

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: P566461

Luminaire Tested: **4SNX-45SL-SLW-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566461
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-L950-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

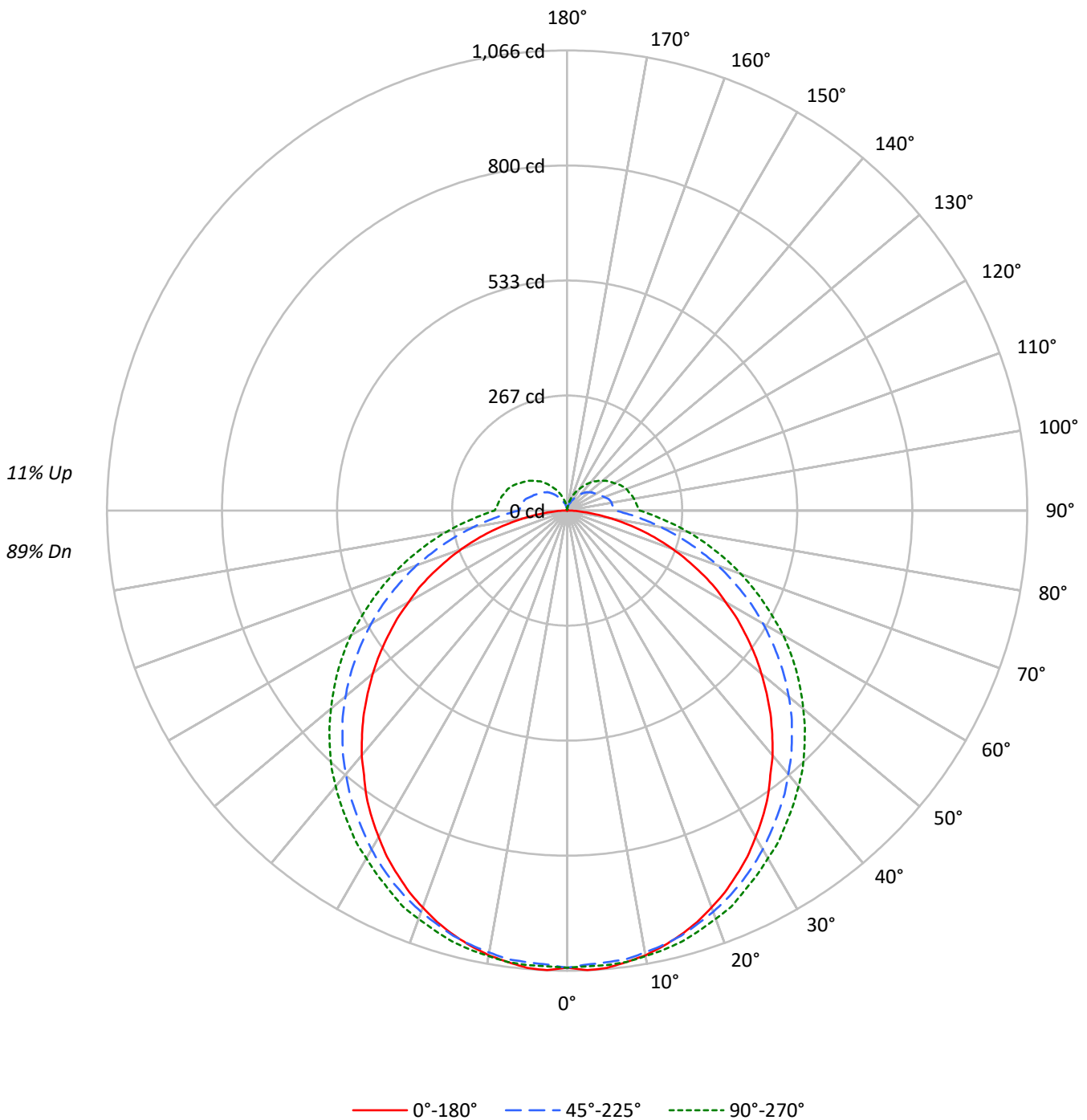
Lumens per Lamp: N/A
Luminaire Lumens: 3770.1 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

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	76	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°	11399	11399	11399
5°	11469	11106	11096
10°	11390	10882	10822
15°	11276	10651	10569
20°	11121	10387	10287
25°	10942	10129	9993
30°	10727	9845	9702
35°	10493	9551	9428
40°	10223	9261	9167
45°	9932	8965	8883
50°	9599	8653	8567
55°	9233	8279	8256
60°	8803	7877	7908
65°	8359	7427	7471
70°	7735	6932	7044
75°	6909	6302	6570
80°	5568	5661	6104
85°	3923	5112	5625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	2.7
10°-20°	289.1	7.7
20°-30°	439.6	11.7
30°-40°	533.6	14.2
40°-50°	563.9	15.0
50°-60°	527.7	14.0
60°-70°	433.0	11.5
70°-80°	297.8	7.9
80°-90°	163.1	4.3
90°-100°	105.0	2.8
100°-110°	94.2	2.5
110°-120°	78.0	2.1
120°-130°	60.1	1.6
130°-140°	42.2	1.1
140°-150°	25.4	0.7
150°-160°	12.2	0.3
160°-170°	4.0	0.1
170°-180°	0.5	0.0
0°-30°	829.3	22.0
0°-40°	1363.0	36.2
0°-60°	2454.6	65.1
0°-90°	3348.4	88.8
90°-120°	277.3	7.4
90°-150°	405.0	10.7
90°-180°	422.0	11.2
0°-180°	3770.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1063	1061	1050	1059	1057	101
15°	1018	1022	1020	1033	1033	287
25°	930	941	952	972	972	429
35°	810	830	854	878	884	506
45°	666	696	736	769	777	513
55°	507	548	598	635	648	453
65°	343	389	448	489	502	339
75°	179	227	293	338	354	189
85°	39	94	159	203	218	45
90°	0	52	111	153	168	3
95°	0	50	107	146	162	0
105°	0	42	100	138	151	1
115°	2	37	85	122	138	2
125°	2	31	72	105	118	2
135°	2	24	59	85	96	2
145°	2	18	42	66	72	1
155°	2	11	26	42	48	1
165°	2	7	13	20	24	1
175°	2	2	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°	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1065.6	1063.4	1052.5	1061.2	1056.8
5°	1063.4	1061.2	1050.3	1059.0	1056.8
7.5°	1054.6	1054.6	1048.1	1056.8	1054.6
10°	1045.9	1045.9	1039.4	1050.3	1048.1
12.5°	1032.8	1035.0	1030.6	1043.7	1041.5
15°	1017.5	1021.9	1019.7	1032.8	1032.8
17.5°	1000.0	1004.4	1004.4	1019.7	1019.7
20°	978.2	984.8	989.1	1006.6	1006.6
22.5°	956.4	965.1	971.7	986.9	993.5
25°	930.2	941.1	952.0	971.7	971.7
27.5°	904.0	917.1	930.2	949.8	952.0
30°	873.4	888.7	906.2	925.8	930.2
32.5°	842.8	862.5	880.0	904.0	910.5
35°	810.1	829.7	853.8	877.8	884.3
37.5°	773.0	797.0	827.5	853.8	860.3
40°	740.2	766.4	797.0	827.5	834.1
42.5°	703.1	731.5	768.6	797.0	807.9
45°	666.0	696.5	735.8	768.6	777.3
47.5°	626.7	661.6	705.3	735.8	746.8
50°	587.4	624.5	670.3	705.3	714.0
52.5°	548.1	587.4	635.4	670.3	681.3
55°	506.6	548.1	598.3	635.4	648.5
57.5°	467.3	508.8	561.2	600.5	613.6
60°	423.6	471.6	524.0	563.3	578.6
62.5°	386.5	430.2	486.9	526.2	539.3
65°	342.8	388.7	447.6	489.1	502.2
67.5°	301.3	349.4	408.3	452.0	465.1
70°	259.8	307.9	371.2	412.7	428.0
72.5°	218.4	268.6	329.7	375.6	390.8
75°	179.0	227.1	292.6	338.4	353.7
77.5°	137.6	190.0	255.5	301.3	318.8
80°	100.4	155.0	220.5	266.4	283.9
82.5°	67.7	122.3	187.8	233.6	251.1
85°	39.3	93.9	159.4	203.1	218.4
87.5°	19.7	72.1	133.2	176.9	192.1
90°	0.0	52.4	111.4	152.8	168.1
92.5°	0.0	50.2	109.2	148.5	163.8
95°	0.0	50.2	107.0	146.3	161.6
97.5°	0.0	48.0	104.8	146.3	159.4
100°	0.0	45.9	104.8	144.1	157.2
102.5°	0.0	43.7	102.6	141.9	155.0
105°	0.0	41.5	100.4	137.6	150.7
107.5°	2.2	41.5	96.1	135.4	148.5
110°	2.2	39.3	91.7	133.2	146.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	37.1	87.3	128.8	141.9
115°	2.2	37.1	85.2	122.3	137.6
117.5°	2.2	34.9	80.8	117.9	133.2
120°	2.2	34.9	78.6	113.5	126.6
122.5°	2.2	32.8	74.2	109.2	122.3
125°	2.2	30.6	72.1	104.8	117.9
127.5°	2.2	28.4	69.9	100.4	113.5
130°	2.2	26.2	65.5	96.1	107.0
132.5°	2.2	26.2	63.3	89.5	102.6
135°	2.2	24.0	59.0	85.2	96.1
137.5°	2.2	21.8	54.6	80.8	91.7
140°	2.2	19.7	50.2	76.4	85.2
142.5°	2.2	19.7	45.9	69.9	78.6
145°	2.2	17.5	41.5	65.5	72.1
147.5°	2.2	15.3	37.1	59.0	65.5
150°	2.2	15.3	32.8	52.4	59.0
152.5°	2.2	13.1	28.4	48.0	54.6
155°	2.2	10.9	26.2	41.5	48.0
157.5°	2.2	10.9	21.8	34.9	41.5
160°	2.2	8.7	19.7	28.4	34.9
162.5°	2.2	8.7	17.5	24.0	30.6
165°	2.2	6.6	13.1	19.7	24.0
167.5°	2.2	6.6	10.9	15.3	19.7
170°	2.2	4.4	8.7	10.9	15.3
172.5°	2.2	4.4	6.6	6.6	6.6
175°	2.2	2.2	4.4	4.4	2.2
177.5°	2.2	2.2	2.2	2.2	2.2
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)