

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: P284677

Luminaire Tested: **8SNLED-LD5-70SL-SLW-UNV-L935-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: P284677
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-L935-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: 5869.0 lumens
Efficiency: N/A
Efficacy: 96.2 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

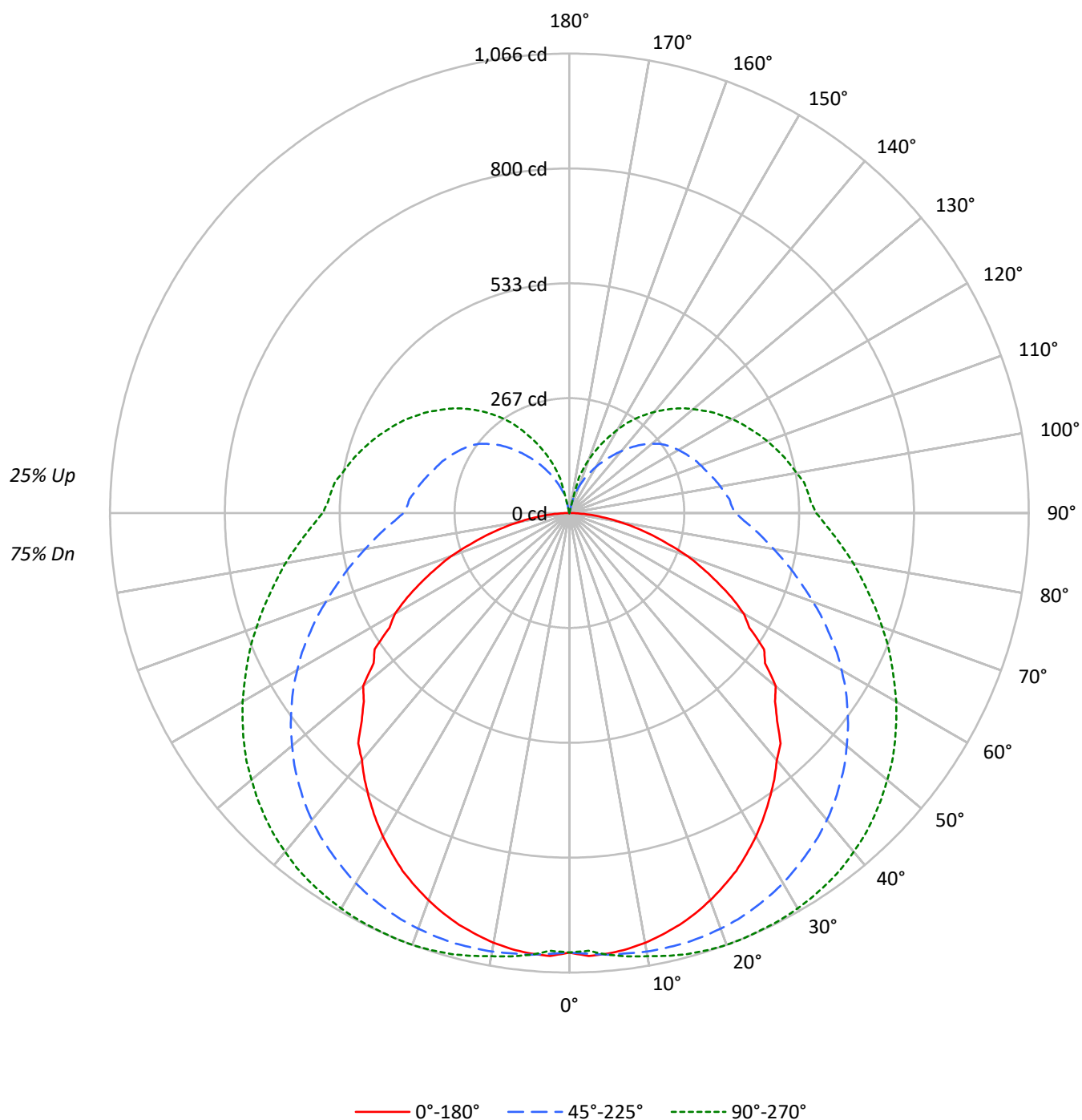
Input Watts (W): 61
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4118	4118	4118
5°	4156	4073	4039
10°	4142	4042	4017
15°	4119	4023	4026
20°	4086	4008	4033
25°	4054	3998	4040
30°	4004	3989	4062
35°	3949	3979	4089
40°	3898	3980	4115
45°	3834	3975	4148
50°	3856	3972	4181
55°	3800	3977	4231
60°	3678	3986	4288
65°	3494	3999	4368
70°	3296	4038	4491
75°	2931	4144	4673
80°	2537	4360	4974
85°	2006	4794	5414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	1.7
10°-20°	290.3	4.9
20°-30°	461.4	7.9
30°-40°	592.2	10.1
40°-50°	668.8	11.4
50°-60°	682.4	11.6
60°-70°	632.2	10.8
70°-80°	535.2	9.1
80°-90°	427.2	7.3
90°-100°	362.8	6.2
100°-110°	323.2	5.5
110°-120°	275.3	4.7
120°-130°	218.7	3.7
130°-140°	155.1	2.6
140°-150°	92.6	1.6
150°-160°	43.2	0.7
160°-170°	10.3	0.2
170°-180°	0.0	0.0
0°-30°	849.7	14.5
0°-40°	1442.0	24.6
0°-60°	2793.2	47.6
0°-90°	4387.8	74.8
90°-120°	961.3	16.4
90°-150°	1427.7	24.3
90°-180°	1481.0	25.2
0°-180°	5869.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1026	1018	1029	1029	1029	97
15°	989	997	1033	1052	1059	279
25°	916	946	1012	1048	1065	422
35°	809	869	963	1022	1047	507
45°	681	774	888	965	998	529
55°	552	644	788	884	923	484
65°	378	504	666	780	825	375
75°	199	352	539	672	719	211
85°	51	226	430	569	618	56
90°	3	185	385	524	572	4
95°	0	174	372	509	556	0
105°	0	160	339	467	513	0
115°	0	149	309	420	462	0
125°	0	128	274	371	407	0
135°	0	95	221	313	342	0
145°	0	62	154	234	268	1
155°	2	39	95	143	178	1
165°	2	21	43	59	84	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°	1019.3	1019.3	1019.3	1019.3	1019.3
2.5°	1028.6	1017.8	1023.4	1021.9	1016.4
5°	1026.0	1017.8	1028.6	1028.6	1028.6
7.5°	1020.5	1014.9	1030.1	1035.7	1037.2
10°	1012.3	1012.3	1033.1	1041.3	1043.9
12.5°	1001.1	1005.2	1033.1	1045.4	1052.1
15°	988.8	997.0	1033.1	1052.1	1059.2
17.5°	973.6	987.3	1030.1	1053.6	1063.2
20°	955.7	976.5	1026.0	1053.6	1066.2
22.5°	936.3	962.8	1020.5	1051.0	1066.2
25°	915.9	946.0	1012.3	1048.0	1064.7
27.5°	890.9	929.6	1002.6	1043.9	1063.2
30°	866.0	910.3	991.4	1038.3	1059.2
32.5°	838.5	889.5	977.7	1030.1	1053.6
35°	809.4	869.0	962.8	1021.9	1046.9
37.5°	780.4	844.0	947.5	1010.8	1038.3
40°	748.8	819.1	929.6	997.0	1026.0
42.5°	725.3	793.1	910.3	983.2	1013.8
45°	681.4	773.7	888.0	965.4	998.5
47.5°	646.8	736.5	866.0	947.5	981.7
50°	624.8	706.0	840.0	926.7	962.8
52.5°	572.4	685.5	815.0	906.2	944.5
55°	551.5	644.2	787.5	883.9	922.6
57.5°	495.0	615.2	759.9	859.3	899.1
60°	467.4	575.0	729.4	834.4	875.7
62.5°	424.6	540.7	699.3	806.8	849.6
65°	377.7	503.5	666.2	780.4	824.7
67.5°	333.8	466.3	634.5	752.9	799.8
70°	291.0	427.6	601.4	725.3	772.2
72.5°	241.2	388.9	569.4	699.3	746.2
75°	198.7	351.7	539.3	671.7	718.6
77.5°	157.0	316.0	510.2	646.8	693.7
80°	118.7	281.3	481.2	620.8	668.8
82.5°	82.6	252.3	455.1	595.8	642.7
85°	51.0	226.3	430.2	569.4	617.8
87.5°	23.4	202.8	405.3	544.8	594.3
90°	2.6	185.0	384.8	524.0	572.4
92.5°	1.5	179.4	376.6	514.3	561.2
95°	0.0	173.8	372.5	508.7	555.6
97.5°	0.0	168.2	362.9	500.5	548.9
100°	0.0	165.6	355.8	488.3	535.2
102.5°	0.0	161.5	347.6	477.1	524.0
105°	0.0	160.0	339.4	467.4	513.2
107.5°	0.0	157.0	330.8	455.1	500.5
110°	0.0	154.4	324.1	444.0	488.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	151.8	317.1	433.2	475.6
115°	0.0	148.9	308.9	420.5	461.8
117.5°	0.0	144.8	300.7	408.3	449.6
120°	0.0	139.2	292.5	397.1	435.8
122.5°	0.0	133.6	284.0	383.3	420.5
125°	0.0	128.4	274.3	371.0	406.8
127.5°	0.0	119.8	263.5	357.3	390.4
130°	0.0	111.6	249.7	343.5	375.1
132.5°	1.5	103.5	235.9	328.2	359.9
135°	0.0	95.3	220.7	313.0	342.0
137.5°	0.0	88.2	203.9	296.6	324.1
140°	0.0	80.0	187.6	277.3	306.3
142.5°	0.0	70.3	171.2	256.4	286.9
145°	0.0	62.2	154.4	234.5	267.6
147.5°	1.5	55.1	139.2	211.0	246.7
150°	1.5	49.5	124.3	187.6	223.3
152.5°	1.5	44.3	109.0	165.6	199.8
155°	1.5	38.7	95.3	143.3	177.9
157.5°	1.5	33.1	80.0	121.3	154.4
160°	1.5	29.0	66.2	102.0	132.5
162.5°	1.5	24.9	54.0	80.0	109.0
165°	1.5	20.8	42.8	59.2	84.1
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)