

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: P284667

Luminaire Tested: **4SNLED-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: P284667
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-L935-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: 5908.0 lumens
Efficiency: N/A
Efficacy: 69.5 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

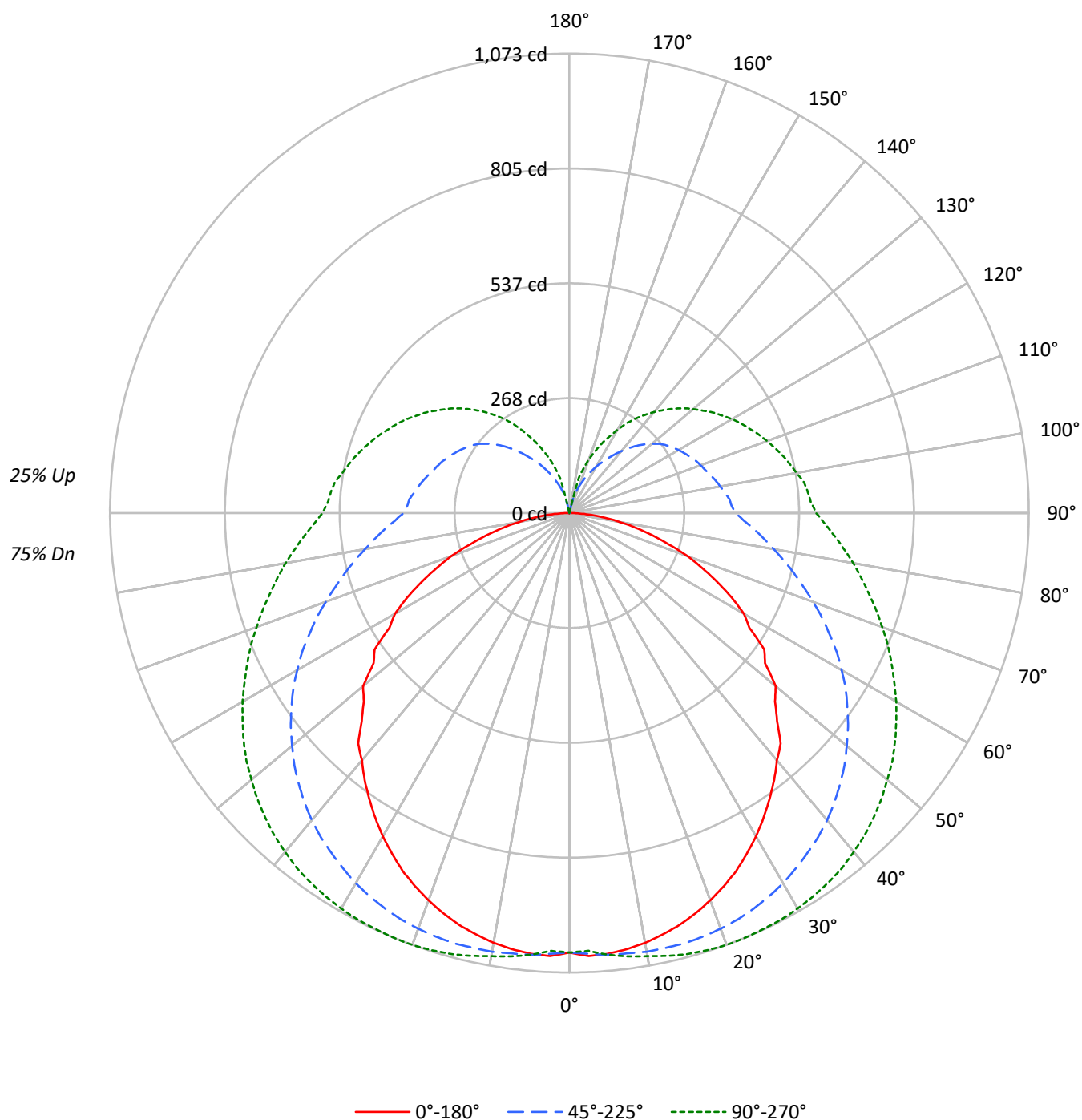
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	8292	8292	8292
5°	8356	8194	8133
10°	8316	8122	8087
15°	8258	8078	8105
20°	8180	8041	8121
25°	8103	8012	8133
30°	7991	7987	8177
35°	7866	7959	8232
40°	7749	7953	8286
45°	7601	7934	8352
50°	7624	7917	8419
55°	7488	7917	8518
60°	7214	7922	8634
65°	6813	7932	8795
70°	6375	7991	9042
75°	5595	8175	9407
80°	4724	8569	10013
85°	3505	9368	10899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	1.7
10°-20°	292.3	4.9
20°-30°	464.5	7.9
30°-40°	596.2	10.1
40°-50°	673.2	11.4
50°-60°	686.9	11.6
60°-70°	636.4	10.8
70°-80°	538.8	9.1
80°-90°	430.1	7.3
90°-100°	365.2	6.2
100°-110°	325.4	5.5
110°-120°	277.1	4.7
120°-130°	220.1	3.7
130°-140°	156.2	2.6
140°-150°	93.2	1.6
150°-160°	43.5	0.7
160°-170°	10.3	0.2
170°-180°	0.0	0.0
0°-30°	855.4	14.5
0°-40°	1451.6	24.6
0°-60°	2811.7	47.6
0°-90°	4417.0	74.8
90°-120°	967.7	16.4
90°-150°	1437.2	24.3
90°-180°	1491.0	25.2
0°-180°	5908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1033	1025	1036	1036	1036	98
15°	995	1004	1040	1059	1066	281
25°	922	952	1019	1055	1072	424
35°	815	875	969	1029	1054	510
45°	686	779	894	972	1005	533
55°	555	648	793	890	929	487
65°	380	507	671	786	830	377
75°	200	354	543	676	723	213
85°	51	228	433	573	622	56
90°	3	186	387	528	576	4
95°	0	175	375	512	559	0
105°	0	161	342	470	517	0
115°	0	150	311	423	465	0
125°	0	129	276	374	410	0
135°	0	96	222	315	344	0
145°	0	63	156	236	269	1
155°	2	39	96	144	179	1
165°	2	21	43	60	85	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°	1026.1	1026.1	1026.1	1026.1	1026.1
2.5°	1035.5	1024.6	1030.2	1028.7	1023.1
5°	1032.9	1024.6	1035.5	1035.5	1035.5
7.5°	1027.2	1021.6	1037.0	1042.6	1044.1
10°	1019.0	1019.0	1040.0	1048.2	1050.8
12.5°	1007.8	1011.9	1040.0	1052.3	1059.1
15°	995.4	1003.6	1040.0	1059.1	1066.2
17.5°	980.0	993.9	1037.0	1060.6	1070.3
20°	962.0	983.0	1032.9	1060.6	1073.3
22.5°	942.6	969.2	1027.2	1058.0	1073.3
25°	922.0	952.3	1019.0	1055.0	1071.8
27.5°	896.9	935.8	1009.2	1050.8	1070.3
30°	871.8	916.3	998.0	1045.2	1066.2
32.5°	844.0	895.4	984.1	1037.0	1060.6
35°	814.8	874.8	969.2	1028.7	1053.8
37.5°	785.6	849.7	953.8	1017.5	1045.2
40°	753.8	824.6	935.8	1003.6	1032.9
42.5°	730.2	798.3	916.3	989.8	1020.5
45°	685.9	778.9	893.9	971.8	1005.1
47.5°	651.1	741.4	871.8	953.8	988.3
50°	629.0	710.7	845.5	932.8	969.2
52.5°	576.2	690.1	820.4	912.2	950.8
55°	555.2	648.5	792.7	889.7	928.7
57.5°	498.3	619.3	765.0	865.0	905.1
60°	470.5	578.8	734.3	839.9	881.5
62.5°	427.5	544.3	703.9	812.2	855.3
65°	380.2	506.9	670.6	785.6	830.2
67.5°	336.0	469.4	638.7	757.9	805.1
70°	293.0	430.4	605.4	730.2	777.4
72.5°	242.8	391.5	573.2	703.9	751.1
75°	200.1	354.0	542.8	676.2	723.4
77.5°	158.1	318.1	513.6	651.1	698.3
80°	119.5	283.2	484.4	624.9	673.2
82.5°	83.2	254.0	458.2	599.8	647.0
85°	51.3	227.8	433.1	573.2	621.9
87.5°	23.6	204.2	408.0	548.5	598.3
90°	2.6	186.2	387.4	527.5	576.2
92.5°	1.5	180.6	379.1	517.7	564.9
95°	0.0	175.0	375.0	512.1	559.3
97.5°	0.0	169.3	365.3	503.9	552.6
100°	0.0	166.7	358.1	491.5	538.7
102.5°	0.0	162.6	349.9	480.3	527.5
105°	0.0	161.1	341.7	470.5	516.6
107.5°	0.0	158.1	333.0	458.2	503.9
110°	0.0	155.5	326.3	446.9	491.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	152.8	319.2	436.1	478.8
115°	0.0	149.9	310.9	423.3	464.9
117.5°	0.0	145.7	302.7	411.0	452.6
120°	0.0	140.1	294.5	399.7	438.7
122.5°	0.0	134.5	285.8	385.9	423.3
125°	0.0	129.2	276.1	373.5	409.5
127.5°	0.0	120.6	265.2	359.6	393.0
130°	0.0	112.4	251.4	345.8	377.6
132.5°	1.5	104.1	237.5	330.4	362.3
135°	0.0	95.9	222.2	315.1	344.3
137.5°	0.0	88.8	205.3	298.6	326.3
140°	0.0	80.5	188.8	279.1	308.3
142.5°	0.0	70.8	172.3	258.1	288.8
145°	0.0	62.6	155.5	236.0	269.4
147.5°	1.5	55.4	140.1	212.4	248.4
150°	1.5	49.8	125.1	188.8	224.8
152.5°	1.5	44.6	109.8	166.7	201.2
155°	1.5	39.0	95.9	144.2	179.1
157.5°	1.5	33.3	80.5	122.1	155.5
160°	1.5	29.2	66.7	102.6	133.4
162.5°	1.5	25.1	54.3	80.5	109.8
165°	1.5	21.0	43.1	59.6	84.7
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)