

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: P284599

Luminaire Tested: **8SNLED-LD5-70SL-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: P284599
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-LD5-70SL-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: 7106.0 lumens
Efficiency: N/A
Efficacy: 116.5 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

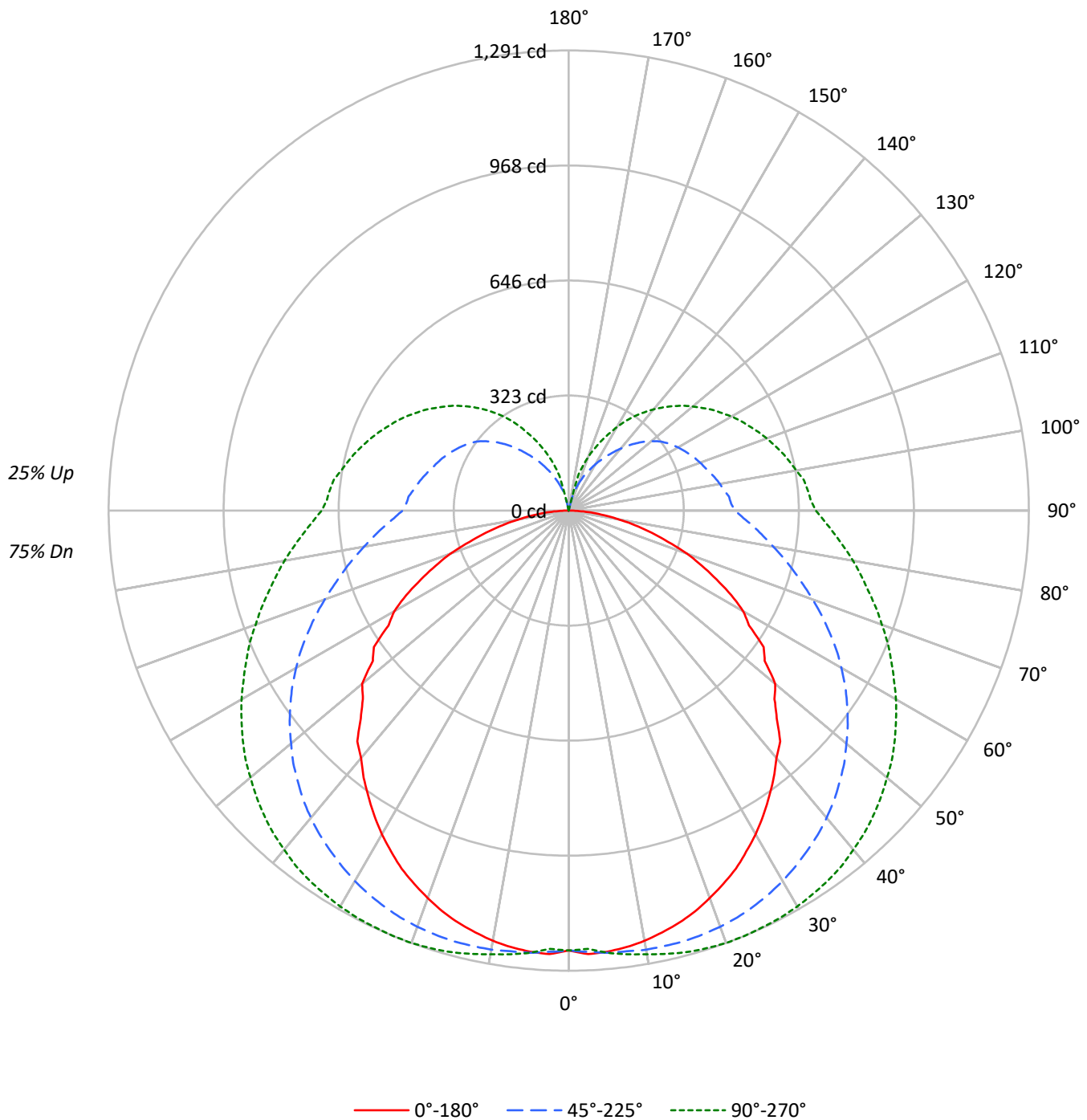
Input Watts (W): 61
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4987	4987	4987
5°	5032	4932	4891
10°	5015	4894	4864
15°	4987	4872	4874
20°	4947	4853	4884
25°	4908	4840	4891
30°	4848	4830	4917
35°	4782	4817	4951
40°	4720	4819	4983
45°	4642	4813	5023
50°	4668	4808	5063
55°	4602	4815	5122
60°	4453	4826	5192
65°	4231	4841	5289
70°	3992	4889	5438
75°	3549	5016	5658
80°	3071	5279	6021
85°	2427	5805	6555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.7
10°-20°	351.5	4.9
20°-30°	558.7	7.9
30°-40°	717.0	10.1
40°-50°	809.7	11.4
50°-60°	826.2	11.6
60°-70°	765.5	10.8
70°-80°	648.1	9.1
80°-90°	517.3	7.3
90°-100°	439.3	6.2
100°-110°	391.4	5.5
110°-120°	333.3	4.7
120°-130°	264.7	3.7
130°-140°	187.8	2.6
140°-150°	112.1	1.6
150°-160°	52.3	0.7
160°-170°	12.4	0.2
170°-180°	0.0	0.0
0°-30°	1028.8	14.5
0°-40°	1745.9	24.6
0°-60°	3381.8	47.6
0°-90°	5312.7	74.8
90°-120°	1163.9	16.4
90°-150°	1728.7	24.3
90°-180°	1793.0	25.2
0°-180°	7106.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1242	1232	1245	1245	1245	118
15°	1197	1207	1251	1274	1282	338
25°	1109	1145	1226	1269	1289	510
35°	980	1052	1166	1237	1268	614
45°	825	937	1075	1169	1209	641
55°	668	780	954	1070	1117	586
65°	457	610	807	945	998	454
75°	241	426	653	813	870	256
85°	62	274	521	689	748	67
90°	3	224	466	634	693	5
95°	0	210	451	616	673	0
105°	0	194	411	566	621	0
115°	0	180	374	509	559	0
125°	0	156	332	449	492	0
135°	0	115	267	379	414	0
145°	0	75	187	284	324	1
155°	2	47	115	174	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°	1234.2	1234.2	1234.2	1234.2	1234.2
2.5°	1245.4	1232.4	1239.1	1237.3	1230.6
5°	1242.3	1232.4	1245.4	1245.4	1245.4
7.5°	1235.5	1228.8	1247.2	1254.0	1255.8
10°	1225.6	1225.6	1250.9	1260.8	1263.9
12.5°	1212.1	1217.1	1250.9	1265.7	1273.8
15°	1197.2	1207.1	1250.9	1273.8	1282.4
17.5°	1178.8	1195.4	1247.2	1275.6	1287.3
20°	1157.1	1182.4	1242.3	1275.6	1291.0
22.5°	1133.7	1165.7	1235.5	1272.5	1291.0
25°	1108.9	1145.4	1225.6	1268.9	1289.2
27.5°	1078.7	1125.6	1213.9	1263.9	1287.3
30°	1048.5	1102.2	1200.4	1257.2	1282.4
32.5°	1015.2	1076.9	1183.7	1247.2	1275.6
35°	980.0	1052.1	1165.7	1237.3	1267.5
37.5°	944.9	1021.9	1147.2	1223.8	1257.2
40°	906.6	991.8	1125.6	1207.1	1242.3
42.5°	878.2	960.2	1102.2	1190.5	1227.4
45°	825.0	936.8	1075.1	1168.8	1208.9
47.5°	783.1	891.7	1048.5	1147.2	1188.7
50°	756.5	854.8	1017.0	1122.0	1165.7
52.5°	693.0	830.0	986.8	1097.2	1143.6
55°	667.8	780.0	953.5	1070.2	1117.0
57.5°	599.3	744.8	920.1	1040.4	1088.6
60°	565.9	696.2	883.2	1010.2	1060.2
62.5°	514.1	654.7	846.7	976.9	1028.7
65°	457.4	609.7	806.6	944.9	998.5
67.5°	404.2	564.6	768.3	911.6	968.3
70°	352.4	517.7	728.2	878.2	935.0
72.5°	292.0	470.9	689.4	846.7	903.4
75°	240.6	425.8	652.9	813.3	870.1
77.5°	190.2	382.6	617.8	783.1	839.9
80°	143.7	340.6	582.6	751.6	809.7
82.5°	100.0	305.5	551.1	721.4	778.2
85°	61.7	274.0	520.9	689.4	748.0
87.5°	28.4	245.6	490.7	659.7	719.6
90°	3.2	223.9	465.9	634.4	693.0
92.5°	1.8	217.2	456.0	622.7	679.5
95°	0.0	210.4	451.0	616.0	672.7
97.5°	0.0	203.7	439.3	606.0	664.6
100°	0.0	200.5	430.8	591.2	648.0
102.5°	0.0	195.6	420.9	577.7	634.4
105°	0.0	193.8	410.9	565.9	621.4
107.5°	0.0	190.2	400.6	551.1	606.0
110°	0.0	187.0	392.5	537.6	591.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	183.8	383.9	524.5	575.9
115°	0.0	180.2	374.0	509.2	559.2
117.5°	0.0	175.3	364.1	494.3	544.3
120°	0.0	168.5	354.2	480.8	527.6
122.5°	0.0	161.8	343.8	464.1	509.2
125°	0.0	155.5	332.1	449.2	492.5
127.5°	0.0	145.1	319.0	432.6	472.7
130°	0.0	135.2	302.3	415.9	454.2
132.5°	1.8	125.3	285.7	397.4	435.7
135°	0.0	115.4	267.2	378.9	414.1
137.5°	0.0	106.8	246.9	359.1	392.5
140°	0.0	96.9	227.1	335.7	370.8
142.5°	0.0	85.2	207.3	310.5	347.4
145°	0.0	75.2	187.0	283.9	324.0
147.5°	1.8	66.7	168.5	255.5	298.7
150°	1.8	59.9	150.5	227.1	270.4
152.5°	1.8	53.6	132.0	200.5	242.0
155°	1.8	46.9	115.4	173.5	215.4
157.5°	1.8	40.1	96.9	146.9	187.0
160°	1.8	35.1	80.2	123.5	160.4
162.5°	1.8	30.2	65.3	96.9	132.0
165°	1.8	25.2	51.8	71.6	101.8
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)