

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: P566552

Luminaire Tested: **4SNX-51SL-SLW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566552
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-51SL-SLW-UNV-L840-CD
Description: 4FT 5100 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

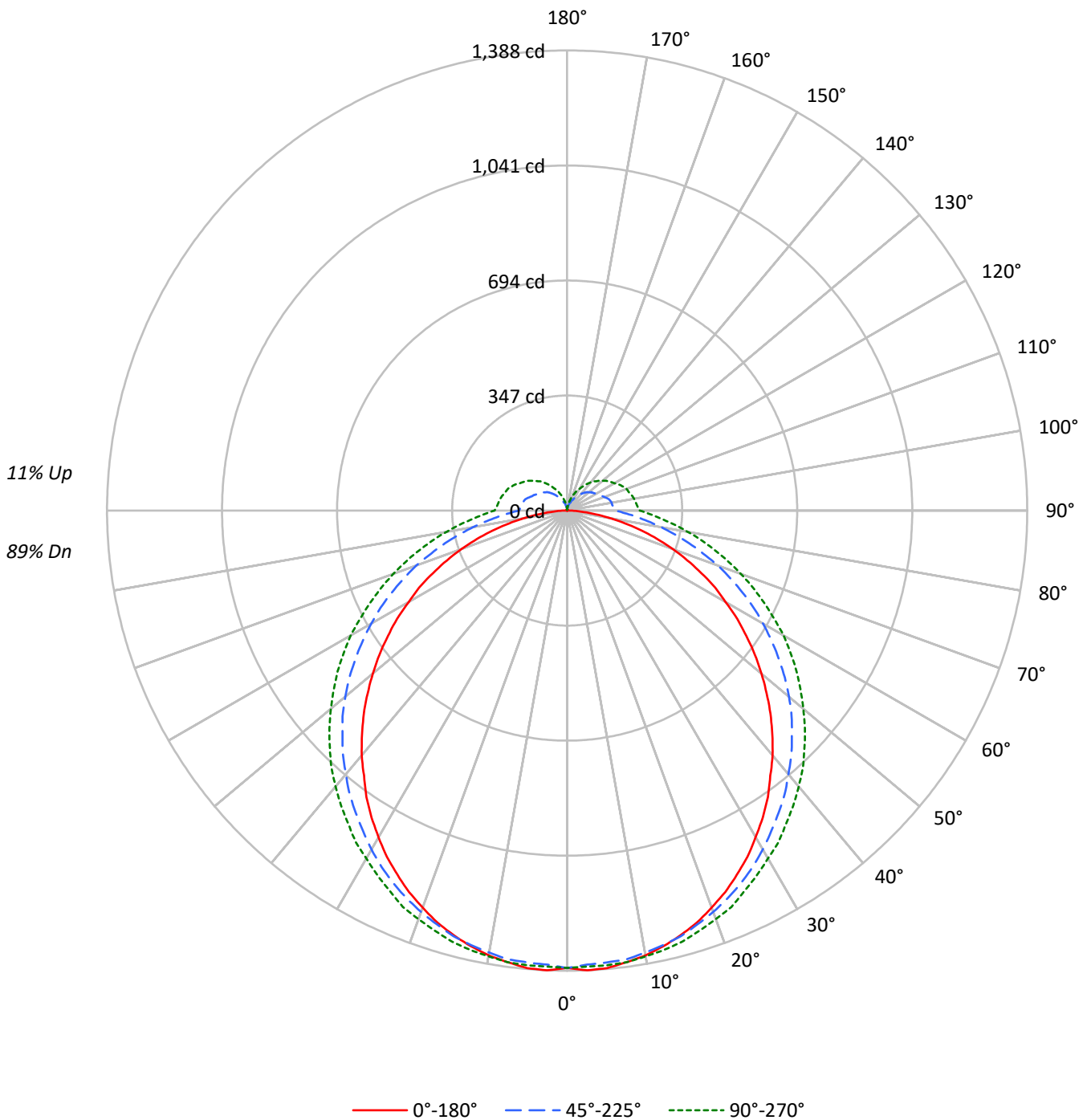
Lumens per Lamp: N/A
Luminaire Lumens: 4910.9 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 35
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°	14849	14849	14849
5°	14940	14467	14455
10°	14837	14175	14097
15°	14689	13875	13768
20°	14487	13531	13400
25°	14253	13194	13017
30°	13973	12824	12638
35°	13668	12441	12282
40°	13316	12063	11940
45°	12937	11678	11572
50°	12503	11272	11160
55°	12027	10785	10755
60°	11467	10262	10303
65°	10890	9676	9733
70°	10079	9029	9176
75°	9001	8208	8559
80°	7254	7375	7951
85°	5111	6658	7325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	2.7
10°-20°	376.6	7.7
20°-30°	572.7	11.7
30°-40°	695.2	14.2
40°-50°	734.6	15.0
50°-60°	687.4	14.0
60°-70°	564.0	11.5
70°-80°	387.9	7.9
80°-90°	212.4	4.3
90°-100°	136.8	2.8
100°-110°	122.7	2.5
110°-120°	101.6	2.1
120°-130°	78.2	1.6
130°-140°	55.0	1.1
140°-150°	33.1	0.7
150°-160°	15.9	0.3
160°-170°	5.2	0.1
170°-180°	0.6	0.0
0°-30°	1080.3	22.0
0°-40°	1775.5	36.2
0°-60°	3197.4	65.1
0°-90°	4361.8	88.8
90°-120°	361.2	7.4
90°-150°	527.5	10.7
90°-180°	549.0	11.2
0°-180°	4910.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1385	1382	1368	1380	1377	131
15°	1326	1331	1328	1345	1345	374
25°	1212	1226	1240	1266	1266	558
35°	1055	1081	1112	1143	1152	659
45°	868	907	958	1001	1013	669
55°	660	714	779	828	845	591
65°	447	506	583	637	654	442
75°	233	296	381	441	461	246
85°	51	122	208	264	284	59
90°	0	68	145	199	219	4
95°	0	65	139	191	210	0
105°	0	54	131	179	196	2
115°	3	48	111	159	179	3
125°	3	40	94	136	154	3
135°	3	31	77	111	125	2
145°	3	23	54	85	94	2
155°	3	14	34	54	63	1
165°	3	8	17	26	31	1
175°	3	3	6	6	3	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1379.5	1379.5	1379.5	1379.5	1379.5
2.5°	1388.0	1385.2	1371.0	1382.4	1376.7
5°	1385.2	1382.4	1368.1	1379.5	1376.7
7.5°	1373.8	1373.8	1365.3	1376.7	1373.8
10°	1362.4	1362.4	1353.9	1368.1	1365.3
12.5°	1345.4	1348.2	1342.5	1359.6	1356.8
15°	1325.5	1331.2	1328.3	1345.4	1345.4
17.5°	1302.7	1308.4	1308.4	1328.3	1328.3
20°	1274.3	1282.8	1288.5	1311.2	1311.2
22.5°	1245.8	1257.2	1265.7	1285.6	1294.2
25°	1211.7	1225.9	1240.1	1265.7	1265.7
27.5°	1177.6	1194.6	1211.7	1237.3	1240.1
30°	1137.7	1157.7	1180.4	1206.0	1211.7
32.5°	1097.9	1123.5	1146.3	1177.6	1186.1
35°	1055.3	1080.9	1112.1	1143.4	1152.0
37.5°	1006.9	1038.2	1078.0	1112.1	1120.7
40°	964.2	998.4	1038.2	1078.0	1086.5
42.5°	915.9	952.9	1001.2	1038.2	1052.4
45°	867.5	907.3	958.5	1001.2	1012.6
47.5°	816.3	861.8	918.7	958.5	972.8
50°	765.1	813.5	873.2	918.7	930.1
52.5°	713.9	765.1	827.7	873.2	887.4
55°	659.9	713.9	779.4	827.7	844.8
57.5°	608.7	662.7	731.0	782.2	799.3
60°	551.8	614.4	682.6	733.8	753.8
62.5°	503.5	560.3	634.3	685.5	702.6
65°	446.6	506.3	583.1	637.1	654.2
67.5°	392.5	455.1	531.9	588.8	605.8
70°	338.5	401.1	483.5	537.6	557.5
72.5°	284.4	349.9	429.5	489.2	509.1
75°	233.2	295.8	381.1	440.9	460.8
77.5°	179.2	247.5	332.8	392.5	415.3
80°	130.8	201.9	287.3	347.0	369.8
82.5°	88.2	159.3	244.6	304.3	327.1
85°	51.2	122.3	207.6	264.5	284.4
87.5°	25.6	93.9	173.5	230.4	250.3
90°	0.0	68.3	145.1	199.1	219.0
92.5°	0.0	65.4	142.2	193.4	213.3
95°	0.0	65.4	139.4	190.6	210.5
97.5°	0.0	62.6	136.5	190.6	207.6
100°	0.0	59.7	136.5	187.7	204.8
102.5°	0.0	56.9	133.7	184.9	201.9
105°	0.0	54.0	130.8	179.2	196.3
107.5°	2.8	54.0	125.2	176.3	193.4
110°	2.8	51.2	119.5	173.5	190.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	48.4	113.8	167.8	184.9
115°	2.8	48.4	110.9	159.3	179.2
117.5°	2.8	45.5	105.2	153.6	173.5
120°	2.8	45.5	102.4	147.9	165.0
122.5°	2.8	42.7	96.7	142.2	159.3
125°	2.8	39.8	93.9	136.5	153.6
127.5°	2.8	37.0	91.0	130.8	147.9
130°	2.8	34.1	85.3	125.2	139.4
132.5°	2.8	34.1	82.5	116.6	133.7
135°	2.8	31.3	76.8	110.9	125.2
137.5°	2.8	28.4	71.1	105.2	119.5
140°	2.8	25.6	65.4	99.6	110.9
142.5°	2.8	25.6	59.7	91.0	102.4
145°	2.8	22.8	54.0	85.3	93.9
147.5°	2.8	19.9	48.4	76.8	85.3
150°	2.8	19.9	42.7	68.3	76.8
152.5°	2.8	17.1	37.0	62.6	71.1
155°	2.8	14.2	34.1	54.0	62.6
157.5°	2.8	14.2	28.4	45.5	54.0
160°	2.8	11.4	25.6	37.0	45.5
162.5°	2.8	11.4	22.8	31.3	39.8
165°	2.8	8.5	17.1	25.6	31.3
167.5°	2.8	8.5	14.2	19.9	25.6
170°	2.8	5.7	11.4	14.2	19.9
172.5°	2.8	5.7	8.5	8.5	8.5
175°	2.8	2.8	5.7	5.7	2.8
177.5°	2.8	2.8	2.8	2.8	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)