

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: P284598

Luminaire Tested: **8SNLED-LD5-64SL-SLW-UNV-L850-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: P284598
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-LD5-64SL-SLW-UNV-L850-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: 6531.0 lumens
Efficiency: N/A
Efficacy: 118.7 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

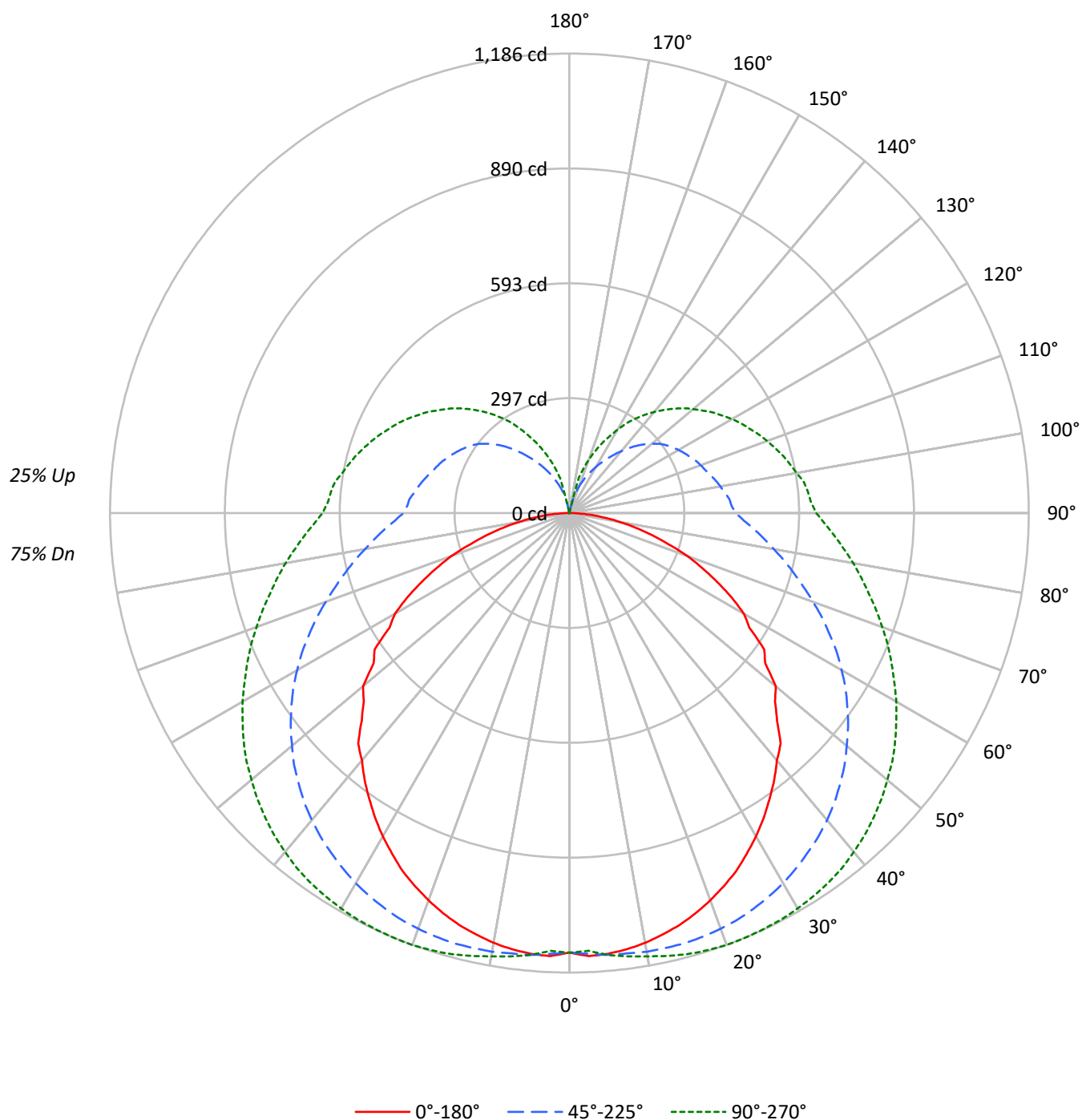
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4583	4583	4583
5°	4625	4533	4495
10°	4609	4497	4470
15°	4584	4477	4480
20°	4547	4461	4488
25°	4511	4448	4495
30°	4456	4439	4519
35°	4395	4428	4550
40°	4338	4429	4580
45°	4266	4423	4616
50°	4291	4419	4653
55°	4229	4426	4708
60°	4093	4435	4772
65°	3888	4449	4861
70°	3669	4493	4997
75°	3261	4611	5200
80°	2824	4852	5534
85°	2230	5334	6024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	1.7
10°-20°	323.1	4.9
20°-30°	513.5	7.9
30°-40°	659.0	10.1
40°-50°	744.2	11.4
50°-60°	759.4	11.6
60°-70°	703.5	10.8
70°-80°	595.6	9.1
80°-90°	475.4	7.3
90°-100°	403.7	6.2
100°-110°	359.7	5.5
110°-120°	306.4	4.7
120°-130°	243.3	3.7
130°-140°	172.6	2.6
140°-150°	103.1	1.6
150°-160°	48.1	0.7
160°-170°	11.4	0.2
170°-180°	0.0	0.0
0°-30°	945.6	14.5
0°-40°	1604.6	24.6
0°-60°	3108.2	47.6
0°-90°	4882.8	74.8
90°-120°	1069.8	16.4
90°-150°	1588.8	24.3
90°-180°	1648.0	25.2
0°-180°	6531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1142	1133	1145	1145	1145	108
15°	1100	1110	1150	1171	1179	310
25°	1019	1053	1126	1166	1185	469
35°	901	967	1071	1137	1165	564
45°	758	861	988	1074	1111	589
55°	614	717	876	984	1027	539
65°	420	560	741	868	918	417
75°	221	391	600	748	800	235
85°	57	252	479	634	688	62
90°	3	206	428	583	637	5
95°	0	193	414	566	618	0
105°	0	178	378	520	571	0
115°	0	166	344	468	514	0
125°	0	143	305	413	453	0
135°	0	106	246	348	381	0
145°	0	69	172	261	298	1
155°	2	43	106	159	198	1
165°	2	23	48	66	94	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°	1134.3	1134.3	1134.3	1134.3	1134.3
2.5°	1144.7	1132.7	1138.9	1137.2	1131.0
5°	1141.8	1132.7	1144.7	1144.7	1144.7
7.5°	1135.6	1129.3	1146.3	1152.5	1154.2
10°	1126.4	1126.4	1149.6	1158.7	1161.6
12.5°	1114.0	1118.6	1149.6	1163.3	1170.8
15°	1100.4	1109.5	1149.6	1170.8	1178.6
17.5°	1083.4	1098.7	1146.3	1172.4	1183.2
20°	1063.5	1086.7	1141.8	1172.4	1186.5
22.5°	1042.0	1071.4	1135.6	1169.5	1186.5
25°	1019.2	1052.7	1126.4	1166.2	1184.8
27.5°	991.4	1034.5	1115.7	1161.6	1183.2
30°	963.7	1013.0	1103.3	1155.4	1178.6
32.5°	933.0	989.8	1087.9	1146.3	1172.4
35°	900.7	967.0	1071.4	1137.2	1165.0
37.5°	868.4	939.3	1054.4	1124.8	1155.4
40°	833.2	911.5	1034.5	1109.5	1141.8
42.5°	807.1	882.5	1013.0	1094.1	1128.1
45°	758.3	861.0	988.1	1074.3	1111.1
47.5°	719.8	819.6	963.7	1054.4	1092.5
50°	695.3	785.6	934.7	1031.2	1071.4
52.5°	636.9	762.8	907.0	1008.4	1051.1
55°	613.7	716.9	876.3	983.6	1026.6
57.5°	550.8	684.6	845.7	956.2	1000.5
60°	520.2	639.8	811.7	928.5	974.5
62.5°	472.5	601.7	778.2	897.8	945.5
65°	420.3	560.3	741.3	868.4	917.7
67.5°	371.5	518.9	706.1	837.8	890.0
70°	323.9	475.8	669.2	807.1	859.3
72.5°	268.4	432.8	633.6	778.2	830.3
75°	221.1	391.4	600.1	747.5	799.7
77.5°	174.8	351.6	567.8	719.8	771.9
80°	132.1	313.1	535.5	690.8	744.2
82.5°	91.9	280.8	506.5	663.0	715.2
85°	56.7	251.8	478.7	633.6	687.5
87.5°	26.1	225.7	451.0	606.3	661.4
90°	2.9	205.8	428.2	583.1	636.9
92.5°	1.7	199.6	419.1	572.3	624.5
95°	0.0	193.4	414.5	566.1	618.3
97.5°	0.0	187.2	403.8	557.0	610.8
100°	0.0	184.3	395.9	543.3	595.5
102.5°	0.0	179.7	386.8	530.9	583.1
105°	0.0	178.1	377.7	520.2	571.1
107.5°	0.0	174.8	368.2	506.5	557.0
110°	0.0	171.9	360.7	494.1	543.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	169.0	352.8	482.1	529.3
115°	0.0	165.7	343.7	468.0	513.9
117.5°	0.0	161.1	334.6	454.3	500.3
120°	0.0	154.9	325.5	441.9	485.0
122.5°	0.0	148.7	316.0	426.6	468.0
125°	0.0	142.9	305.2	412.9	452.6
127.5°	0.0	133.4	293.2	397.6	434.4
130°	0.0	124.2	277.9	382.2	417.4
132.5°	1.7	115.1	262.6	365.3	400.5
135°	0.0	106.0	245.6	348.3	380.6
137.5°	0.0	98.1	226.9	330.1	360.7
140°	0.0	89.0	208.7	308.5	340.8
142.5°	0.0	78.3	190.5	285.3	319.3
145°	0.0	69.2	171.9	260.9	297.8
147.5°	1.7	61.3	154.9	234.8	274.6
150°	1.7	55.1	138.3	208.7	248.5
152.5°	1.7	49.3	121.3	184.3	222.4
155°	1.7	43.1	106.0	159.4	198.0
157.5°	1.7	36.9	89.0	135.0	171.9
160°	1.7	32.3	73.7	113.5	147.4
162.5°	1.7	27.7	60.0	89.0	121.3
165°	1.7	23.2	47.6	65.8	93.6
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)