

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: P565816

Luminaire Tested: **2SNX-47HL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565816  
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-L940-CD  
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

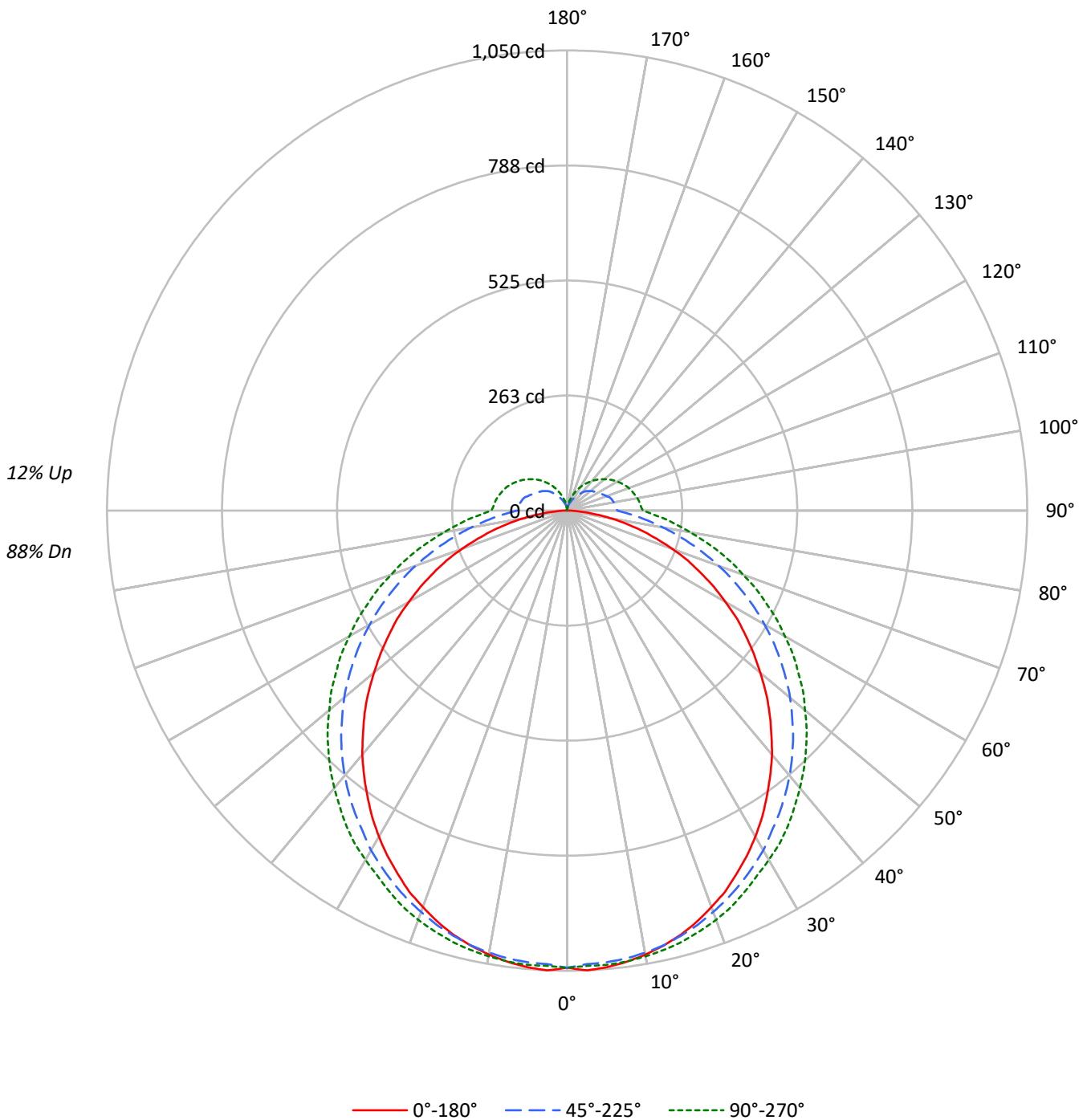
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3755.0 lumens  
Efficiency: N/A  
Efficacy: 111.4 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 (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

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CATALOG NUMBER: 2SNX-47HL-LW-UNV-L940-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°	22454	22454	22454
5°	22432	21366	21244
10°	22164	20476	20200
15°	21840	19600	19248
20°	21403	18719	18327
25°	20908	17867	17384
30°	20375	17035	16517
35°	19736	16169	15738
40°	19103	15356	14891
45°	18360	14507	14084
50°	17515	13630	13225
55°	16673	12675	12376
60°	15701	11674	11462
65°	14534	10589	10516
70°	13076	9422	9491
75°	11097	8149	8511
80°	8444	6883	7388
85°	4883	5666	6450



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.0	2.6
10°-20°	284.8	7.6
20°-30°	433.3	11.5
30°-40°	526.9	14.0
40°-50°	557.4	14.8
50°-60°	522.5	13.9
60°-70°	429.8	11.4
70°-80°	297.4	7.9
80°-90°	165.4	4.4
90°-100°	108.9	2.9
100°-110°	97.7	2.6
110°-120°	80.9	2.2
120°-130°	62.5	1.7
130°-140°	44.3	1.2
140°-150°	26.7	0.7
150°-160°	12.8	0.3
160°-170°	4.2	0.1
170°-180°	0.5	0.0
0°-30°	817.1	21.8
0°-40°	1344.0	35.8
0°-60°	2423.9	64.6
0°-90°	3316.5	88.3
90°-120°	287.5	7.7
90°-150°	421.0	11.2
90°-180°	439.0	11.7
0°-180°	3755.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1046	1044	1035	1043	1040	99
15°	1002	1005	1004	1018	1018	282
25°	914	927	938	959	959	421
35°	795	816	844	871	878	497
45°	653	687	729	762	771	504
55°	497	541	594	631	644	445
65°	336	384	444	488	502	333
75°	175	226	292	338	357	186
85°	39	96	162	207	225	44
90°	1	54	114	158	173	3
95°	1	51	111	152	167	0
105°	1	44	104	143	156	1
115°	1	39	88	127	142	1
125°	1	33	75	109	122	1
135°	1	26	63	89	100	1
145°	1	19	44	68	76	1
155°	2	13	27	43	50	1
165°	2	8	15	20	26	1
175°	2	3	4	4	3	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1043.0	1043.0	1043.0	1043.0	1043.0
2.5°	1050.1	1046.9	1035.9	1043.0	1039.8
5°	1045.6	1043.6	1034.6	1043.0	1040.4
7.5°	1038.5	1037.8	1030.8	1040.4	1037.8
10°	1028.8	1030.1	1024.3	1034.6	1032.7
12.5°	1016.6	1018.6	1016.0	1027.6	1026.3
15°	1001.8	1005.1	1004.4	1017.9	1017.9
17.5°	983.8	988.3	990.9	1006.3	1006.3
20°	962.6	969.7	974.8	991.6	994.1
22.5°	941.4	949.8	957.5	974.8	978.7
25°	914.4	927.2	938.2	958.8	959.4
27.5°	888.0	902.2	917.0	936.9	938.8
30°	859.1	877.1	895.1	914.4	920.2
32.5°	828.2	848.2	868.1	893.8	901.5
35°	794.8	816.0	843.7	870.7	878.4
37.5°	761.3	785.1	817.3	844.9	852.0
40°	727.3	753.6	789.6	817.9	826.3
42.5°	689.3	721.5	760.1	790.3	799.9
45°	653.3	687.4	729.2	762.0	771.0
47.5°	615.4	651.4	696.4	731.1	741.4
50°	574.9	616.0	664.2	699.0	708.6
52.5°	536.9	578.7	629.5	665.5	679.0
55°	497.1	541.4	593.5	630.8	643.7
57.5°	459.8	502.2	558.1	595.4	611.5
60°	417.3	464.3	520.2	560.7	573.6
62.5°	377.5	425.0	482.9	524.7	539.5
65°	336.3	384.5	444.3	488.1	501.6
67.5°	297.7	345.3	406.4	449.5	466.8
70°	255.3	305.4	367.8	412.2	427.0
72.5°	213.5	265.6	329.2	376.8	393.5
75°	174.9	225.7	291.9	338.2	356.9
77.5°	137.6	189.1	255.9	303.5	319.6
80°	100.3	154.3	222.5	269.4	284.9
82.5°	66.2	122.8	190.3	237.3	254.0
85°	38.6	95.8	162.0	207.1	225.1
87.5°	16.7	72.7	135.7	180.0	194.8
90°	0.6	54.0	114.5	157.5	173.0
92.5°	0.6	52.7	111.9	154.3	169.1
95°	0.6	51.4	111.2	152.4	167.2
97.5°	0.6	50.8	110.0	151.1	165.3
100°	0.6	48.9	108.0	148.5	162.7
102.5°	0.6	46.3	106.1	146.0	159.5
105°	0.6	44.4	104.2	143.4	156.3
107.5°	0.6	42.4	101.0	140.2	153.0
110°	0.6	40.5	95.8	137.0	149.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	39.9	92.0	132.5	146.0
115°	1.3	38.6	88.1	127.3	141.5
117.5°	1.3	37.9	84.9	122.2	137.0
120°	1.3	36.0	81.7	117.7	131.8
122.5°	1.3	34.1	78.4	113.2	127.3
125°	1.3	32.8	75.2	108.7	122.2
127.5°	1.3	30.9	72.7	104.2	116.4
130°	1.3	29.6	69.4	99.0	111.2
132.5°	1.3	27.7	66.2	93.9	105.5
135°	1.3	25.7	63.0	89.4	100.3
137.5°	1.3	23.1	59.2	84.2	94.5
140°	1.3	21.2	54.0	79.1	88.7
142.5°	1.3	19.9	48.9	73.3	82.3
145°	1.3	18.6	43.7	67.5	75.9
147.5°	1.3	17.4	39.2	61.7	69.4
150°	1.3	15.4	34.7	56.6	63.0
152.5°	1.9	14.1	30.9	50.2	56.6
155°	1.9	12.9	27.0	43.1	50.2
157.5°	1.9	11.6	23.1	36.0	43.7
160°	1.9	10.3	19.9	29.6	37.3
162.5°	1.9	9.6	17.4	24.4	31.5
165°	1.9	8.4	14.8	19.9	25.7
167.5°	1.9	6.4	12.2	15.4	21.2
170°	1.9	5.1	9.6	10.9	16.1
172.5°	1.9	3.9	7.1	7.7	8.4
175°	1.9	3.2	4.5	4.5	2.6
177.5°	1.9	2.6	2.6	2.6	1.3
180°	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)