

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: P566456

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-45SL-SLW-UNV-L840-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

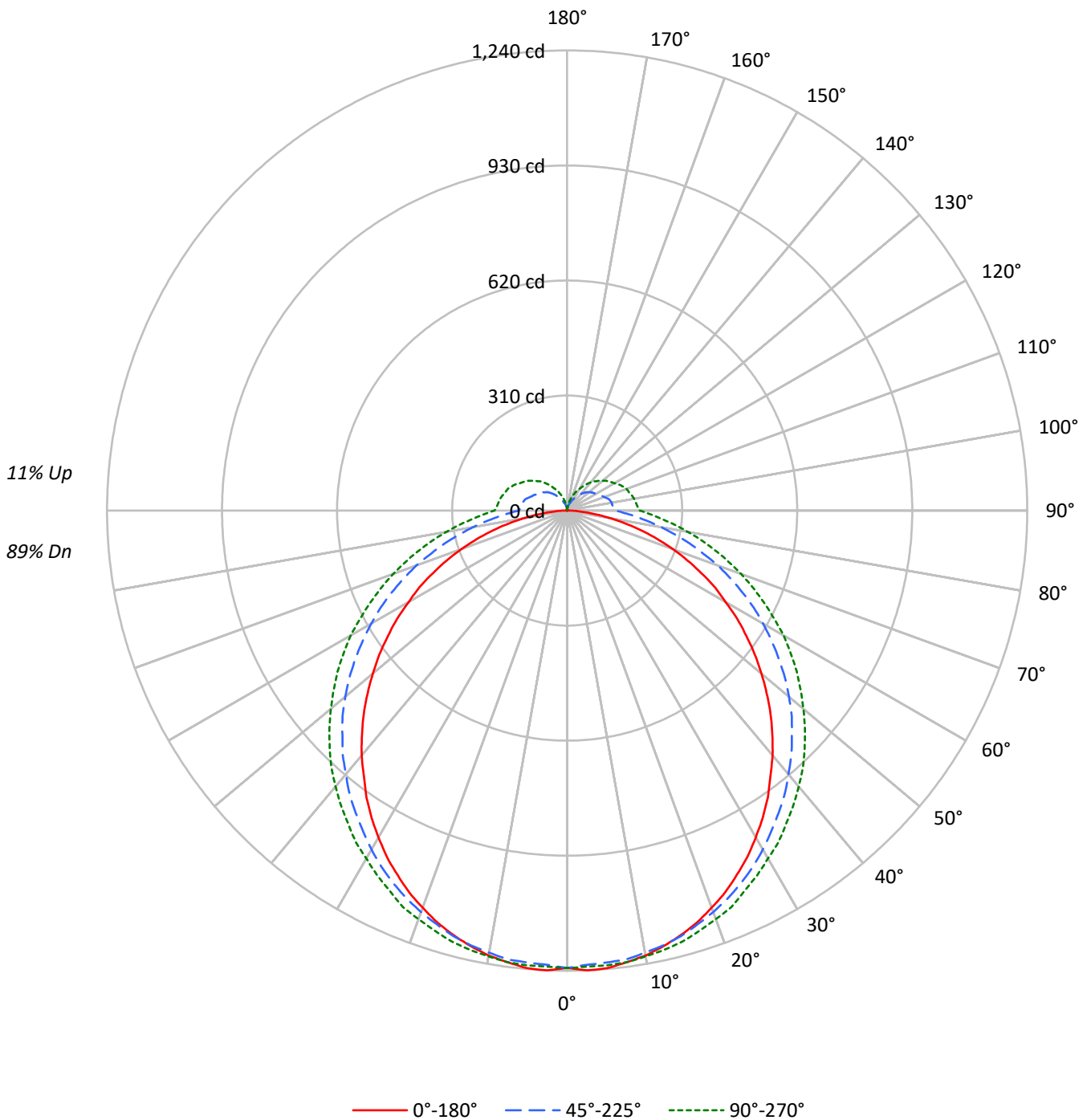
Lumens per Lamp: N/A
Luminaire Lumens: 4388.0 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

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

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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	77	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13268	13268	13268
5°	13349	12926	12916
10°	13258	12665	12596
15°	13124	12398	12301
20°	12945	12090	11973
25°	12736	11789	11631
30°	12486	11459	11292
35°	12213	11116	10974
40°	11898	10778	10669
45°	11559	10435	10340
50°	11171	10071	9972
55°	10746	9636	9609
60°	10245	9169	9205
65°	9729	8645	8696
70°	9004	8067	8198
75°	8044	7336	7647
80°	6483	6590	7104
85°	4562	5949	6545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	2.7
10°-20°	336.5	7.7
20°-30°	511.7	11.7
30°-40°	621.1	14.2
40°-50°	656.4	15.0
50°-60°	614.2	14.0
60°-70°	503.9	11.5
70°-80°	346.6	7.9
80°-90°	189.8	4.3
90°-100°	122.2	2.8
100°-110°	109.7	2.5
110°-120°	90.8	2.1
120°-130°	69.9	1.6
130°-140°	49.1	1.1
140°-150°	29.6	0.7
150°-160°	14.2	0.3
160°-170°	4.7	0.1
170°-180°	0.6	0.0
0°-30°	965.3	22.0
0°-40°	1586.4	36.2
0°-60°	2856.9	65.1
0°-90°	3897.3	88.8
90°-120°	322.7	7.4
90°-150°	471.3	10.7
90°-180°	491.0	11.2
0°-180°	4388.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1238	1235	1222	1233	1230	117
15°	1184	1189	1187	1202	1202	334
25°	1083	1095	1108	1131	1131	499
35°	943	966	994	1022	1029	589
45°	775	811	856	895	905	597
55°	590	638	696	740	755	528
65°	399	452	521	569	584	395
75°	208	264	341	394	412	219
85°	46	109	186	236	254	53
90°	0	61	130	178	196	3
95°	0	58	124	170	188	0
105°	0	48	117	160	175	2
115°	2	43	99	142	160	2
125°	2	36	84	122	137	2
135°	2	28	69	99	112	2
145°	2	20	48	76	84	2
155°	2	13	30	48	56	1
165°	2	8	15	23	28	1
175°	2	2	5	5	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1232.6	1232.6	1232.6	1232.6	1232.6
2.5°	1240.2	1237.7	1225.0	1235.1	1230.1
5°	1237.7	1235.1	1222.4	1232.6	1230.1
7.5°	1227.5	1227.5	1219.9	1230.1	1227.5
10°	1217.4	1217.4	1209.7	1222.4	1219.9
12.5°	1202.1	1204.6	1199.6	1214.8	1212.3
15°	1184.3	1189.4	1186.9	1202.1	1202.1
17.5°	1164.0	1169.1	1169.1	1186.9	1186.9
20°	1138.6	1146.2	1151.3	1171.6	1171.6
22.5°	1113.2	1123.3	1130.9	1148.7	1156.4
25°	1082.7	1095.4	1108.1	1130.9	1130.9
27.5°	1052.2	1067.4	1082.7	1105.5	1108.1
30°	1016.6	1034.4	1054.7	1077.6	1082.7
32.5°	981.0	1003.9	1024.2	1052.2	1059.8
35°	942.9	965.7	993.7	1021.7	1029.3
37.5°	899.7	927.6	963.2	993.7	1001.3
40°	861.5	892.0	927.6	963.2	970.8
42.5°	818.3	851.4	894.6	927.6	940.3
45°	775.1	810.7	856.5	894.6	904.8
47.5°	729.4	770.1	820.9	856.5	869.2
50°	683.6	726.9	780.2	820.9	831.1
52.5°	637.9	683.6	739.6	780.2	792.9
55°	589.6	637.9	696.4	739.6	754.8
57.5°	543.9	592.2	653.2	698.9	714.1
60°	493.0	549.0	609.9	655.7	673.5
62.5°	449.8	500.7	566.7	612.5	627.7
65°	399.0	452.4	521.0	569.3	584.5
67.5°	350.7	406.6	475.2	526.1	541.3
70°	302.4	358.3	432.0	480.3	498.1
72.5°	254.1	312.6	383.8	437.1	454.9
75°	208.4	264.3	340.6	393.9	411.7
77.5°	160.1	221.1	297.3	350.7	371.1
80°	116.9	180.4	256.7	310.1	330.4
82.5°	78.8	142.3	218.6	271.9	292.3
85°	45.7	109.3	185.5	236.4	254.1
87.5°	22.9	83.9	155.0	205.9	223.6
90°	0.0	61.0	129.6	177.9	195.7
92.5°	0.0	58.5	127.1	172.8	190.6
95°	0.0	58.5	124.5	170.3	188.1
97.5°	0.0	55.9	122.0	170.3	185.5
100°	0.0	53.4	122.0	167.7	183.0
102.5°	0.0	50.8	119.4	165.2	180.4
105°	0.0	48.3	116.9	160.1	175.4
107.5°	2.5	48.3	111.8	157.6	172.8
110°	2.5	45.7	106.7	155.0	170.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	43.2	101.7	149.9	165.2
115°	2.5	43.2	99.1	142.3	160.1
117.5°	2.5	40.7	94.0	137.2	155.0
120°	2.5	40.7	91.5	132.2	147.4
122.5°	2.5	38.1	86.4	127.1	142.3
125°	2.5	35.6	83.9	122.0	137.2
127.5°	2.5	33.0	81.3	116.9	132.2
130°	2.5	30.5	76.2	111.8	124.5
132.5°	2.5	30.5	73.7	104.2	119.4
135°	2.5	28.0	68.6	99.1	111.8
137.5°	2.5	25.4	63.5	94.0	106.7
140°	2.5	22.9	58.5	89.0	99.1
142.5°	2.5	22.9	53.4	81.3	91.5
145°	2.5	20.3	48.3	76.2	83.9
147.5°	2.5	17.8	43.2	68.6	76.2
150°	2.5	17.8	38.1	61.0	68.6
152.5°	2.5	15.2	33.0	55.9	63.5
155°	2.5	12.7	30.5	48.3	55.9
157.5°	2.5	12.7	25.4	40.7	48.3
160°	2.5	10.2	22.9	33.0	40.7
162.5°	2.5	10.2	20.3	28.0	35.6
165°	2.5	7.6	15.2	22.9	28.0
167.5°	2.5	7.6	12.7	17.8	22.9
170°	2.5	5.1	10.2	12.7	17.8
172.5°	2.5	5.1	7.6	7.6	7.6
175°	2.5	2.5	5.1	5.1	2.5
177.5°	2.5	2.5	2.5	2.5	2.5
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)