

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: P284550

Luminaire Tested: **4SNLED-LD5-70SL-SLW-UNV-L840-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: P284550
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-L840-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: 7152.0 lumens
Efficiency: N/A
Efficacy: 84.1 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

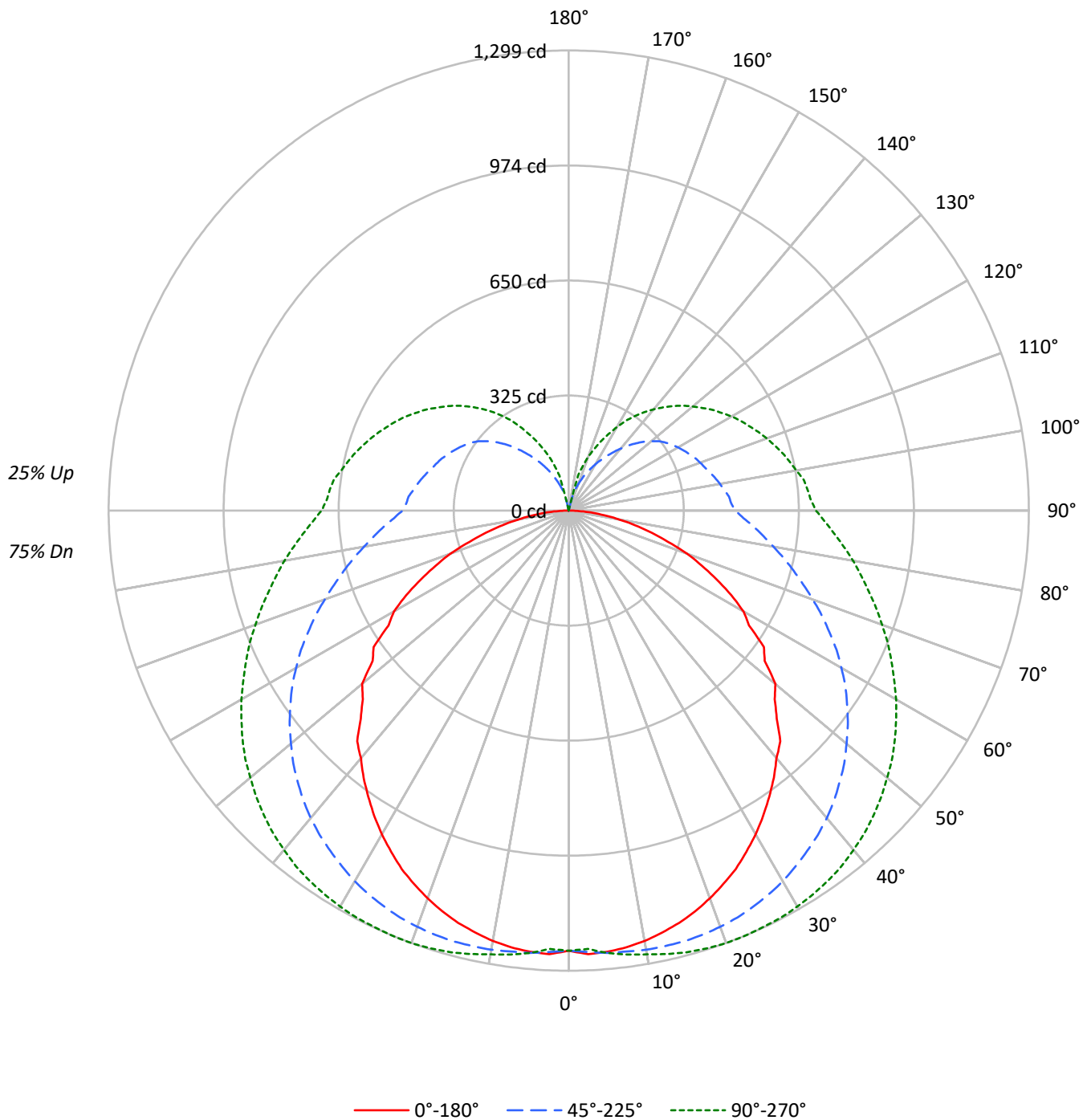
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10038	10038	10038
5°	10115	9919	9845
10°	10067	9832	9790
15°	9997	9779	9811
20°	9903	9734	9830
25°	9809	9699	9846
30°	9673	9669	9898
35°	9523	9634	9966
40°	9380	9628	10030
45°	9202	9605	10111
50°	9229	9584	10191
55°	9065	9584	10312
60°	8733	9590	10451
65°	8249	9602	10647
70°	7716	9674	10945
75°	6772	9897	11388
80°	5720	10374	12122
85°	4242	11341	13193



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	1.7
10°-20°	353.8	4.9
20°-30°	562.3	7.9
30°-40°	721.7	10.1
40°-50°	815.0	11.4
50°-60°	831.6	11.6
60°-70°	770.4	10.8
70°-80°	652.3	9.1
80°-90°	520.6	7.3
90°-100°	442.1	6.2
100°-110°	393.9	5.5
110°-120°	335.5	4.7
120°-130°	266.5	3.7
130°-140°	189.0	2.6
140°-150°	112.9	1.6
150°-160°	52.6	0.7
160°-170°	12.5	0.2
170°-180°	0.0	0.0
0°-30°	1035.5	14.5
0°-40°	1757.2	24.6
0°-60°	3403.8	47.6
0°-90°	5347.1	74.8
90°-120°	1171.5	16.4
90°-150°	1739.8	24.3
90°-180°	1805.0	25.2
0°-180°	7152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1250	1240	1254	1254	1254	119
15°	1205	1215	1259	1282	1291	340
25°	1116	1153	1234	1277	1298	514
35°	986	1059	1173	1245	1276	618
45°	830	943	1082	1176	1217	645
55°	672	785	960	1077	1124	590
65°	460	614	812	951	1005	457
75°	242	429	657	819	876	258
85°	62	276	524	694	753	68
90°	3	225	469	638	698	5
95°	0	212	454	620	677	0
105°	0	195	414	570	625	0
115°	0	181	376	512	563	0
125°	0	156	334	452	496	0
135°	0	116	269	381	417	0
145°	0	76	188	286	326	1
155°	2	47	116	175	217	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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CATALOG NUMBER: 4SNLED-LD5-70SL-SLW-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.2	1242.2	1242.2	1242.2	1242.2
2.5°	1253.5	1240.4	1247.2	1245.3	1238.5
5°	1250.3	1240.4	1253.5	1253.5	1253.5
7.5°	1243.5	1236.7	1255.3	1262.1	1263.9
10°	1233.6	1233.6	1258.9	1268.9	1272.1
12.5°	1219.9	1224.9	1258.9	1273.9	1282.1
15°	1205.0	1215.0	1258.9	1282.1	1290.7
17.5°	1186.4	1203.2	1255.3	1283.9	1295.7
20°	1164.6	1190.0	1250.3	1283.9	1299.3
22.5°	1141.0	1173.2	1243.5	1280.7	1299.3
25°	1116.1	1152.8	1233.6	1277.1	1297.5
27.5°	1085.7	1132.9	1221.8	1272.1	1295.7
30°	1055.3	1109.3	1208.2	1265.3	1290.7
32.5°	1021.8	1083.9	1191.4	1255.3	1283.9
35°	986.4	1058.9	1173.2	1245.3	1275.7
37.5°	951.0	1028.6	1154.6	1231.7	1265.3
40°	912.5	998.2	1132.9	1215.0	1250.3
42.5°	883.9	966.4	1109.3	1198.2	1235.4
45°	830.4	942.8	1082.1	1176.4	1216.8
47.5°	788.2	897.5	1055.3	1154.6	1196.4
50°	761.4	860.3	1023.6	1129.2	1173.2
52.5°	697.5	835.4	993.2	1104.3	1151.0
55°	672.1	785.0	959.6	1077.1	1124.3
57.5°	603.2	749.7	926.1	1047.2	1095.7
60°	569.6	700.7	888.9	1016.8	1067.1
62.5°	517.5	659.0	852.1	983.2	1035.4
65°	460.3	613.6	811.8	951.0	1005.0
67.5°	406.8	568.2	773.2	917.5	974.6
70°	354.6	521.1	732.9	883.9	941.0
72.5°	293.9	473.9	693.9	852.1	909.3
75°	242.2	428.6	657.1	818.6	875.7
77.5°	191.4	385.0	621.8	788.2	845.3
80°	144.7	342.9	586.4	756.5	815.0
82.5°	100.7	307.5	554.6	726.1	783.2
85°	62.1	275.7	524.3	693.9	752.8
87.5°	28.6	247.2	493.9	663.9	724.3
90°	3.2	225.4	468.9	638.5	697.5
92.5°	1.8	218.6	459.0	626.8	683.9
95°	0.0	211.8	454.0	619.9	677.1
97.5°	0.0	205.0	442.2	610.0	668.9
100°	0.0	201.8	433.6	595.0	652.1
102.5°	0.0	196.8	423.6	581.4	638.5
105°	0.0	195.0	413.6	569.6	625.4
107.5°	0.0	191.4	403.2	554.6	610.0
110°	0.0	188.2	395.0	541.0	595.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	185.0	386.4	527.9	579.6
115°	0.0	181.4	376.4	512.5	562.8
117.5°	0.0	176.4	366.4	497.5	547.8
120°	0.0	169.6	356.5	483.9	531.1
122.5°	0.0	162.8	346.0	467.1	512.5
125°	0.0	156.5	334.2	452.2	495.7
127.5°	0.0	146.0	321.1	435.4	475.7
130°	0.0	136.1	304.3	418.6	457.1
132.5°	1.8	126.1	287.5	400.0	438.5
135°	0.0	116.1	268.9	381.4	416.8
137.5°	0.0	107.5	248.5	361.4	395.0
140°	0.0	97.5	228.6	337.9	373.2
142.5°	0.0	85.7	208.6	312.5	349.7
145°	0.0	75.7	188.2	285.7	326.1
147.5°	1.8	67.1	169.6	257.1	300.7
150°	1.8	60.3	151.5	228.6	272.1
152.5°	1.8	54.0	132.9	201.8	243.5
155°	1.8	47.2	116.1	174.6	216.8
157.5°	1.8	40.4	97.5	147.8	188.2
160°	1.8	35.4	80.7	124.3	161.5
162.5°	1.8	30.4	65.8	97.5	132.9
165°	1.8	25.4	52.2	72.1	102.5
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)