

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: P565817

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

Issue Date: 9/15/2022



**Test Information**

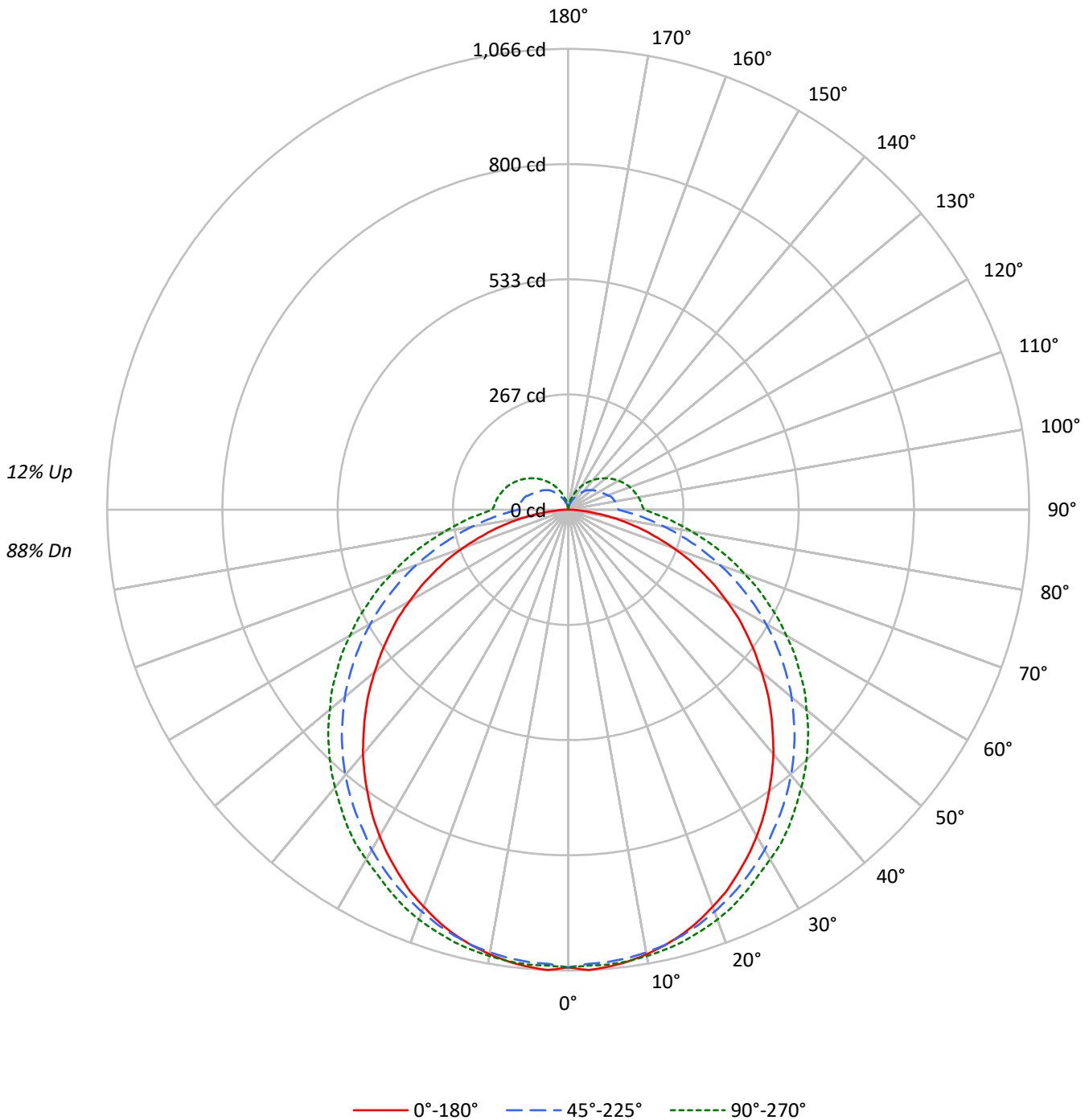
Test Method: LM-79-08  
Report Number: P565817  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNX-47HL-LW-UNV-L950-CD  
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3812.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 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<sub>in</sub>): 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	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°	22794	22794	22794
5°	22771	21691	21567
10°	22502	20788	20507
15°	22171	19899	19541
20°	21728	19003	18606
25°	21225	18137	17649
30°	20684	17294	16766
35°	20034	16414	15976
40°	19392	15590	15116
45°	18638	14728	14297
50°	17780	13837	13426
55°	16925	12867	12563
60°	15942	11851	11636
65°	14754	10751	10675
70°	13275	9565	9636
75°	11268	8275	8639
80°	8570	6988	7499
85°	4959	5754	6547



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.5	2.6
10°-20°	289.2	7.6
20°-30°	439.9	11.5
30°-40°	534.9	14.0
40°-50°	565.9	14.8
50°-60°	530.4	13.9
60°-70°	436.4	11.4
70°-80°	301.9	7.9
80°-90°	167.9	4.4
90°-100°	110.6	2.9
100°-110°	99.2	2.6
110°-120°	82.1	2.2
120°-130°	63.5	1.7
130°-140°	44.9	1.2
140°-150°	27.1	0.7
150°-160°	13.0	0.3
160°-170°	4.3	0.1
170°-180°	0.5	0.0
0°-30°	829.5	21.8
0°-40°	1364.4	35.8
0°-60°	2460.7	64.6
0°-90°	3366.8	88.3
90°-120°	291.9	7.7
90°-150°	427.4	11.2
90°-180°	445.0	11.7
0°-180°	3812.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1061	1060	1050	1059	1056	101
15°	1017	1020	1020	1033	1033	287
25°	928	941	952	973	974	428
35°	807	828	856	884	892	505
45°	663	698	740	774	783	511
55°	505	550	602	640	653	452
65°	341	390	451	496	509	339
75°	178	229	296	343	362	188
85°	39	97	164	210	228	45
90°	1	55	116	160	176	3
95°	1	52	113	155	170	1
105°	1	45	106	146	159	1
115°	1	39	89	129	144	1
125°	1	33	76	110	124	1
135°	1	26	64	91	102	1
145°	1	19	44	68	77	1
155°	2	13	27	44	51	1
165°	2	8	15	20	26	1
175°	2	3	5	5	3	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1058.8	1058.8	1058.8	1058.8	1058.8
2.5°	1066.0	1062.7	1051.6	1058.8	1055.6
5°	1061.4	1059.5	1050.3	1058.8	1056.2
7.5°	1054.3	1053.6	1046.4	1056.2	1053.6
10°	1044.5	1045.8	1039.9	1050.3	1048.4
12.5°	1032.1	1034.0	1031.4	1043.2	1041.9
15°	1017.0	1020.3	1019.7	1033.4	1033.4
17.5°	998.8	1003.3	1006.0	1021.6	1021.6
20°	977.2	984.4	989.6	1006.6	1009.2
22.5°	955.7	964.2	972.0	989.6	993.5
25°	928.3	941.3	952.4	973.3	974.0
27.5°	901.5	915.9	930.9	951.1	953.1
30°	872.1	890.4	908.7	928.3	934.1
32.5°	840.8	861.0	881.3	907.4	915.2
35°	806.8	828.4	856.5	883.9	891.7
37.5°	772.9	797.1	829.7	857.8	864.9
40°	738.3	765.1	801.6	830.3	838.8
42.5°	699.8	732.4	771.6	802.3	812.1
45°	663.2	697.8	740.3	773.6	782.7
47.5°	624.7	661.3	707.0	742.2	752.7
50°	583.6	625.4	674.3	709.6	719.4
52.5°	545.1	587.5	639.1	675.6	689.3
55°	504.6	549.6	602.5	640.4	653.4
57.5°	466.7	509.8	566.6	604.5	620.8
60°	423.7	471.3	528.1	569.2	582.3
62.5°	383.2	431.5	490.2	532.7	547.7
65°	341.4	390.4	451.1	495.5	509.2
67.5°	302.2	350.5	412.6	456.3	473.9
70°	259.2	310.1	373.4	418.4	433.5
72.5°	216.7	269.6	334.2	382.5	399.5
75°	177.6	229.1	296.4	343.4	362.3
77.5°	139.7	191.9	259.8	308.1	324.4
80°	101.8	156.7	225.9	273.5	289.2
82.5°	67.2	124.7	193.2	240.9	257.9
85°	39.2	97.3	164.5	210.2	228.5
87.5°	17.0	73.8	137.7	182.8	197.8
90°	0.7	54.8	116.2	159.9	175.6
92.5°	0.7	53.5	113.6	156.7	171.7
95°	0.7	52.2	112.9	154.7	169.7
97.5°	0.7	51.6	111.6	153.4	167.8
100°	0.7	49.6	109.7	150.8	165.2
102.5°	0.7	47.0	107.7	148.2	161.9
105°	0.7	45.0	105.8	145.6	158.6
107.5°	0.7	43.1	102.5	142.3	155.4
110°	0.7	41.1	97.3	139.0	152.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	40.5	93.3	134.5	148.2
115°	1.3	39.2	89.4	129.3	143.6
117.5°	1.3	38.5	86.2	124.0	139.0
120°	1.3	36.6	82.9	119.5	133.8
122.5°	1.3	34.6	79.6	114.9	129.3
125°	1.3	33.3	76.4	110.3	124.0
127.5°	1.3	31.3	73.8	105.8	118.2
130°	1.3	30.0	70.5	100.5	112.9
132.5°	1.3	28.1	67.2	95.3	107.1
135°	1.3	26.1	64.0	90.7	101.8
137.5°	1.3	23.5	60.1	85.5	96.0
140°	1.3	21.5	54.8	80.3	90.1
142.5°	1.3	20.2	49.6	74.4	83.6
145°	1.3	18.9	44.4	68.5	77.0
147.5°	1.3	17.6	39.8	62.7	70.5
150°	1.3	15.7	35.3	57.4	64.0
152.5°	2.0	14.4	31.3	50.9	57.4
155°	2.0	13.1	27.4	43.7	50.9
157.5°	2.0	11.8	23.5	36.6	44.4
160°	2.0	10.4	20.2	30.0	37.9
162.5°	2.0	9.8	17.6	24.8	32.0
165°	2.0	8.5	15.0	20.2	26.1
167.5°	2.0	6.5	12.4	15.7	21.5
170°	2.0	5.2	9.8	11.1	16.3
172.5°	2.0	3.9	7.2	7.8	8.5
175°	2.0	3.3	4.6	4.6	2.6
177.5°	2.0	2.6	2.6	2.6	1.3
180°	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)