

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: P284642

Luminaire Tested: **8SNLED-LD5-96SL-SLW-UNV-L930-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P284642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-96SL-SLW-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7616.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

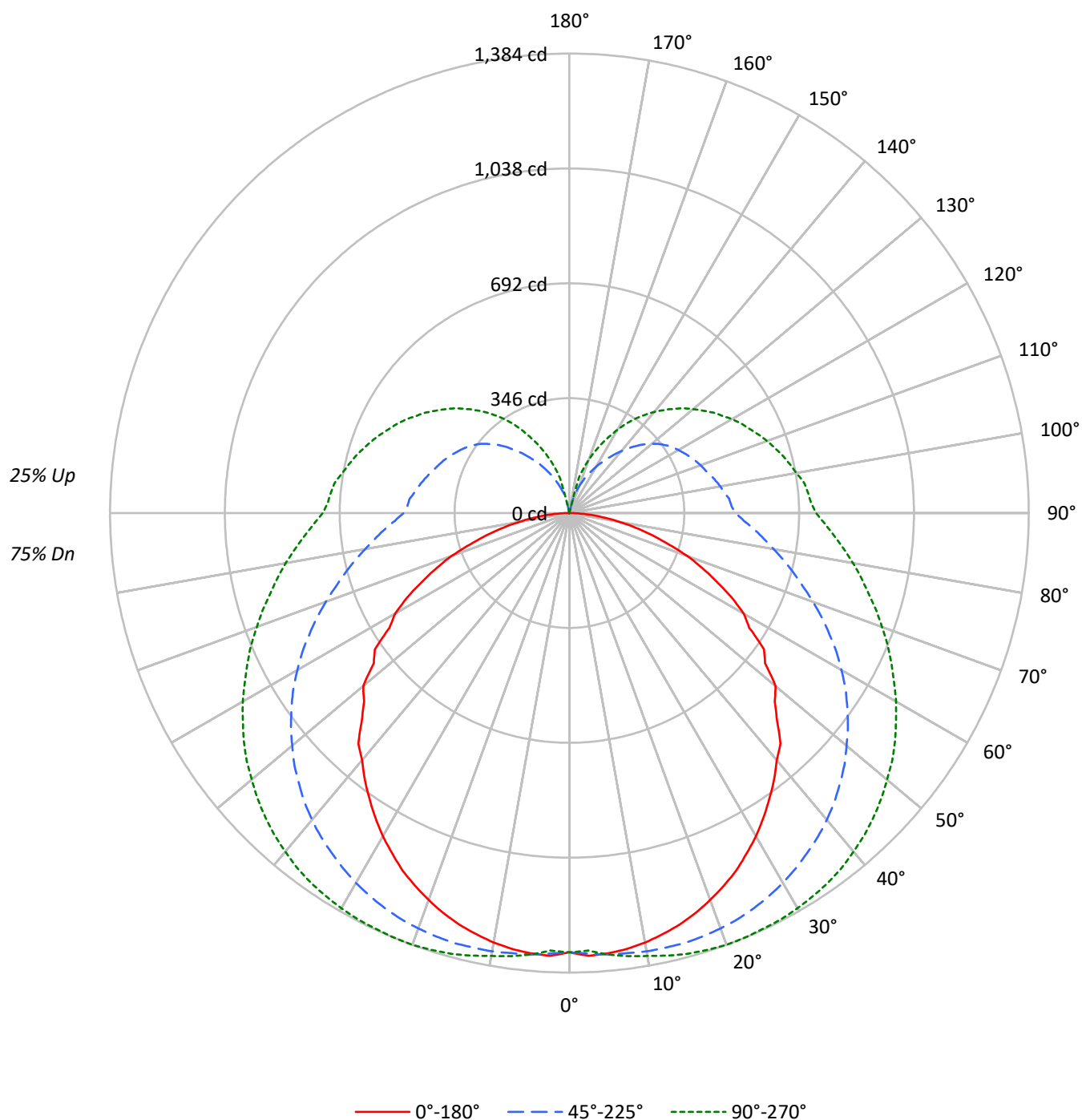
Input Watts (W): 92
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79			75
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60			56
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48			44
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39			36
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33			30
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28			25
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24			22
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21			19
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19			17
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17			15
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15			13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5345	5345	5345
5°	5393	5286	5242
10°	5375	5245	5213
15°	5345	5221	5224
20°	5302	5201	5234
25°	5260	5188	5242
30°	5196	5176	5270
35°	5125	5163	5306
40°	5059	5165	5340
45°	4975	5158	5383
50°	5003	5154	5426
55°	4932	5161	5490
60°	4773	5173	5565
65°	4535	5189	5669
70°	4278	5239	5828
75°	3804	5377	6063
80°	3294	5658	6454
85°	2604	6222	7025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	1.7
10°-20°	376.8	4.9
20°-30°	598.8	7.9
30°-40°	768.5	10.1
40°-50°	867.8	11.4
50°-60°	885.5	11.6
60°-70°	820.4	10.8
70°-80°	694.6	9.1
80°-90°	554.4	7.3
90°-100°	470.8	6.2
100°-110°	419.4	5.5
110°-120°	357.2	4.7
120°-130°	283.7	3.7
130°-140°	201.3	2.6
140°-150°	120.2	1.6
150°-160°	56.0	0.7
160°-170°	13.3	0.2
170°-180°	0.0	0.0
0°-30°	1102.7	14.5
0°-40°	1871.2	24.6
0°-60°	3624.6	47.6
0°-90°	5693.9	74.8
90°-120°	1247.5	16.4
90°-150°	1852.7	24.3
90°-180°	1922.0	25.2
0°-180°	7616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1331	1321	1335	1335	1335	126
15°	1283	1294	1341	1365	1374	362
25°	1188	1228	1314	1360	1382	547
35°	1050	1128	1249	1326	1358	658
45°	884	1004	1152	1253	1296	687
55°	716	836	1022	1147	1197	628
65°	490	653	864	1013	1070	487
75°	258	456	700	872	932	274
85°	66	294	558	739	802	72
90°	3	240	499	680	743	5
95°	0	226	483	660	721	0
105°	0	208	440	607	666	0
115°	0	193	401	546	599	0
125°	0	167	356	482	528	0
135°	0	124	286	406	444	0
145°	0	81	200	304	347	1
155°	2	50	124	186	231	1
165°	2	27	56	77	109	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1322.8	1322.8	1322.8	1322.8	1322.8
2.5°	1334.8	1320.8	1328.1	1326.1	1318.9
5°	1331.4	1320.8	1334.8	1334.8	1334.8
7.5°	1324.2	1317.0	1336.8	1344.0	1345.9
10°	1313.6	1313.6	1340.6	1351.2	1354.6
12.5°	1299.1	1304.4	1340.6	1356.6	1365.3
15°	1283.2	1293.8	1340.6	1365.3	1374.4
17.5°	1263.4	1281.2	1336.8	1367.2	1379.7
20°	1240.2	1267.2	1331.4	1367.2	1383.6
22.5°	1215.1	1249.3	1324.2	1363.8	1383.6
25°	1188.5	1227.6	1313.6	1359.9	1381.7
27.5°	1156.1	1206.4	1301.0	1354.6	1379.7
30°	1123.8	1181.3	1286.5	1347.4	1374.4
32.5°	1088.0	1154.2	1268.7	1336.8	1367.2
35°	1050.4	1127.7	1249.3	1326.1	1358.5
37.5°	1012.7	1095.3	1229.5	1311.6	1347.4
40°	971.7	1062.9	1206.4	1293.8	1331.4
42.5°	941.2	1029.1	1181.3	1275.9	1315.5
45°	884.3	1004.0	1152.3	1252.7	1295.7
47.5°	839.3	955.7	1123.8	1229.5	1274.0
50°	810.8	916.1	1090.0	1202.5	1249.3
52.5°	742.8	889.6	1057.6	1175.9	1225.7
55°	715.7	836.0	1021.9	1147.0	1197.2
57.5°	642.3	798.3	986.2	1115.1	1166.8
60°	606.6	746.1	946.6	1082.7	1136.3
62.5°	551.0	701.7	907.4	1047.0	1102.5
65°	490.2	653.4	864.5	1012.7	1070.2
67.5°	433.2	605.1	823.4	977.0	1037.8
70°	377.7	554.9	780.4	941.2	1002.1
72.5°	312.9	504.7	738.9	907.4	968.3
75°	257.9	456.4	699.8	871.7	932.5
77.5°	203.8	410.0	662.1	839.3	900.2
80°	154.1	365.1	624.4	805.5	867.8
82.5°	107.2	327.4	590.6	773.2	834.0
85°	66.2	293.6	558.3	738.9	801.7
87.5°	30.4	263.2	525.9	707.0	771.2
90°	3.4	240.0	499.4	680.0	742.8
92.5°	1.9	232.8	488.7	667.4	728.3
95°	0.0	225.5	483.4	660.2	721.0
97.5°	0.0	218.3	470.9	649.5	712.3
100°	0.0	214.9	461.7	633.6	694.5
102.5°	0.0	209.6	451.1	619.1	680.0
105°	0.0	207.7	440.4	606.6	666.0
107.5°	0.0	203.8	429.3	590.6	649.5
110°	0.0	200.4	420.6	576.1	633.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	197.0	411.5	562.1	617.2
115°	0.0	193.2	400.8	545.7	599.3
117.5°	0.0	187.9	390.2	529.8	583.4
120°	0.0	180.6	379.6	515.3	565.5
122.5°	0.0	173.4	368.5	497.4	545.7
125°	0.0	166.6	355.9	481.5	527.8
127.5°	0.0	155.5	341.9	463.6	506.6
130°	0.0	144.9	324.0	445.7	486.8
132.5°	1.9	134.3	306.2	425.9	467.0
135°	0.0	123.6	286.4	406.1	443.8
137.5°	0.0	114.5	264.6	384.9	420.6
140°	0.0	103.8	243.4	359.8	397.5
142.5°	0.0	91.3	222.1	332.7	372.3
145°	0.0	80.6	200.4	304.2	347.2
147.5°	1.9	71.5	180.6	273.8	320.2
150°	1.9	64.2	161.3	243.4	289.8
152.5°	1.9	57.5	141.5	214.9	259.3
155°	1.9	50.2	123.6	185.9	230.8
157.5°	1.9	43.0	103.8	157.4	200.4
160°	1.9	37.7	86.0	132.3	171.9
162.5°	1.9	32.4	70.0	103.8	141.5
165°	1.9	27.0	55.5	76.8	109.1
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)