

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: P565788

Luminaire Tested: **2SNX-47HL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565788
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-L840-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

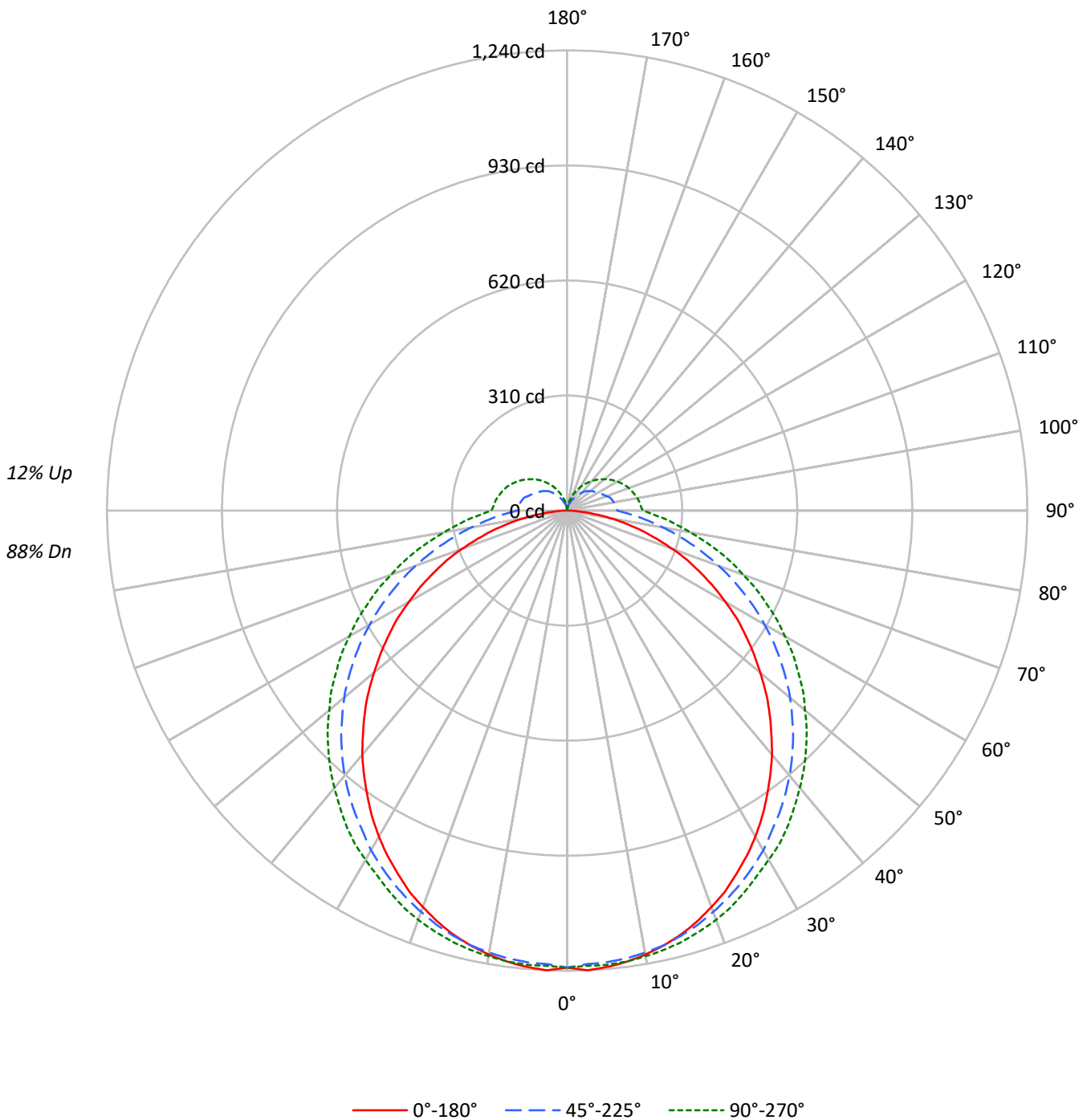
Lumens per Lamp: N/A
Luminaire Lumens: 4434.0 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.04')
CIE Type: Semi-Direct

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

TEST NUMBER: P565788

CATALOG NUMBER: 2SNX-47HL-FDL-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P565788

CATALOG NUMBER: 2SNX-47HL-FDL-UNV-L840-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	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°	26514	26514	26514
5°	26631	26098	26169
10°	26460	25838	25895
15°	26219	25526	25644
20°	25845	25157	25355
25°	25400	24782	24970
30°	24916	24407	24640
35°	24310	23957	24410
40°	23720	23580	24056
45°	23009	23147	23757
50°	22183	22686	23381
55°	21391	22115	23044
60°	20479	21510	22629
65°	19363	20811	22227
70°	17944	20037	21768
75°	15937	19180	21609
80°	13139	18590	21440
85°	9097	18785	22600



TEST NUMBER: P565788

CATALOG NUMBER: 2SNX-47HL-FDL-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	2.6
10°-20°	336.3	7.6
20°-30°	511.7	11.5
30°-40°	622.1	14.0
40°-50°	658.2	14.8
50°-60°	617.0	13.9
60°-70°	507.6	11.4
70°-80°	351.2	7.9
80°-90°	195.3	4.4
90°-100°	128.7	2.9
100°-110°	115.4	2.6
110°-120°	95.5	2.2
120°-130°	73.8	1.7
130°-140°	52.3	1.2
140°-150°	31.5	0.7
150°-160°	15.1	0.3
160°-170°	5.0	0.1
170°-180°	0.6	0.0
0°-30°	964.9	21.8
0°-40°	1587.0	35.8
0°-60°	2862.2	64.6
0°-90°	3916.2	88.3
90°-120°	339.5	7.7
90°-150°	497.1	11.2
90°-180°	518.0	11.7
0°-180°	4434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1235	1232	1222	1232	1229	117
15°	1183	1187	1186	1202	1202	333
25°	1080	1095	1108	1132	1133	498
35°	938	964	996	1028	1037	587
45°	772	812	861	900	910	595
55°	587	639	701	745	760	525
65°	397	454	525	576	592	394
75°	206	266	345	399	421	219
85°	46	113	191	244	266	52
90°	1	64	135	186	204	3
95°	1	61	131	180	197	1
105°	1	52	123	169	184	1
115°	2	46	104	150	167	1
125°	2	39	89	128	144	1
135°	2	30	74	106	118	1
145°	2	22	52	80	90	1
155°	2	15	32	51	59	1
165°	2	10	18	24	30	1
175°	2	4	5	5	3	0
180°	2	2	2	2	2	



TEST NUMBER: P565788

CATALOG NUMBER: 2SNX-47HL-FDL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.6	1231.6	1231.6	1231.6	1231.6
2.5°	1239.9	1236.1	1223.2	1231.6	1227.8
5°	1234.6	1232.4	1221.7	1231.6	1228.6
7.5°	1226.3	1225.5	1217.2	1228.6	1225.5
10°	1214.9	1216.4	1209.6	1221.7	1219.4
12.5°	1200.5	1202.7	1199.7	1213.4	1211.9
15°	1183.0	1186.8	1186.0	1202.0	1202.0
17.5°	1161.7	1167.1	1170.1	1188.3	1188.3
20°	1136.7	1145.0	1151.1	1170.8	1173.9
22.5°	1111.6	1121.5	1130.6	1151.1	1155.7
25°	1079.7	1094.9	1107.8	1132.1	1132.9
27.5°	1048.6	1065.3	1082.8	1106.3	1108.6
30°	1014.4	1035.7	1057.0	1079.7	1086.6
32.5°	978.0	1001.5	1025.1	1055.4	1064.5
35°	938.5	963.6	996.2	1028.1	1037.2
37.5°	899.0	927.1	965.1	997.7	1006.1
40°	858.8	889.9	932.4	965.8	975.7
42.5°	814.0	851.9	897.5	933.2	944.6
45°	771.5	811.7	861.1	899.8	910.4
47.5°	726.7	769.2	822.3	863.3	875.5
50°	678.8	727.4	784.4	825.4	836.8
52.5°	634.0	683.4	743.4	785.9	801.8
55°	586.9	639.3	700.8	744.9	760.1
57.5°	542.9	593.0	659.1	703.1	722.1
60°	492.8	548.2	614.3	662.1	677.3
62.5°	445.7	501.9	570.2	619.6	637.1
65°	397.1	454.1	524.7	576.3	592.3
67.5°	351.6	407.7	479.9	530.8	551.3
70°	301.4	360.7	434.3	486.7	504.2
72.5°	252.1	313.6	388.8	445.0	464.7
75°	206.5	266.5	344.7	399.4	421.4
77.5°	162.5	223.2	302.2	358.4	377.4
80°	118.5	182.2	262.7	318.1	336.4
82.5°	78.2	145.0	224.8	280.2	299.9
85°	45.6	113.1	191.3	244.5	265.8
87.5°	19.7	85.8	160.2	212.6	230.1
90°	0.8	63.8	135.2	186.0	204.3
92.5°	0.8	62.3	132.1	182.2	199.7
95°	0.8	60.7	131.4	180.0	197.4
97.5°	0.8	60.0	129.8	178.4	195.1
100°	0.8	57.7	127.6	175.4	192.1
102.5°	0.8	54.7	125.3	172.4	188.3
105°	0.8	52.4	123.0	169.3	184.5
107.5°	0.8	50.1	119.2	165.5	180.7
110°	0.8	47.8	113.1	161.7	176.9



TEST NUMBER: P565788

CATALOG NUMBER: 2SNX-47HL-FDL-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	47.1	108.6	156.4	172.4
115°	1.5	45.6	104.0	150.3	167.0
117.5°	1.5	44.8	100.2	144.3	161.7
120°	1.5	42.5	96.4	139.0	155.7
122.5°	1.5	40.2	92.6	133.6	150.3
125°	1.5	38.7	88.8	128.3	144.3
127.5°	1.5	36.4	85.8	123.0	137.4
130°	1.5	34.9	82.0	116.9	131.4
132.5°	1.5	32.7	78.2	110.9	124.5
135°	1.5	30.4	74.4	105.5	118.5
137.5°	1.5	27.3	69.9	99.5	111.6
140°	1.5	25.1	63.8	93.4	104.8
142.5°	1.5	23.5	57.7	86.6	97.2
145°	1.5	22.0	51.6	79.7	89.6
147.5°	1.5	20.5	46.3	72.9	82.0
150°	1.5	18.2	41.0	66.8	74.4
152.5°	2.3	16.7	36.4	59.2	66.8
155°	2.3	15.2	31.9	50.9	59.2
157.5°	2.3	13.7	27.3	42.5	51.6
160°	2.3	12.1	23.5	34.9	44.0
162.5°	2.3	11.4	20.5	28.9	37.2
165°	2.3	9.9	17.5	23.5	30.4
167.5°	2.3	7.6	14.4	18.2	25.1
170°	2.3	6.1	11.4	12.9	19.0
172.5°	2.3	4.6	8.4	9.1	9.9
175°	2.3	3.8	5.3	5.3	3.0
177.5°	2.3	3.0	3.0	3.0	1.5
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)