

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: P284511

Luminaire Tested: **4SNLED-LD5-70SL-SLW-UNV-L835-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: P284511
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: 4SNLED-LD5-70SL-SLW-UNV-L835-CD1-U
Description: 4FT 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: 7033.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

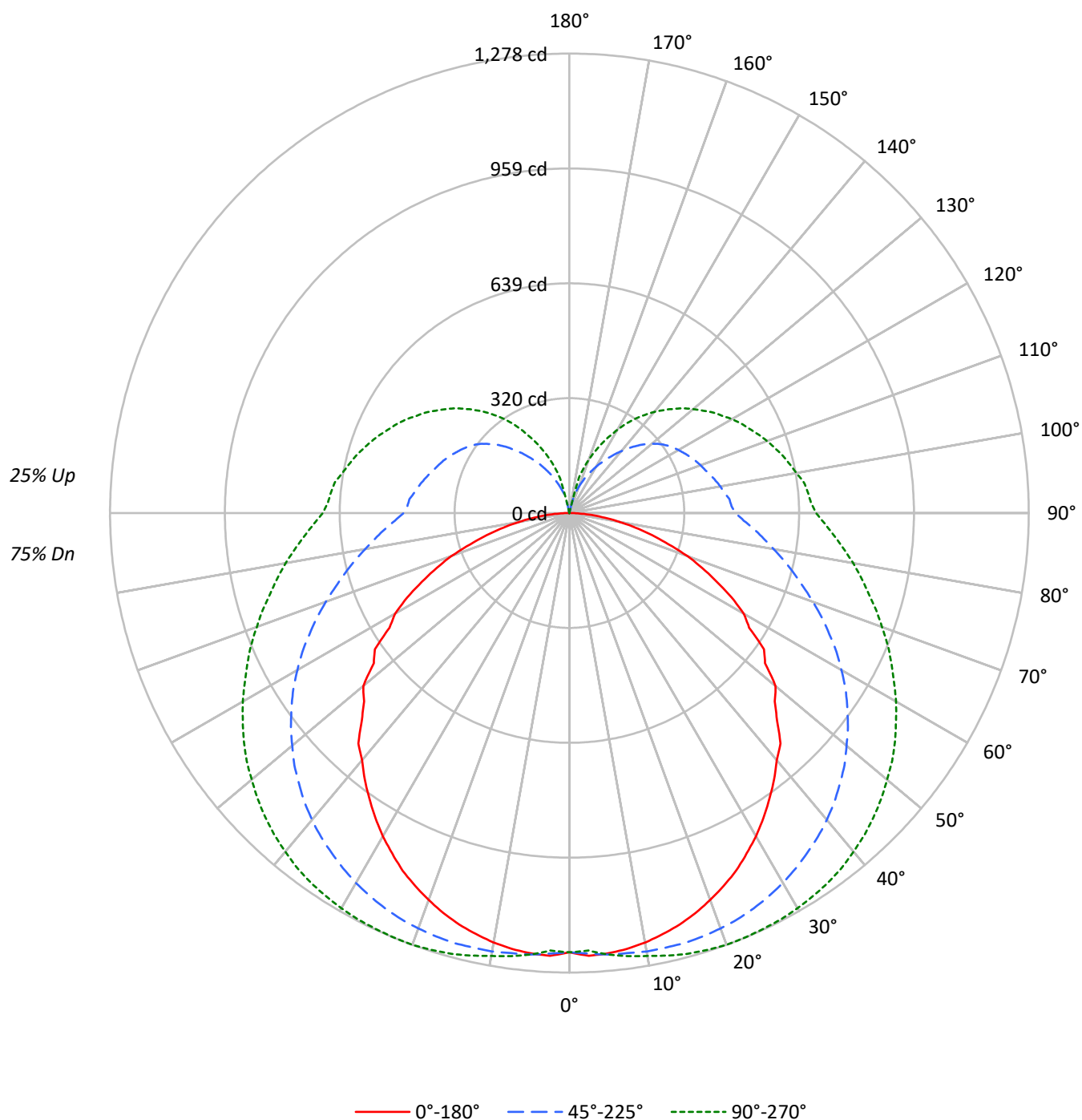
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9871	9871	9871
5°	9946	9753	9681
10°	9899	9668	9627
15°	9831	9616	9648
20°	9738	9572	9667
25°	9645	9537	9682
30°	9512	9508	9734
35°	9364	9474	9800
40°	9224	9467	9863
45°	9050	9445	9942
50°	9076	9424	10021
55°	8913	9425	10139
60°	8588	9431	10278
65°	8113	9442	10470
70°	7587	9513	10764
75°	6658	9732	11199
80°	5625	10200	11920
85°	4174	11151	12974



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	1.7
10°-20°	347.9	4.9
20°-30°	553.0	7.9
30°-40°	709.7	10.1
40°-50°	801.4	11.4
50°-60°	817.8	11.6
60°-70°	757.6	10.8
70°-80°	641.4	9.1
80°-90°	512.0	7.3
90°-100°	434.8	6.2
100°-110°	387.3	5.5
110°-120°	329.9	4.7
120°-130°	262.0	3.7
130°-140°	185.9	2.6
140°-150°	111.0	1.6
150°-160°	51.8	0.7
160°-170°	12.3	0.2
170°-180°	0.0	0.0
0°-30°	1018.2	14.5
0°-40°	1727.9	24.6
0°-60°	3347.1	47.6
0°-90°	5258.1	74.8
90°-120°	1152.0	16.4
90°-150°	1710.9	24.3
90°-180°	1775.0	25.2
0°-180°	7033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1222	1222	1222	1222	1222	
5°	1230	1220	1233	1233	1233	117
15°	1185	1195	1238	1261	1269	334
25°	1098	1134	1213	1256	1276	505
35°	970	1041	1154	1225	1254	607
45°	817	927	1064	1157	1196	634
55°	661	772	944	1059	1106	580
65°	453	603	798	935	988	449
75°	238	421	646	805	861	253
85°	61	271	516	682	740	67
90°	3	222	461	628	686	5
95°	0	208	446	610	666	0
105°	0	192	407	560	615	0
115°	0	178	370	504	553	0
125°	0	154	329	445	487	0
135°	0	114	264	375	410	0
145°	0	74	185	281	321	1
155°	2	46	114	172	213	1
165°	2	25	51	71	101	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°	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1232.6	1219.7	1226.4	1224.6	1217.9
5°	1229.5	1219.7	1232.6	1232.6	1232.6
7.5°	1222.8	1216.1	1234.4	1241.1	1242.9
10°	1213.0	1213.0	1238.0	1247.8	1250.9
12.5°	1199.6	1204.6	1238.0	1252.7	1260.7
15°	1184.9	1194.7	1238.0	1260.7	1269.2
17.5°	1166.6	1183.1	1234.4	1262.5	1274.1
20°	1145.2	1170.2	1229.5	1262.5	1277.7
22.5°	1122.0	1153.7	1222.8	1259.4	1277.7
25°	1097.5	1133.6	1213.0	1255.8	1275.9
27.5°	1067.6	1114.0	1201.4	1250.9	1274.1
30°	1037.8	1090.8	1188.1	1244.2	1269.2
32.5°	1004.8	1065.9	1171.6	1234.4	1262.5
35°	970.0	1041.3	1153.7	1224.6	1254.5
37.5°	935.2	1011.4	1135.4	1211.2	1244.2
40°	897.3	981.6	1114.0	1194.7	1229.5
42.5°	869.2	950.4	1090.8	1178.2	1214.8
45°	816.6	927.2	1064.1	1156.8	1196.5
47.5°	775.1	882.6	1037.8	1135.4	1176.5
50°	748.8	846.0	1006.5	1110.5	1153.7
52.5°	685.9	821.5	976.7	1085.9	1131.9
55°	660.9	772.0	943.7	1059.2	1105.5
57.5°	593.1	737.2	910.7	1029.7	1077.5
60°	560.1	689.0	874.1	999.9	1049.4
62.5°	508.8	648.0	838.0	966.9	1018.1
65°	452.7	603.4	798.3	935.2	988.3
67.5°	400.0	558.8	760.4	902.2	958.4
70°	348.7	512.4	720.7	869.2	925.4
72.5°	289.0	466.0	682.3	838.0	894.2
75°	238.1	421.4	646.2	805.0	861.2
77.5°	188.2	378.6	611.4	775.1	831.3
80°	142.3	337.1	576.6	743.9	801.4
82.5°	99.0	302.4	545.4	714.0	770.2
85°	61.1	271.1	515.5	682.3	740.3
87.5°	28.1	243.1	485.7	652.9	712.2
90°	3.1	221.6	461.1	627.9	685.9
92.5°	1.8	215.0	451.3	616.3	672.5
95°	0.0	208.3	446.4	609.6	665.8
97.5°	0.0	201.6	434.8	599.8	657.8
100°	0.0	198.5	426.3	585.1	641.3
102.5°	0.0	193.5	416.5	571.7	627.9
105°	0.0	191.8	406.7	560.1	615.0
107.5°	0.0	188.2	396.5	545.4	599.8
110°	0.0	185.1	388.4	532.0	585.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	182.0	380.0	519.1	569.9
115°	0.0	178.4	370.2	503.9	553.4
117.5°	0.0	173.5	360.3	489.2	538.7
120°	0.0	166.8	350.5	475.8	522.2
122.5°	0.0	160.1	340.3	459.3	503.9
125°	0.0	153.9	328.7	444.6	487.4
127.5°	0.0	143.6	315.7	428.1	467.8
130°	0.0	133.8	299.2	411.6	449.5
132.5°	1.8	124.0	282.7	393.3	431.2
135°	0.0	114.2	264.5	375.1	409.8
137.5°	0.0	105.7	244.4	355.4	388.4
140°	0.0	95.9	224.8	332.2	367.0
142.5°	0.0	84.3	205.1	307.3	343.8
145°	0.0	74.5	185.1	281.0	320.6
147.5°	1.8	66.0	166.8	252.9	295.7
150°	1.8	59.3	149.0	224.8	267.6
152.5°	1.8	53.1	130.7	198.5	239.5
155°	1.8	46.4	114.2	171.7	213.2
157.5°	1.8	39.7	95.9	145.4	185.1
160°	1.8	34.8	79.4	122.2	158.8
162.5°	1.8	29.9	64.7	95.9	130.7
165°	1.8	25.0	51.3	70.9	100.8
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)