

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: P565792

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565792
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-FDL-UNV-L940-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

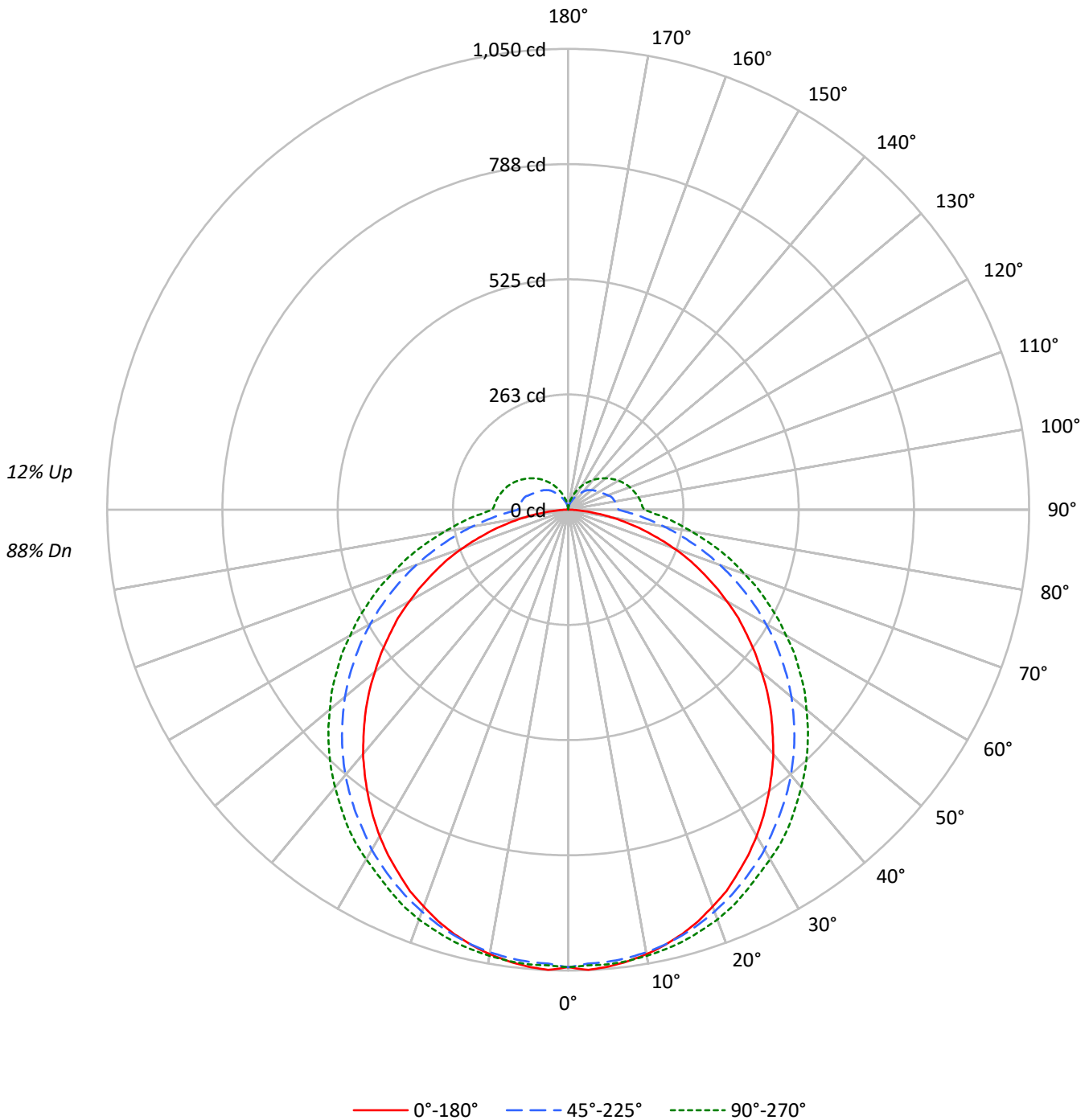
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3753.0 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: 0.04')
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

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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°	22441	22441	22441
5°	22541	22091	22149
10°	22396	21869	21920
15°	22192	21607	21706
20°	21875	21293	21461
25°	21499	20977	21135
30°	21090	20657	20855
35°	20577	20277	20661
40°	20077	19958	20362
45°	19475	19591	20109
50°	18778	19201	19788
55°	18107	18720	19503
60°	17333	18204	19154
65°	16388	17614	18812
70°	15187	16960	18422
75°	13490	16237	18292
80°	11121	15738	18145
85°	7701	15908	19122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	2.6
10°-20°	284.7	7.6
20°-30°	433.1	11.5
30°-40°	526.6	14.0
40°-50°	557.1	14.8
50°-60°	522.2	13.9
60°-70°	429.6	11.4
70°-80°	297.2	7.9
80°-90°	165.3	4.4
90°-100°	108.9	2.9
100°-110°	97.6	2.6
110°-120°	80.8	2.2
120°-130°	62.5	1.7
130°-140°	44.2	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°	816.7	21.8
0°-40°	1343.3	35.8
0°-60°	2422.6	64.6
0°-90°	3314.7	88.3
90°-120°	287.3	7.7
90°-150°	420.7	11.2
90°-180°	438.0	11.7
0°-180°	3753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1045	1043	1034	1042	1040	99
15°	1001	1004	1004	1017	1017	282
25°	914	927	938	958	959	421
35°	794	816	843	870	878	497
45°	653	687	729	762	771	503
55°	497	541	593	630	643	445
65°	336	384	444	488	501	333
75°	175	226	292	338	357	185
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	141	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°	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	1049.5	1046.3	1035.4	1042.4	1039.2
5°	1045.0	1043.1	1034.1	1042.4	1039.9
7.5°	1037.9	1037.3	1030.2	1039.9	1037.3
10°	1028.3	1029.6	1023.8	1034.1	1032.2
12.5°	1016.1	1018.0	1015.4	1027.0	1025.7
15°	1001.3	1004.5	1003.9	1017.4	1017.4
17.5°	983.3	987.8	990.4	1005.8	1005.8
20°	962.1	969.2	974.3	991.0	993.6
22.5°	940.9	949.2	957.0	974.3	978.2
25°	913.9	926.8	937.7	958.2	958.9
27.5°	887.6	901.7	916.5	936.4	938.3
30°	858.6	876.6	894.6	913.9	919.7
32.5°	827.8	847.7	867.6	893.3	901.0
35°	794.4	815.6	843.2	870.2	877.9
37.5°	760.9	784.7	816.9	844.5	851.6
40°	726.9	753.2	789.2	817.5	825.9
42.5°	689.0	721.1	759.7	789.9	799.5
45°	653.0	687.0	728.8	761.6	770.6
47.5°	615.1	651.0	696.0	730.7	741.0
50°	574.6	615.7	663.9	698.6	708.2
52.5°	536.6	578.4	629.2	665.2	678.7
55°	496.8	541.1	593.2	630.5	643.3
57.5°	459.5	501.9	557.9	595.1	611.2
60°	417.1	464.0	519.9	560.4	573.3
62.5°	377.3	424.8	482.7	524.4	539.2
65°	336.1	384.3	444.1	487.8	501.3
67.5°	297.6	345.1	406.2	449.2	466.6
70°	255.1	305.3	367.6	412.0	426.7
72.5°	213.4	265.4	329.1	376.6	393.3
75°	174.8	225.6	291.8	338.1	356.7
77.5°	137.5	188.9	255.8	303.3	319.4
80°	100.3	154.2	222.4	269.3	284.7
82.5°	66.2	122.8	190.2	237.2	253.9
85°	38.6	95.8	162.0	206.9	224.9
87.5°	16.7	72.6	135.6	180.0	194.7
90°	0.6	54.0	114.4	157.5	172.9
92.5°	0.6	52.7	111.8	154.2	169.0
95°	0.6	51.4	111.2	152.3	167.1
97.5°	0.6	50.8	109.9	151.0	165.2
100°	0.6	48.8	108.0	148.5	162.6
102.5°	0.6	46.3	106.0	145.9	159.4
105°	0.6	44.3	104.1	143.3	156.2
107.5°	0.6	42.4	100.9	140.1	153.0
110°	0.6	40.5	95.8	136.9	149.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	39.8	91.9	132.4	145.9
115°	1.3	38.6	88.0	127.3	141.4
117.5°	1.3	37.9	84.8	122.1	136.9
120°	1.3	36.0	81.6	117.6	131.8
122.5°	1.3	34.1	78.4	113.1	127.3
125°	1.3	32.8	75.2	108.6	122.1
127.5°	1.3	30.8	72.6	104.1	116.3
130°	1.3	29.6	69.4	99.0	111.2
132.5°	1.3	27.6	66.2	93.8	105.4
135°	1.3	25.7	63.0	89.3	100.3
137.5°	1.3	23.1	59.1	84.2	94.5
140°	1.3	21.2	54.0	79.1	88.7
142.5°	1.3	19.9	48.8	73.3	82.3
145°	1.3	18.6	43.7	67.5	75.8
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	30.8	50.1	56.6
155°	1.9	12.9	27.0	43.1	50.1
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)