

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: P565789

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565789
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-L850-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

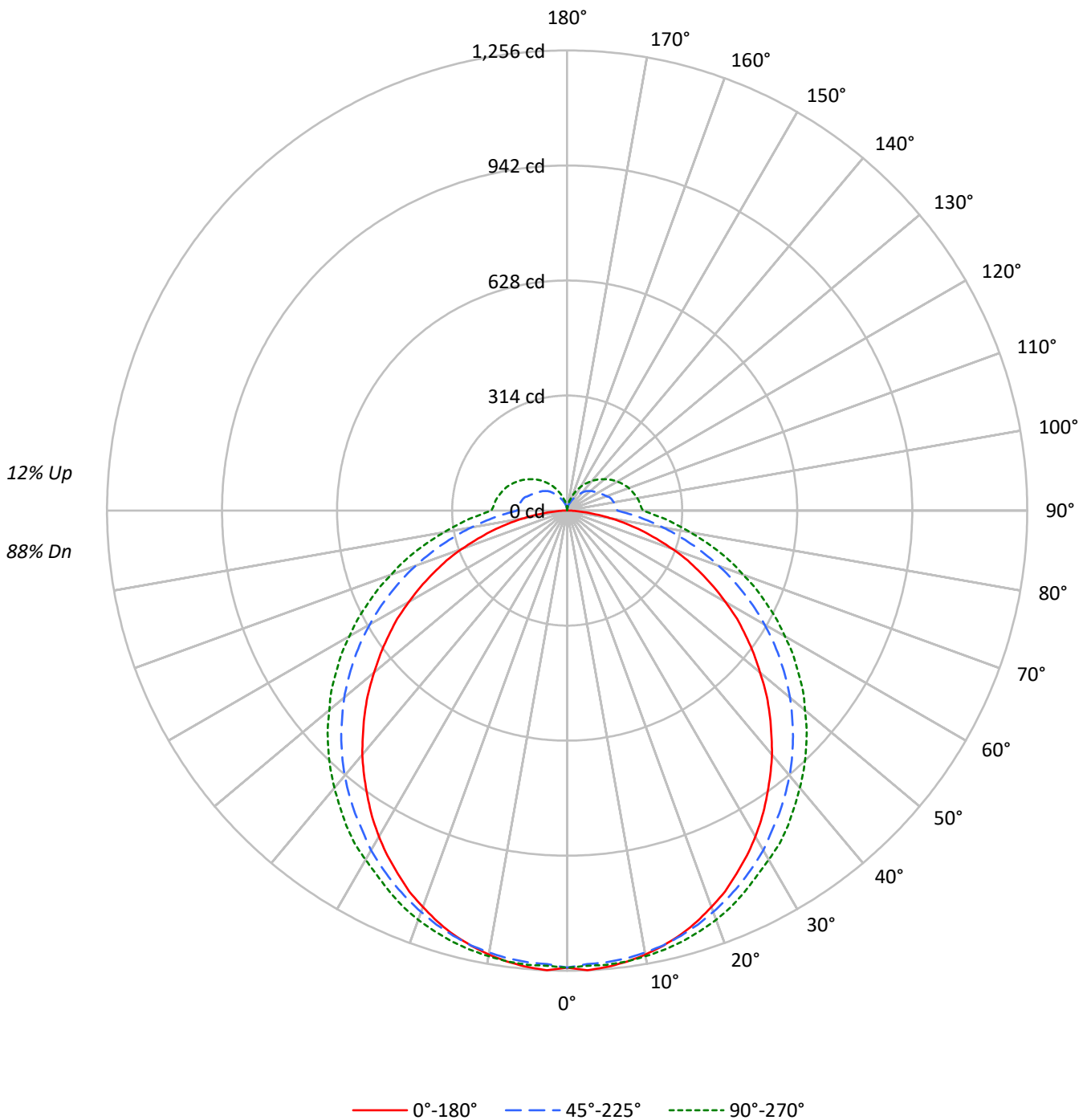
Lumens per Lamp: N/A
Luminaire Lumens: 4491.0 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (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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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°	26854	26854	26854
5°	26974	26434	26503
10°	26800	26169	26228
15°	26556	25855	25973
20°	26177	25481	25681
25°	25727	25102	25289
30°	25238	24719	24955
35°	24623	24265	24723
40°	24024	23883	24366
45°	23304	23443	24063
50°	22467	22975	23680
55°	21668	22399	23338
60°	20741	21786	22920
65°	19612	21076	22512
70°	18176	20296	22049
75°	16145	19431	21886
80°	13305	18830	21714
85°	9197	19030	22889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	2.6
10°-20°	340.7	7.6
20°-30°	518.2	11.5
30°-40°	630.1	14.0
40°-50°	666.6	14.8
50°-60°	624.9	13.9
60°-70°	514.1	11.4
70°-80°	355.7	7.9
80°-90°	197.8	4.4
90°-100°	130.3	2.9
100°-110°	116.9	2.6
110°-120°	96.7	2.2
120°-130°	74.8	1.7
130°-140°	52.9	1.2
140°-150°	31.9	0.7
150°-160°	15.3	0.3
160°-170°	5.0	0.1
170°-180°	0.6	0.0
0°-30°	977.3	21.8
0°-40°	1607.4	35.8
0°-60°	2899.0	64.6
0°-90°	3966.5	88.3
90°-120°	343.9	7.7
90°-150°	503.5	11.2
90°-180°	524.0	11.7
0°-180°	4491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1250	1248	1237	1247	1244	119
15°	1198	1202	1201	1217	1217	338
25°	1094	1109	1122	1147	1147	504
35°	951	976	1009	1041	1050	595
45°	781	822	872	911	922	602
55°	594	648	710	754	770	532
65°	402	460	531	584	600	399
75°	209	270	349	404	427	222
85°	46	115	194	248	269	53
90°	1	65	137	188	207	3
95°	1	62	133	182	200	1
105°	1	53	125	172	187	1
115°	2	46	105	152	169	1
125°	2	39	90	130	146	1
135°	2	31	75	107	120	1
145°	2	22	52	81	91	1
155°	2	15	32	52	60	1
165°	2	10	18	24	31	1
175°	2	4	5	5	3	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.4	1247.4	1247.4	1247.4	1247.4
2.5°	1255.9	1252.0	1239.0	1247.4	1243.6
5°	1250.5	1248.2	1237.4	1247.4	1244.3
7.5°	1242.0	1241.3	1232.8	1244.3	1241.3
10°	1230.5	1232.0	1225.1	1237.4	1235.1
12.5°	1215.9	1218.2	1215.1	1229.0	1227.4
15°	1198.2	1202.1	1201.3	1217.4	1217.4
17.5°	1176.7	1182.1	1185.1	1203.6	1203.6
20°	1151.3	1159.8	1165.9	1185.9	1189.0
22.5°	1125.9	1135.9	1145.1	1165.9	1170.5
25°	1093.6	1109.0	1122.1	1146.7	1147.4
27.5°	1062.1	1079.0	1096.7	1120.5	1122.8
30°	1027.5	1049.0	1070.5	1093.6	1100.5
32.5°	990.6	1014.4	1038.2	1069.0	1078.2
35°	950.6	975.9	1009.0	1041.3	1050.5
37.5°	910.6	939.0	977.5	1010.6	1019.0
40°	869.8	901.3	944.4	978.3	988.3
42.5°	824.4	862.9	909.0	945.2	956.7
45°	781.4	822.1	872.1	911.3	922.1
47.5°	736.0	779.1	832.9	874.4	886.7
50°	687.5	736.8	794.4	836.0	847.5
52.5°	642.2	692.2	752.9	796.0	812.1
55°	594.5	647.6	709.8	754.5	769.8
57.5°	549.9	600.6	667.5	712.2	731.4
60°	499.1	555.3	622.2	670.6	686.0
62.5°	451.4	508.4	577.6	627.6	645.2
65°	402.2	459.9	531.4	583.7	599.9
67.5°	356.1	413.0	486.1	537.6	558.3
70°	305.3	365.3	439.9	493.0	510.7
72.5°	255.3	317.6	393.8	450.7	470.7
75°	209.2	269.9	349.2	404.5	426.8
77.5°	164.6	226.1	306.1	363.0	382.2
80°	120.0	184.6	266.1	322.2	340.7
82.5°	79.2	146.9	227.6	283.8	303.8
85°	46.1	114.6	193.8	247.6	269.2
87.5°	20.0	86.9	162.3	215.3	233.0
90°	0.8	64.6	136.9	188.4	206.9
92.5°	0.8	63.1	133.8	184.6	202.3
95°	0.8	61.5	133.0	182.3	200.0
97.5°	0.8	60.8	131.5	180.7	197.7
100°	0.8	58.4	129.2	177.7	194.6
102.5°	0.8	55.4	126.9	174.6	190.7
105°	0.8	53.1	124.6	171.5	186.9
107.5°	0.8	50.8	120.7	167.7	183.0
110°	0.8	48.5	114.6	163.8	179.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	47.7	110.0	158.4	174.6
115°	1.5	46.1	105.4	152.3	169.2
117.5°	1.5	45.4	101.5	146.1	163.8
120°	1.5	43.1	97.7	140.7	157.7
122.5°	1.5	40.8	93.8	135.4	152.3
125°	1.5	39.2	90.0	130.0	146.1
127.5°	1.5	36.9	86.9	124.6	139.2
130°	1.5	35.4	83.1	118.4	133.0
132.5°	1.5	33.1	79.2	112.3	126.1
135°	1.5	30.8	75.4	106.9	120.0
137.5°	1.5	27.7	70.8	100.7	113.1
140°	1.5	25.4	64.6	94.6	106.1
142.5°	1.5	23.8	58.4	87.7	98.4
145°	1.5	22.3	52.3	80.8	90.7
147.5°	1.5	20.8	46.9	73.8	83.1
150°	1.5	18.5	41.5	67.7	75.4
152.5°	2.3	16.9	36.9	60.0	67.7
155°	2.3	15.4	32.3	51.5	60.0
157.5°	2.3	13.8	27.7	43.1	52.3
160°	2.3	12.3	23.8	35.4	44.6
162.5°	2.3	11.5	20.8	29.2	37.7
165°	2.3	10.0	17.7	23.8	30.8
167.5°	2.3	7.7	14.6	18.5	25.4
170°	2.3	6.2	11.5	13.1	19.2
172.5°	2.3	4.6	8.5	9.2	10.0
175°	2.3	3.8	5.4	5.4	3.1
177.5°	2.3	3.1	3.1	3.1	1.5
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)