

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: P566422

Luminaire Tested: **4SNX-45SL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-45SL-FDL-UNV-L830-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

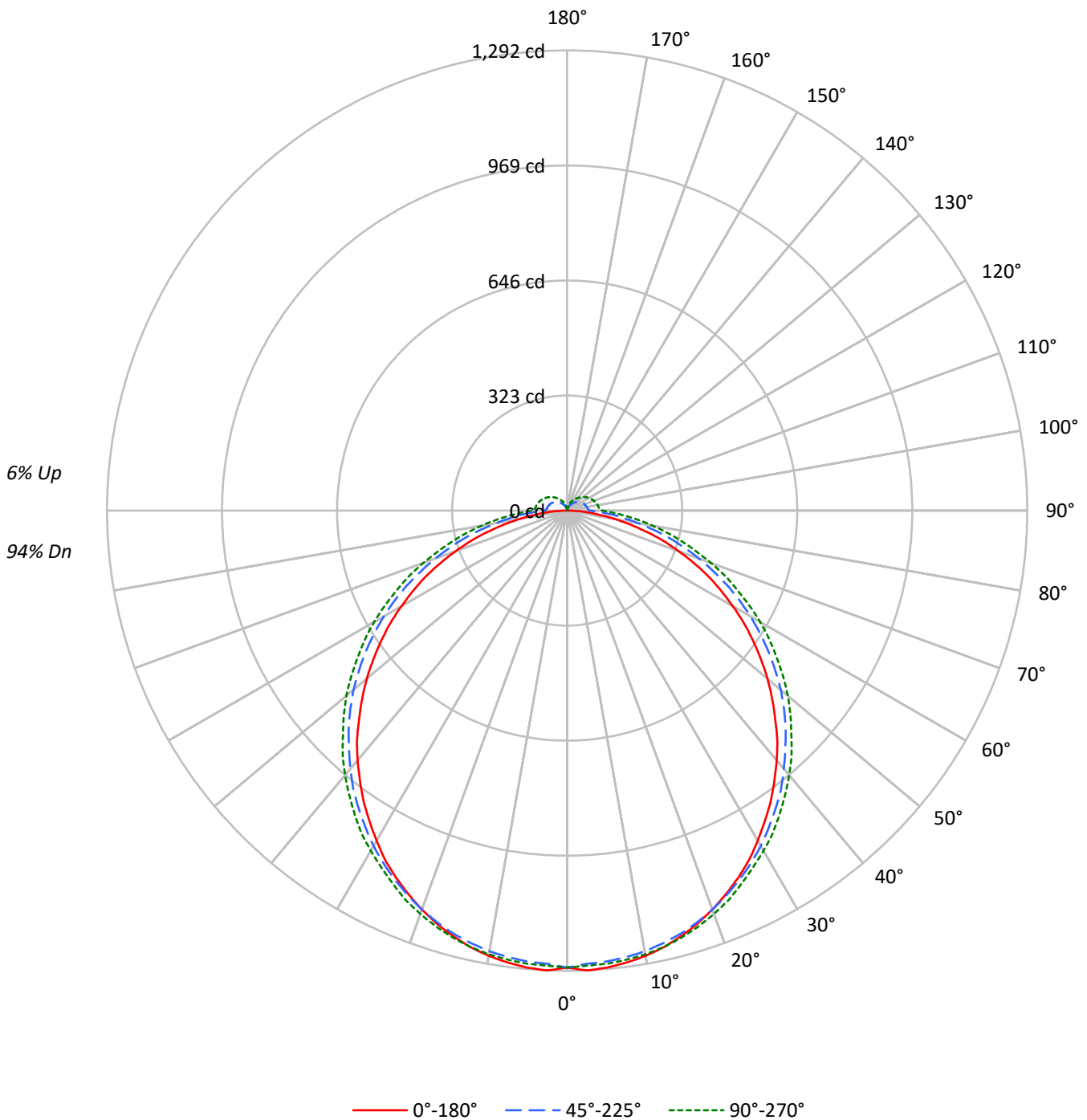
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4077.0 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Direct

Input Watts (W): 29.8
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: P566422
CATALOG NUMBER: 4SNX-45SL-FDL-UNV-L830-CD

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	97	93	103	99	95	91	93	90	87	88	86	83	84	82	80	77
2	97	88	81	75	93	86	79	74	81	76	71	77	73	69	73	69	66	64
3	88	77	69	62	85	75	67	61	71	65	59	68	62	57	64	60	56	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39
6	68	55	46	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13810	13810	13810
5°	13904	13581	13602
10°	13847	13434	13431
15°	13743	13265	13239
20°	13602	13059	13014
25°	13440	12833	12746
30°	13220	12603	12500
35°	12997	12334	12242
40°	12752	12035	11953
45°	12443	11740	11615
50°	12146	11403	11306
55°	11775	10988	10878
60°	11360	10512	10458
65°	10917	9945	9875
70°	10161	9230	9274
75°	9247	8390	8554
80°	7901	7275	7753
85°	6213	6309	6815



TEST NUMBER: P566422

CATALOG NUMBER: 4SNX-45SL-FDL-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	3.0
10°-20°	349.1	8.6
20°-30°	529.1	13.0
30°-40°	638.7	15.7
40°-50°	667.0	16.4
50°-60°	612.8	15.0
60°-70°	484.6	11.9
70°-80°	306.7	7.5
80°-90°	131.8	3.2
90°-100°	58.0	1.4
100°-110°	51.9	1.3
110°-120°	43.9	1.1
120°-130°	34.2	0.8
130°-140°	23.7	0.6
140°-150°	14.2	0.3
150°-160°	6.9	0.2
160°-170°	2.4	0.1
170°-180°	0.4	0.0
0°-30°	999.9	24.5
0°-40°	1638.6	40.2
0°-60°	2918.4	71.6
0°-90°	3841.4	94.2
90°-120°	153.8	3.8
90°-150°	225.8	5.5
90°-180°	236.0	5.8
0°-180°	4077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1283	1283	1283	1283	1283	
5°	1288	1284	1271	1282	1277	122
15°	1237	1237	1230	1243	1241	349
25°	1137	1142	1144	1159	1157	524
35°	996	1008	1021	1037	1040	623
45°	826	846	868	884	890	638
55°	637	663	690	713	718	570
65°	438	463	495	518	526	432
75°	231	258	296	321	334	245
85°	56	87	124	151	160	62
90°	4	31	64	89	98	5
95°	1	27	58	81	90	1
105°	1	24	54	76	84	1
115°	1	21	49	69	76	1
125°	1	19	41	59	66	1
135°	1	14	33	47	53	1
145°	1	11	23	35	39	1
155°	1	7	15	22	27	1
165°	2	5	8	11	15	1
175°	2	3	4	4	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.0	1283.0	1283.0	1283.0	1283.0
2.5°	1292.3	1288.0	1273.6	1283.7	1278.6
5°	1288.0	1284.4	1270.7	1281.5	1277.2
7.5°	1280.1	1277.2	1264.9	1276.5	1272.1
10°	1269.2	1267.1	1256.2	1267.8	1264.9
12.5°	1255.5	1254.8	1244.0	1257.0	1254.8
15°	1236.7	1236.7	1230.3	1243.2	1241.1
17.5°	1216.5	1217.3	1212.2	1225.9	1224.5
20°	1192.0	1195.6	1192.0	1206.4	1205.0
22.5°	1165.3	1170.3	1168.9	1183.3	1184.0
25°	1137.1	1142.2	1143.6	1158.8	1156.6
27.5°	1106.1	1114.0	1116.9	1130.6	1129.9
30°	1070.0	1080.8	1087.3	1098.9	1102.5
32.5°	1033.2	1046.1	1054.1	1070.0	1074.3
35°	996.3	1007.9	1020.9	1036.8	1040.4
37.5°	955.9	968.9	986.2	1001.4	1005.7
40°	915.5	929.9	946.5	963.1	969.6
42.5°	873.6	888.8	906.8	926.3	932.8
45°	825.9	846.2	867.8	884.4	890.2
47.5°	780.5	802.8	825.9	844.0	850.5
50°	734.3	758.1	782.6	799.2	809.3
52.5°	685.9	711.9	736.4	757.4	763.9
55°	636.8	662.8	690.2	712.6	717.6
57.5°	589.1	614.4	641.8	662.8	672.9
60°	537.2	564.6	594.2	615.1	626.0
62.5°	486.6	513.3	545.1	567.5	576.1
65°	438.2	462.8	495.3	518.4	526.3
67.5°	384.8	413.0	444.0	470.7	480.8
70°	332.1	358.8	394.2	419.5	429.6
72.5°	283.0	309.0	344.4	369.7	379.0
75°	231.0	258.5	296.0	321.3	333.6
77.5°	181.2	211.5	247.6	275.1	288.8
80°	135.0	161.7	200.7	231.0	243.3
82.5°	91.7	120.6	161.0	189.2	202.9
85°	56.3	86.6	124.2	150.9	160.3
87.5°	26.7	55.6	90.2	116.2	127.8
90°	3.6	31.0	63.5	88.8	98.2
92.5°	0.7	26.7	58.5	82.3	91.0
95°	0.7	26.7	57.8	80.9	89.5
97.5°	0.7	26.0	57.0	80.1	88.1
100°	0.7	25.3	56.3	78.7	87.4
102.5°	0.7	25.3	54.9	77.3	85.2
105°	0.7	24.5	54.1	75.8	83.7
107.5°	0.7	23.8	52.7	74.4	82.3
110°	0.7	22.4	52.0	72.2	80.1



TEST NUMBER: P566422

CATALOG NUMBER: 4SNX-45SL-FDL-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	21.7	50.5	70.8	78.0
115°	0.7	20.9	49.1	68.6	75.8
117.5°	0.7	20.2	46.9	66.4	73.6
120°	1.4	20.2	45.5	64.3	70.8
122.5°	1.4	19.5	43.3	61.4	67.9
125°	1.4	18.8	41.2	59.2	65.7
127.5°	1.4	18.0	39.0	56.3	62.1
130°	1.4	16.6	37.5	53.4	59.2
132.5°	1.4	15.9	35.4	49.8	55.6
135°	1.4	14.4	33.2	46.9	52.7
137.5°	1.4	13.7	31.0	44.0	49.1
140°	1.4	13.0	28.2	41.2	46.2
142.5°	1.4	11.6	26.0	38.3	42.6
145°	1.4	10.8	23.1	35.4	39.0
147.5°	1.4	9.4	20.9	32.5	36.1
150°	1.4	8.7	18.8	29.6	33.2
152.5°	1.4	7.9	16.6	26.0	29.6
155°	1.4	7.2	15.2	22.4	26.7
157.5°	1.4	6.5	13.0	19.5	23.8
160°	2.2	5.8	11.6	16.6	20.2
162.5°	2.2	5.1	9.4	13.7	18.0
165°	2.2	5.1	7.9	10.8	15.2
167.5°	2.2	4.3	6.5	8.7	12.3
170°	2.2	3.6	5.8	6.5	9.4
172.5°	2.2	2.9	4.3	4.3	5.1
175°	2.2	2.9	3.6	3.6	2.2
177.5°	2.2	2.2	2.2	2.2	1.4
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)