5	94.0
145°	2.9	21.1	50.3	77.9	87.4
147.5°	2.9	18.9	44.4	71.4	79.4
150°	2.9	17.5	40.1	64.8	72.1
152.5°	2.9	15.3	35.7	57.5	64.8
155°	2.9	13.8	30.6	49.5	57.5
157.5°	2.9	12.4	26.2	41.5	50.3
160°	2.9	11.7	22.6	34.2	43.0
162.5°	3.6	10.2	18.9	27.7	35.7
165°	3.6	8.7	16.0	21.8	29.1
167.5°	3.6	7.3	13.1	16.8	22.6
170°	3.6	5.8	10.2	11.7	17.5
172.5°	3.6	4.4	7.3	8.0	8.7
175°	3.6	3.6	4.4	4.4	2.2
177.5°	3.6	3.6	2.9	2.2	0.7
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)