

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: P566424

Luminaire Tested: **4SNX-45SL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566424
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-L840-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

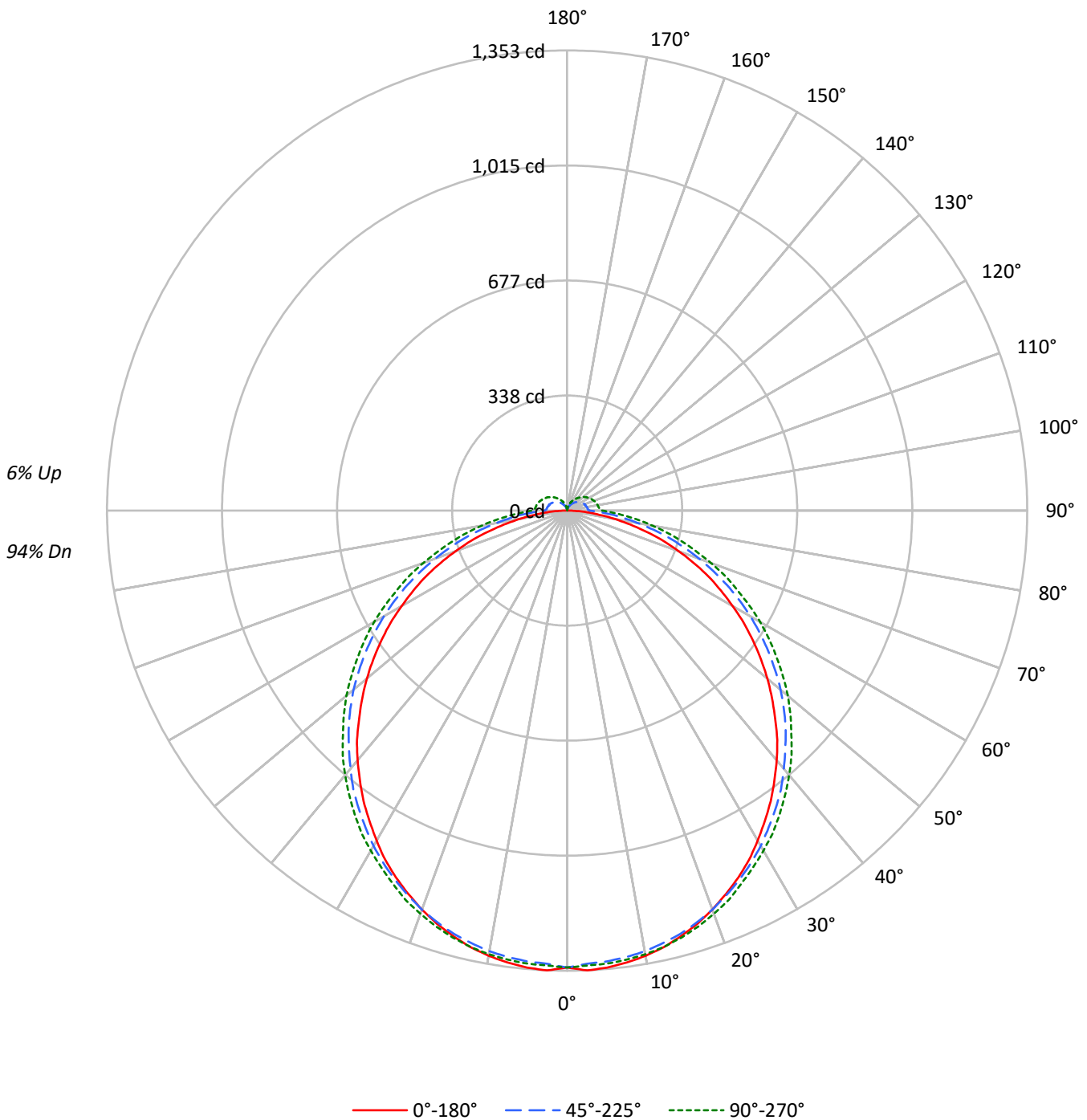
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4269.0 lumens
Efficiency: N/A
Efficacy: 143.3 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: P566424
CATALOG NUMBER: 4SNX-45SL-FDL-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566424

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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°	14460	14460	14460
5°	14559	14220	14242
10°	14499	14067	14063
15°	14391	13889	13862
20°	14243	13673	13626
25°	14073	13438	13347
30°	13842	13196	13089
35°	13610	12915	12819
40°	13353	12602	12516
45°	13029	12293	12162
50°	12716	11941	11840
55°	12330	11505	11390
60°	11893	11007	10949
65°	11433	10412	10340
70°	10641	9666	9710
75°	9684	8786	8956
80°	8276	7619	8120
85°	6511	6604	7134



TEST NUMBER: P566424

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	3.0
10°-20°	365.6	8.6
20°-30°	554.0	13.0
30°-40°	668.8	15.7
40°-50°	698.4	16.4
50°-60°	641.6	15.0
60°-70°	507.4	11.9
70°-80°	321.1	7.5
80°-90°	138.0	3.2
90°-100°	60.8	1.4
100°-110°	54.4	1.3
110°-120°	45.9	1.1
120°-130°	35.8	0.8
130°-140°	24.8	0.6
140°-150°	14.9	0.3
150°-160°	7.3	0.2
160°-170°	2.5	0.1
170°-180°	0.4	0.0
0°-30°	1047.0	24.5
0°-40°	1715.8	40.2
0°-60°	3055.8	71.6
0°-90°	4022.4	94.2
90°-120°	161.1	3.8
90°-150°	236.5	5.5
90°-180°	247.0	5.8
0°-180°	4269.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1343	1343	1343	1343	1343	
5°	1349	1345	1330	1342	1337	128
15°	1295	1295	1288	1302	1300	365
25°	1191	1196	1198	1213	1211	548
35°	1043	1055	1069	1086	1089	652
45°	865	886	909	926	932	668
55°	667	694	723	746	751	597
65°	459	485	519	543	551	452
75°	242	271	310	336	349	256
85°	59	91	130	158	168	65
90°	4	32	66	93	103	5
95°	1	28	60	85	94	1
105°	1	26	57	79	88	1
115°	1	22	51	72	79	1
125°	2	20	43	62	69	1
135°	2	15	35	49	55	1
145°	2	11	24	37	41	1
155°	2	8	16	23	28	1
165°	2	5	8	11	16	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°	1343.4	1343.4	1343.4	1343.4	1343.4
2.5°	1353.2	1348.7	1333.5	1344.1	1338.8
5°	1348.7	1344.9	1330.5	1341.9	1337.3
7.5°	1340.4	1337.3	1324.5	1336.6	1332.0
10°	1329.0	1326.7	1315.4	1327.5	1324.5
12.5°	1314.6	1313.9	1302.6	1316.2	1313.9
15°	1295.0	1295.0	1288.2	1301.8	1299.5
17.5°	1273.8	1274.6	1269.3	1283.7	1282.1
20°	1248.1	1251.9	1248.1	1263.2	1261.7
22.5°	1220.1	1225.4	1223.9	1239.0	1239.8
25°	1190.7	1196.0	1197.5	1213.3	1211.1
27.5°	1158.2	1166.5	1169.5	1183.9	1183.1
30°	1120.4	1131.7	1138.5	1150.6	1154.4
32.5°	1081.8	1095.4	1103.7	1120.4	1124.9
35°	1043.3	1055.3	1069.0	1085.6	1089.4
37.5°	1000.9	1014.5	1032.7	1048.5	1053.1
40°	958.6	973.7	991.1	1008.5	1015.3
42.5°	914.7	930.6	949.5	969.9	976.7
45°	864.8	886.0	908.7	926.1	932.1
47.5°	817.2	840.6	864.8	883.7	890.5
50°	768.8	793.8	819.5	836.9	847.5
52.5°	718.2	745.4	771.1	793.0	799.8
55°	666.8	694.0	722.7	746.2	751.4
57.5°	616.9	643.3	672.1	694.0	704.6
60°	562.4	591.2	622.2	644.1	655.4
62.5°	509.5	537.5	570.8	594.2	603.3
65°	458.9	484.6	518.6	542.8	551.1
67.5°	402.9	432.4	464.9	492.9	503.5
70°	347.8	375.7	412.8	439.2	449.8
72.5°	296.3	323.6	360.6	387.1	396.9
75°	241.9	270.6	310.0	336.4	349.3
77.5°	189.8	221.5	259.3	288.0	302.4
80°	141.4	169.3	210.2	241.9	254.8
82.5°	96.0	126.2	168.6	198.1	212.4
85°	59.0	90.7	130.0	158.0	167.8
87.5°	28.0	58.2	94.5	121.7	133.8
90°	3.8	32.5	66.5	93.0	102.8
92.5°	0.8	28.0	61.2	86.2	95.3
95°	0.8	28.0	60.5	84.7	93.7
97.5°	0.8	27.2	59.7	83.9	92.2
100°	0.8	26.5	59.0	82.4	91.5
102.5°	0.8	26.5	57.5	80.9	89.2
105°	0.8	25.7	56.7	79.4	87.7
107.5°	0.8	24.9	55.2	77.9	86.2
110°	0.8	23.4	54.4	75.6	83.9



TEST NUMBER: P566424

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	22.7	52.9	74.1	81.6
115°	0.8	21.9	51.4	71.8	79.4
117.5°	0.8	21.2	49.1	69.6	77.1
120°	1.5	21.2	47.6	67.3	74.1
122.5°	1.5	20.4	45.4	64.3	71.1
125°	1.5	19.7	43.1	62.0	68.8
127.5°	1.5	18.9	40.8	59.0	65.0
130°	1.5	17.4	39.3	55.9	62.0
132.5°	1.5	16.6	37.0	52.2	58.2
135°	1.5	15.1	34.8	49.1	55.2
137.5°	1.5	14.4	32.5	46.1	51.4
140°	1.5	13.6	29.5	43.1	48.4
142.5°	1.5	12.1	27.2	40.1	44.6
145°	1.5	11.3	24.2	37.0	40.8
147.5°	1.5	9.8	21.9	34.0	37.8
150°	1.5	9.1	19.7	31.0	34.8
152.5°	1.5	8.3	17.4	27.2	31.0
155°	1.5	7.6	15.9	23.4	28.0
157.5°	1.5	6.8	13.6	20.4	24.9
160°	2.3	6.0	12.1	17.4	21.2
162.5°	2.3	5.3	9.8	14.4	18.9
165°	2.3	5.3	8.3	11.3	15.9
167.5°	2.3	4.5	6.8	9.1	12.9
170°	2.3	3.8	6.0	6.8	9.8
172.5°	2.3	3.0	4.5	4.5	5.3
175°	2.3	3.0	3.8	3.8	2.3
177.5°	2.3	2.3	2.3	2.3	1.5
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)