

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: P565765

Luminaire Tested: **2SNX-44HL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565765
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-44HL-LW-UNV-L850-CD
Description: 2FT 4400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

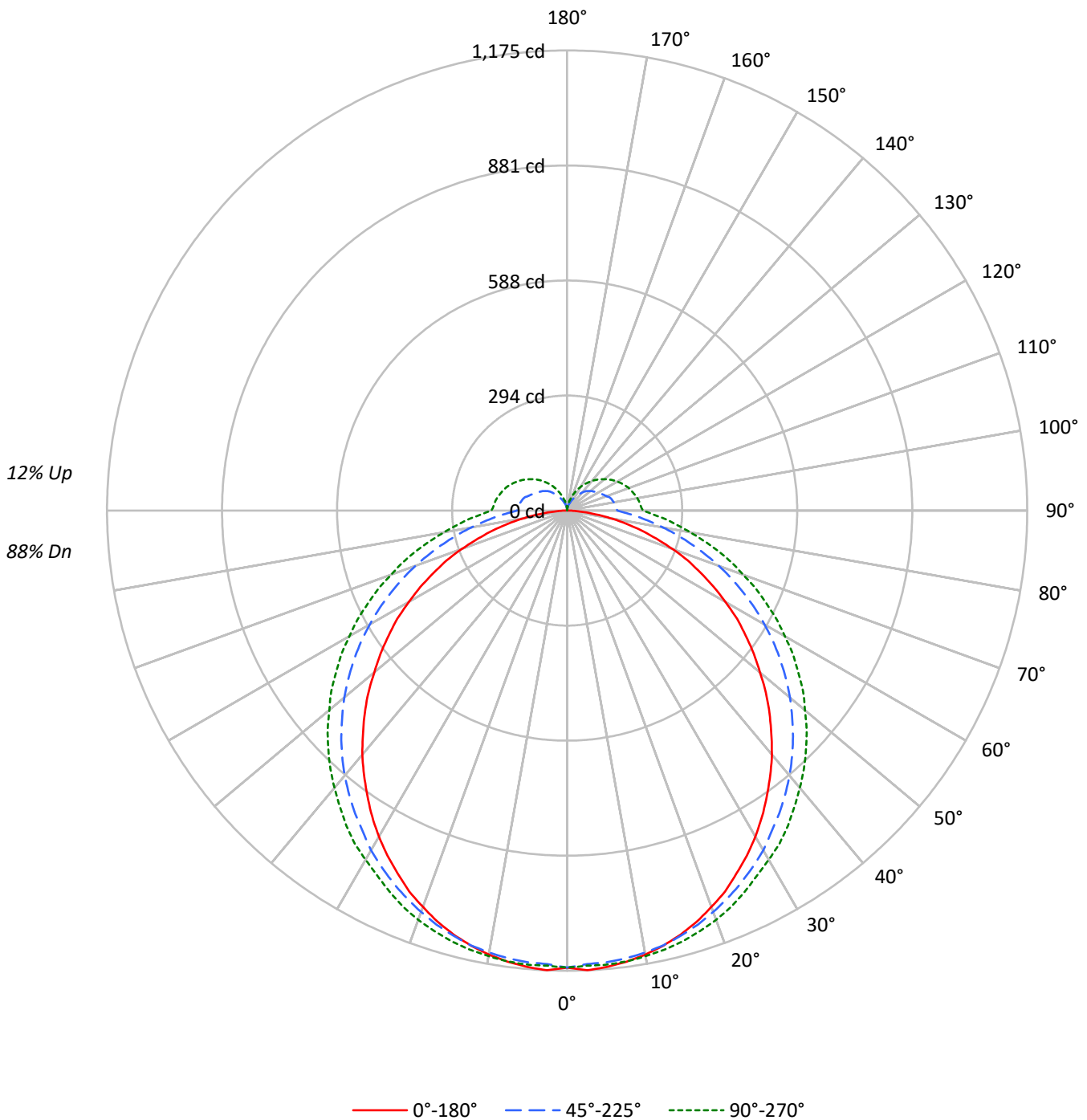
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4201.0 lumens
Efficiency: N/A
Efficacy: 135.1 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): 31.1
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

TEST NUMBER: P565765
CATALOG NUMBER: 2SNX-44HL-LW-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P565765

CATALOG NUMBER: 2SNX-44HL-LW-UNV-L850-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°	25121	25121	25121
5°	25096	23905	23768
10°	24796	22909	22600
15°	24434	21928	21534
20°	23945	20943	20504
25°	23391	19988	19450
30°	22794	19058	18479
35°	22080	18089	17607
40°	21370	17180	16659
45°	20540	16230	15757
50°	19592	15249	14796
55°	18652	14181	13845
60°	17567	13061	12822
65°	16258	11847	11764
70°	14627	10541	10618
75°	12416	9118	9522
80°	9446	7699	8264
85°	5465	6341	7215



TEST NUMBER: P565765

CATALOG NUMBER: 2SNX-44HL-LW-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	2.6
10°-20°	318.7	7.6
20°-30°	484.8	11.5
30°-40°	589.4	14.0
40°-50°	623.6	14.8
50°-60°	584.5	13.9
60°-70°	480.9	11.4
70°-80°	332.7	7.9
80°-90°	185.0	4.4
90°-100°	121.9	2.9
100°-110°	109.3	2.6
110°-120°	90.5	2.2
120°-130°	69.9	1.7
130°-140°	49.5	1.2
140°-150°	29.9	0.7
150°-160°	14.3	0.3
160°-170°	4.7	0.1
170°-180°	0.6	0.0
0°-30°	914.2	21.8
0°-40°	1503.6	35.8
0°-60°	2711.8	64.6
0°-90°	3710.4	88.3
90°-120°	321.7	7.7
90°-150°	471.0	11.2
90°-180°	491.0	11.7
0°-180°	4201.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1167	1167	1167	1167	1167	
5°	1170	1168	1158	1167	1164	111
15°	1121	1124	1124	1139	1139	316
25°	1023	1037	1050	1073	1073	472
35°	889	913	944	974	983	556
45°	731	769	816	852	863	563
55°	556	606	664	706	720	498
65°	376	430	497	546	561	373
75°	196	252	327	378	399	208
85°	43	107	181	232	252	50
90°	1	60	128	176	194	3
95°	1	58	124	170	187	1
105°	1	50	116	160	175	1
115°	1	43	99	142	158	1
125°	1	37	84	122	137	1
135°	1	29	70	100	112	1
145°	1	21	49	76	85	1
155°	2	14	30	48	56	1
165°	2	9	16	22	29	1
175°	2	4	5	5	3	0
180°	1	1	1	1	1	



TEST NUMBER: P565765

CATALOG NUMBER: 2SNX-44HL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.9	1166.9	1166.9	1166.9	1166.9
2.5°	1174.8	1171.2	1159.0	1166.9	1163.3
5°	1169.8	1167.6	1157.5	1166.9	1164.0
7.5°	1161.8	1161.1	1153.2	1164.0	1161.1
10°	1151.0	1152.5	1146.0	1157.5	1155.4
12.5°	1137.4	1139.5	1136.7	1149.6	1148.2
15°	1120.8	1124.4	1123.7	1138.8	1138.8
17.5°	1100.7	1105.7	1108.6	1125.9	1125.9
20°	1076.9	1084.9	1090.6	1109.3	1112.2
22.5°	1053.2	1062.6	1071.2	1090.6	1094.9
25°	1023.0	1037.4	1049.6	1072.6	1073.4
27.5°	993.5	1009.3	1025.9	1048.2	1050.3
30°	961.1	981.3	1001.4	1023.0	1029.5
32.5°	926.6	948.9	971.2	1000.0	1008.6
35°	889.2	912.9	943.9	974.1	982.7
37.5°	851.8	878.4	914.4	945.3	953.2
40°	813.6	843.1	883.4	915.1	924.4
42.5°	771.2	807.2	850.3	884.1	894.9
45°	730.9	769.0	815.8	852.5	862.6
47.5°	688.5	728.8	779.1	818.0	829.5
50°	643.1	689.2	743.1	782.0	792.8
52.5°	600.7	647.5	704.3	744.6	759.7
55°	556.1	605.7	664.0	705.7	720.1
57.5°	514.4	561.9	624.4	666.2	684.2
60°	466.9	519.4	582.0	627.3	641.7
62.5°	422.3	475.5	540.3	587.0	603.6
65°	376.2	430.2	497.1	546.0	561.1
67.5°	333.1	386.3	454.7	502.9	522.3
70°	285.6	341.7	411.5	461.1	477.7
72.5°	238.8	297.1	368.3	421.6	440.3
75°	195.7	252.5	326.6	378.4	399.3
77.5°	154.0	211.5	286.3	339.6	357.5
80°	112.2	172.7	248.9	301.4	318.7
82.5°	74.1	137.4	212.9	265.5	284.2
85°	43.2	107.2	181.3	231.6	251.8
87.5°	18.7	81.3	151.8	201.4	218.0
90°	0.7	60.4	128.1	176.3	193.5
92.5°	0.7	59.0	125.2	172.7	189.2
95°	0.7	57.6	124.5	170.5	187.0
97.5°	0.7	56.8	123.0	169.1	184.9
100°	0.7	54.7	120.9	166.2	182.0
102.5°	0.7	51.8	118.7	163.3	178.4
105°	0.7	49.6	116.5	160.4	174.8
107.5°	0.7	47.5	112.9	156.8	171.2
110°	0.7	45.3	107.2	153.2	167.6



TEST NUMBER: P565765

CATALOG NUMBER: 2SNX-44HL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	44.6	102.9	148.2	163.3
115°	1.4	43.2	98.6	142.4	158.3
117.5°	1.4	42.4	95.0	136.7	153.2
120°	1.4	40.3	91.4	131.7	147.5
122.5°	1.4	38.1	87.8	126.6	142.4
125°	1.4	36.7	84.2	121.6	136.7
127.5°	1.4	34.5	81.3	116.5	130.2
130°	1.4	33.1	77.7	110.8	124.5
132.5°	1.4	30.9	74.1	105.0	118.0
135°	1.4	28.8	70.5	100.0	112.2
137.5°	1.4	25.9	66.2	94.2	105.8
140°	1.4	23.7	60.4	88.5	99.3
142.5°	1.4	22.3	54.7	82.0	92.1
145°	1.4	20.9	48.9	75.5	84.9
147.5°	1.4	19.4	43.9	69.1	77.7
150°	1.4	17.3	38.8	63.3	70.5
152.5°	2.2	15.8	34.5	56.1	63.3
155°	2.2	14.4	30.2	48.2	56.1
157.5°	2.2	12.9	25.9	40.3	48.9
160°	2.2	11.5	22.3	33.1	41.7
162.5°	2.2	10.8	19.4	27.3	35.3
165°	2.2	9.4	16.5	22.3	28.8
167.5°	2.2	7.2	13.7	17.3	23.7
170°	2.2	5.8	10.8	12.2	18.0
172.5°	2.2	4.3	7.9	8.6	9.4
175°	2.2	3.6	5.0	5.0	2.9
177.5°	2.2	2.9	2.9	2.9	1.4
180°	1.4	1.4	1.4	1.4	1.4

(END OF REPORT)