

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: P565786

Luminaire Tested: **2SNX-47HL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565786
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-L830-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

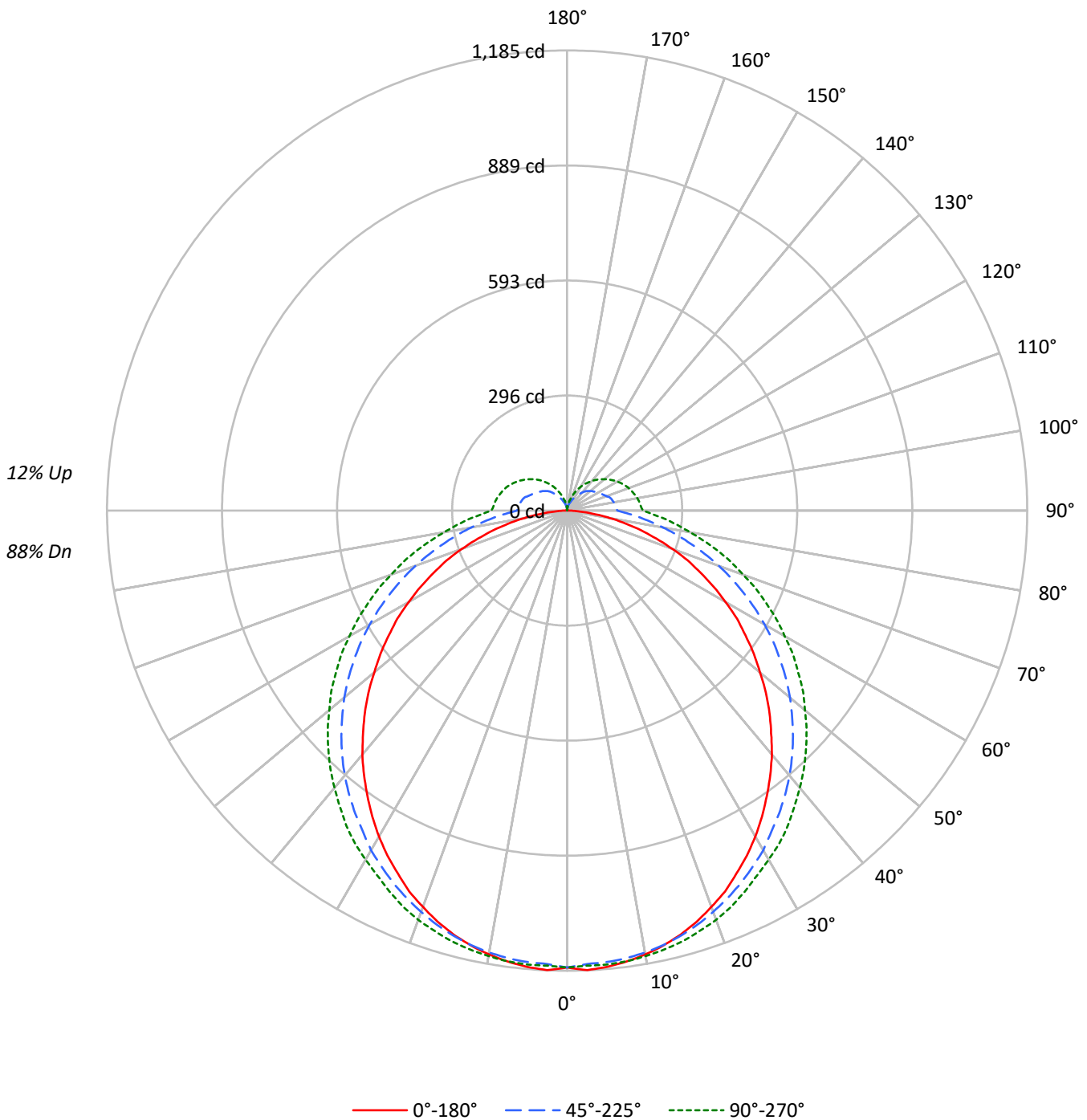
Lumens per Lamp: N/A
Luminaire Lumens: 4236.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.04')
CIE Type: Semi-Direct

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: P565786

CATALOG NUMBER: 2SNX-47HL-FDL-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P565786

CATALOG NUMBER: 2SNX-47HL-FDL-UNV-L830-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	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°	25330	25330	25330
5°	25443	24934	24999
10°	25278	24684	24740
15°	25049	24387	24498
20°	24690	24034	24223
25°	24266	23677	23854
30°	23804	23317	23538
35°	23224	22887	23320
40°	22659	22528	22981
45°	21980	22112	22698
50°	21193	21671	22336
55°	20436	21128	22013
60°	19565	20547	21620
65°	18500	19883	21232
70°	17146	19142	20797
75°	15227	18324	20645
80°	12551	17762	20484
85°	8678	17950	21588



TEST NUMBER: P565786

CATALOG NUMBER: 2SNX-47HL-FDL-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	2.6
10°-20°	321.3	7.6
20°-30°	488.8	11.5
30°-40°	594.3	14.0
40°-50°	628.8	14.8
50°-60°	589.4	13.9
60°-70°	484.9	11.4
70°-80°	335.5	7.9
80°-90°	186.6	4.4
90°-100°	122.9	2.9
100°-110°	110.2	2.6
110°-120°	91.2	2.2
120°-130°	70.5	1.7
130°-140°	49.9	1.2
140°-150°	30.1	0.7
150°-160°	14.5	0.3
160°-170°	4.7	0.1
170°-180°	0.6	0.0
0°-30°	921.8	21.8
0°-40°	1516.2	35.8
0°-60°	2734.4	64.6
0°-90°	3741.3	88.3
90°-120°	324.3	7.7
90°-150°	474.9	11.2
90°-180°	495.0	11.7
0°-180°	4236.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1180	1177	1167	1177	1174	112
15°	1130	1134	1133	1148	1148	319
25°	1032	1046	1058	1082	1082	475
35°	897	920	952	982	991	561
45°	737	776	823	860	870	568
55°	561	611	670	712	726	502
65°	379	434	501	551	566	376
75°	197	255	329	382	403	209
85°	44	108	183	234	254	50
90°	1	61	129	178	195	3
95°	1	58	126	172	189	1
105°	1	50	118	162	176	1
115°	2	44	99	144	160	1
125°	2	37	85	123	138	1
135°	2	29	71	101	113	1
145°	2	21	49	76	86	1
155°	2	14	30	49	57	1
165°	2	9	17	22	29	1
175°	2	4	5	5	3	0
180°	2	2	2	2	2	



TEST NUMBER: P565786

CATALOG NUMBER: 2SNX-47HL-FDL-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1184.6	1180.9	1168.6	1176.6	1173.0
5°	1179.5	1177.3	1167.2	1176.6	1173.7
7.5°	1171.5	1170.8	1162.8	1173.7	1170.8
10°	1160.6	1162.1	1155.6	1167.2	1165.0
12.5°	1146.9	1149.0	1146.1	1159.2	1157.7
15°	1130.2	1133.8	1133.1	1148.3	1148.3
17.5°	1109.9	1114.9	1117.8	1135.2	1135.2
20°	1085.9	1093.9	1099.7	1118.6	1121.5
22.5°	1062.0	1071.4	1080.1	1099.7	1104.1
25°	1031.5	1046.0	1058.4	1081.6	1082.3
27.5°	1001.8	1017.7	1034.4	1056.9	1059.1
30°	969.1	989.4	1009.8	1031.5	1038.0
32.5°	934.3	956.8	979.3	1008.3	1017.0
35°	896.6	920.5	951.7	982.2	990.9
37.5°	858.9	885.7	922.0	953.2	961.2
40°	820.4	850.2	890.8	922.7	932.1
42.5°	777.6	813.9	857.4	891.5	902.4
45°	737.0	775.5	822.6	859.6	869.8
47.5°	694.2	734.8	785.6	824.8	836.4
50°	648.5	694.9	749.3	788.5	799.4
52.5°	605.7	652.9	710.2	750.8	766.0
55°	560.7	610.8	669.5	711.6	726.1
57.5°	518.7	566.5	629.6	671.7	689.9
60°	470.8	523.7	586.8	632.5	647.1
62.5°	425.8	479.5	544.8	591.9	608.6
65°	379.4	433.8	501.3	550.6	565.8
67.5°	335.9	389.5	458.5	507.1	526.6
70°	288.0	344.6	414.9	465.0	481.7
72.5°	240.8	299.6	371.4	425.1	443.9
75°	197.3	254.6	329.3	381.6	402.6
77.5°	155.2	213.3	288.7	342.4	360.5
80°	113.2	174.1	251.0	303.9	321.4
82.5°	74.7	138.6	214.7	267.7	286.5
85°	43.5	108.1	182.8	233.6	253.9
87.5°	18.9	82.0	153.1	203.1	219.8
90°	0.7	60.9	129.1	177.7	195.1
92.5°	0.7	59.5	126.2	174.1	190.8
95°	0.7	58.0	125.5	171.9	188.6
97.5°	0.7	57.3	124.0	170.5	186.4
100°	0.7	55.1	121.9	167.6	183.5
102.5°	0.7	52.2	119.7	164.7	179.9
105°	0.7	50.1	117.5	161.8	176.3
107.5°	0.7	47.9	113.9	158.1	172.6
110°	0.7	45.7	108.1	154.5	169.0



TEST NUMBER: P565786

CATALOG NUMBER: 2SNX-47HL-FDL-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	45.0	103.7	149.4	164.7
115°	1.5	43.5	99.4	143.6	159.6
117.5°	1.5	42.8	95.8	137.8	154.5
120°	1.5	40.6	92.1	132.7	148.7
122.5°	1.5	38.4	88.5	127.7	143.6
125°	1.5	37.0	84.9	122.6	137.8
127.5°	1.5	34.8	82.0	117.5	131.3
130°	1.5	33.4	78.3	111.7	125.5
132.5°	1.5	31.2	74.7	105.9	119.0
135°	1.5	29.0	71.1	100.8	113.2
137.5°	1.5	26.1	66.7	95.0	106.6
140°	1.5	23.9	60.9	89.2	100.1
142.5°	1.5	22.5	55.1	82.7	92.9
145°	1.5	21.0	49.3	76.2	85.6
147.5°	1.5	19.6	44.2	69.6	78.3
150°	1.5	17.4	39.2	63.8	71.1
152.5°	2.2	16.0	34.8	56.6	63.8
155°	2.2	14.5	30.5	48.6	56.6
157.5°	2.2	13.1	26.1	40.6	49.3
160°	2.2	11.6	22.5	33.4	42.1
162.5°	2.2	10.9	19.6	27.6	35.5
165°	2.2	9.4	16.7	22.5	29.0
167.5°	2.2	7.3	13.8	17.4	23.9
170°	2.2	5.8	10.9	12.3	18.1
172.5°	2.2	4.4	8.0	8.7	9.4
175°	2.2	3.6	5.1	5.1	2.9
177.5°	2.2	2.9	2.9	2.9	1.5
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)