

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: P284641

Luminaire Tested: **8SNLED-LD5-90SL-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: P284641
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-LD5-90SL-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: 7096.0 lumens
Efficiency: N/A
Efficacy: 86.5 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

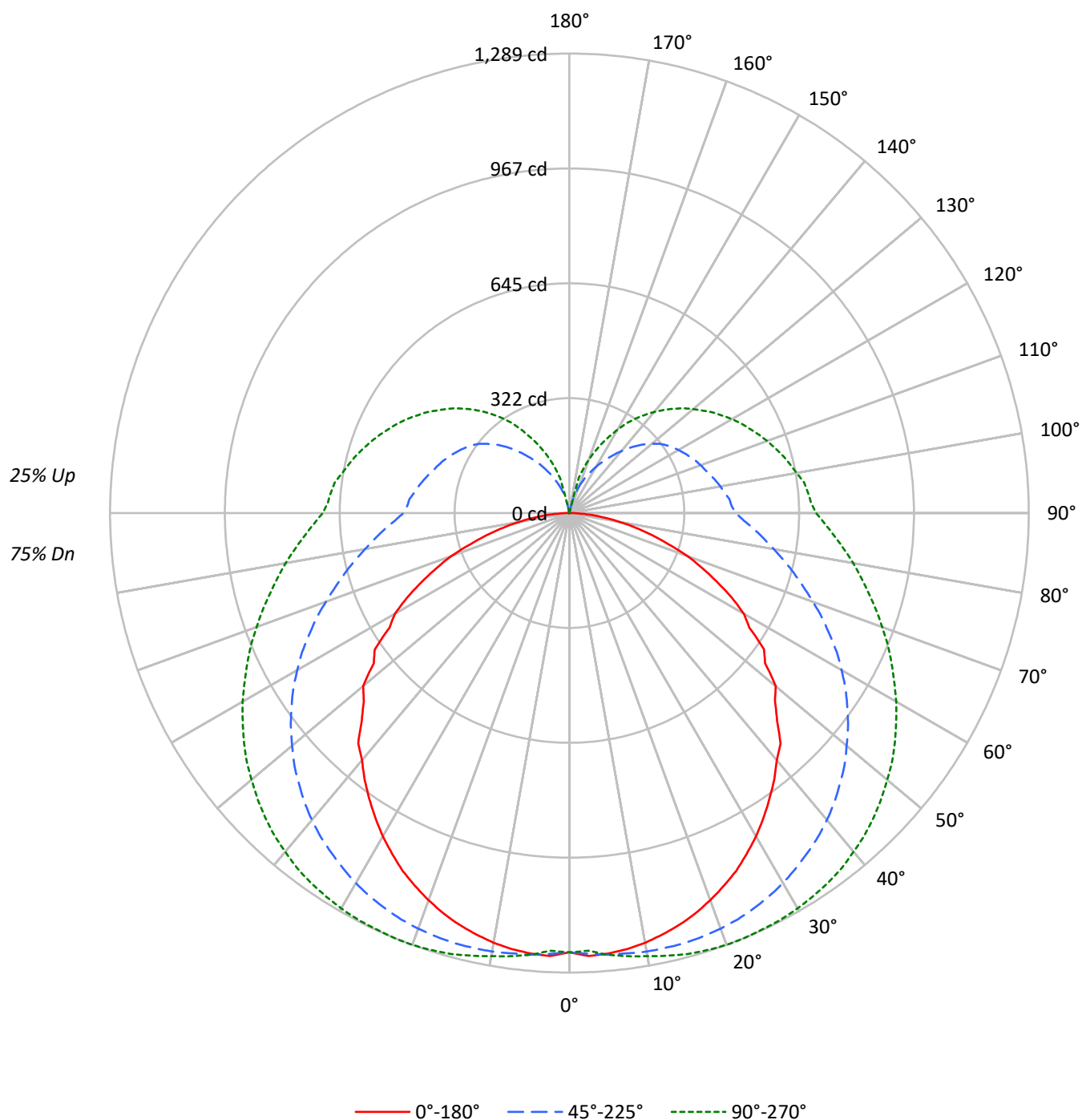
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	4980	4980	4980
5°	5025	4925	4884
10°	5008	4887	4857
15°	4980	4865	4867
20°	4940	4846	4877
25°	4901	4833	4884
30°	4842	4823	4911
35°	4775	4810	4944
40°	4713	4812	4976
45°	4635	4806	5015
50°	4662	4802	5055
55°	4595	4808	5116
60°	4447	4819	5185
65°	4225	4834	5281
70°	3986	4882	5430
75°	3545	5010	5650
80°	3067	5272	6013
85°	2423	5797	6545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	1.7
10°-20°	351.0	4.9
20°-30°	557.9	7.9
30°-40°	716.0	10.1
40°-50°	808.6	11.4
50°-60°	825.1	11.6
60°-70°	764.4	10.8
70°-80°	647.1	9.1
80°-90°	516.6	7.3
90°-100°	438.6	6.2
100°-110°	390.8	5.5
110°-120°	332.9	4.7
120°-130°	264.4	3.7
130°-140°	187.6	2.6
140°-150°	112.0	1.6
150°-160°	52.2	0.7
160°-170°	12.4	0.2
170°-180°	0.0	0.0
0°-30°	1027.4	14.5
0°-40°	1743.4	24.6
0°-60°	3377.1	47.6
0°-90°	5305.2	74.8
90°-120°	1162.3	16.4
90°-150°	1726.2	24.3
90°-180°	1791.0	25.2
0°-180°	7096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1240	1231	1244	1244	1244	118
15°	1196	1205	1249	1272	1281	337
25°	1107	1144	1224	1267	1287	510
35°	979	1051	1164	1236	1266	613
45°	824	936	1074	1167	1207	640
55°	667	779	952	1069	1116	585
65°	457	609	805	944	997	453
75°	240	425	652	812	869	256
85°	62	274	520	688	747	67
90°	3	224	465	634	692	5
95°	0	210	450	615	672	0
105°	0	194	410	565	620	0
115°	0	180	374	508	558	0
125°	0	155	332	449	492	0
135°	0	115	267	378	414	0
145°	0	75	187	284	324	1
155°	2	47	115	173	215	1
165°	2	25	52	72	102	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°	1232.4	1232.4	1232.4	1232.4	1232.4
2.5°	1243.7	1230.6	1237.4	1235.6	1228.8
5°	1240.5	1230.6	1243.7	1243.7	1243.7
7.5°	1233.8	1227.0	1245.5	1252.2	1254.0
10°	1223.9	1223.9	1249.1	1259.0	1262.1
12.5°	1210.4	1215.3	1249.1	1263.9	1272.0
15°	1195.5	1205.4	1249.1	1272.0	1280.6
17.5°	1177.1	1193.7	1245.5	1273.8	1285.5
20°	1155.5	1180.7	1240.5	1273.8	1289.1
22.5°	1132.1	1164.0	1233.8	1270.7	1289.1
25°	1107.4	1143.8	1223.9	1267.1	1287.3
27.5°	1077.2	1124.0	1212.2	1262.1	1285.5
30°	1047.1	1100.6	1198.7	1255.4	1280.6
32.5°	1013.8	1075.4	1182.0	1245.5	1273.8
35°	978.7	1050.7	1164.0	1235.6	1265.7
37.5°	943.6	1020.5	1145.6	1222.1	1255.4
40°	905.3	990.4	1124.0	1205.4	1240.5
42.5°	877.0	958.9	1100.6	1188.8	1225.7
45°	823.9	935.5	1073.6	1167.2	1207.2
47.5°	782.0	890.5	1047.1	1145.6	1187.0
50°	755.5	853.6	1015.6	1120.4	1164.0
52.5°	692.0	828.8	985.4	1095.7	1142.0
55°	666.8	778.9	952.1	1068.7	1115.5
57.5°	598.4	743.8	918.8	1039.0	1087.1
60°	565.2	695.2	881.9	1008.8	1058.8
62.5°	513.4	653.8	845.5	975.5	1027.3
65°	456.7	608.8	805.4	943.6	997.1
67.5°	403.6	563.8	767.2	910.3	967.0
70°	351.9	517.0	727.1	877.0	933.7
72.5°	291.6	470.2	688.4	845.5	902.2
75°	240.3	425.2	652.0	812.2	868.9
77.5°	189.9	382.0	616.9	782.0	838.7
80°	143.5	340.2	581.8	750.5	808.6
82.5°	99.9	305.1	550.3	720.4	777.1
85°	61.6	273.6	520.2	688.4	746.9
87.5°	28.3	245.2	490.0	658.7	718.6
90°	3.1	223.6	465.3	633.5	692.0
92.5°	1.8	216.9	455.4	621.8	678.5
95°	0.0	210.1	450.4	615.1	671.8
97.5°	0.0	203.4	438.7	605.2	663.7
100°	0.0	200.2	430.2	590.3	647.0
102.5°	0.0	195.3	420.3	576.8	633.5
105°	0.0	193.5	410.4	565.2	620.5
107.5°	0.0	189.9	400.0	550.3	605.2
110°	0.0	186.7	391.9	536.8	590.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	183.6	383.4	523.8	575.0
115°	0.0	180.0	373.5	508.5	558.4
117.5°	0.0	175.0	363.6	493.6	543.6
120°	0.0	168.3	353.7	480.1	526.9
122.5°	0.0	161.5	343.3	463.5	508.5
125°	0.0	155.2	331.6	448.6	491.8
127.5°	0.0	144.9	318.6	432.0	472.0
130°	0.0	135.0	301.9	415.3	453.6
132.5°	1.8	125.1	285.3	396.9	435.1
135°	0.0	115.2	266.8	378.4	413.5
137.5°	0.0	106.6	246.6	358.6	391.9
140°	0.0	96.7	226.8	335.2	370.3
142.5°	0.0	85.0	207.0	310.0	346.9
145°	0.0	75.1	186.7	283.5	323.5
147.5°	1.8	66.6	168.3	255.1	298.3
150°	1.8	59.8	150.3	226.8	270.0
152.5°	1.8	53.5	131.8	200.2	241.6
155°	1.8	46.8	115.2	173.2	215.1
157.5°	1.8	40.0	96.7	146.7	186.7
160°	1.8	35.1	80.1	123.3	160.2
162.5°	1.8	30.1	65.2	96.7	131.8
165°	1.8	25.2	51.7	71.5	101.7
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)