

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: P284628

Luminaire Tested: **4SNLED-LD5-70SL-SLW-UNV-L930-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: P284628
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-L930-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: 5566.0 lumens
Efficiency: N/A
Efficacy: 65.5 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

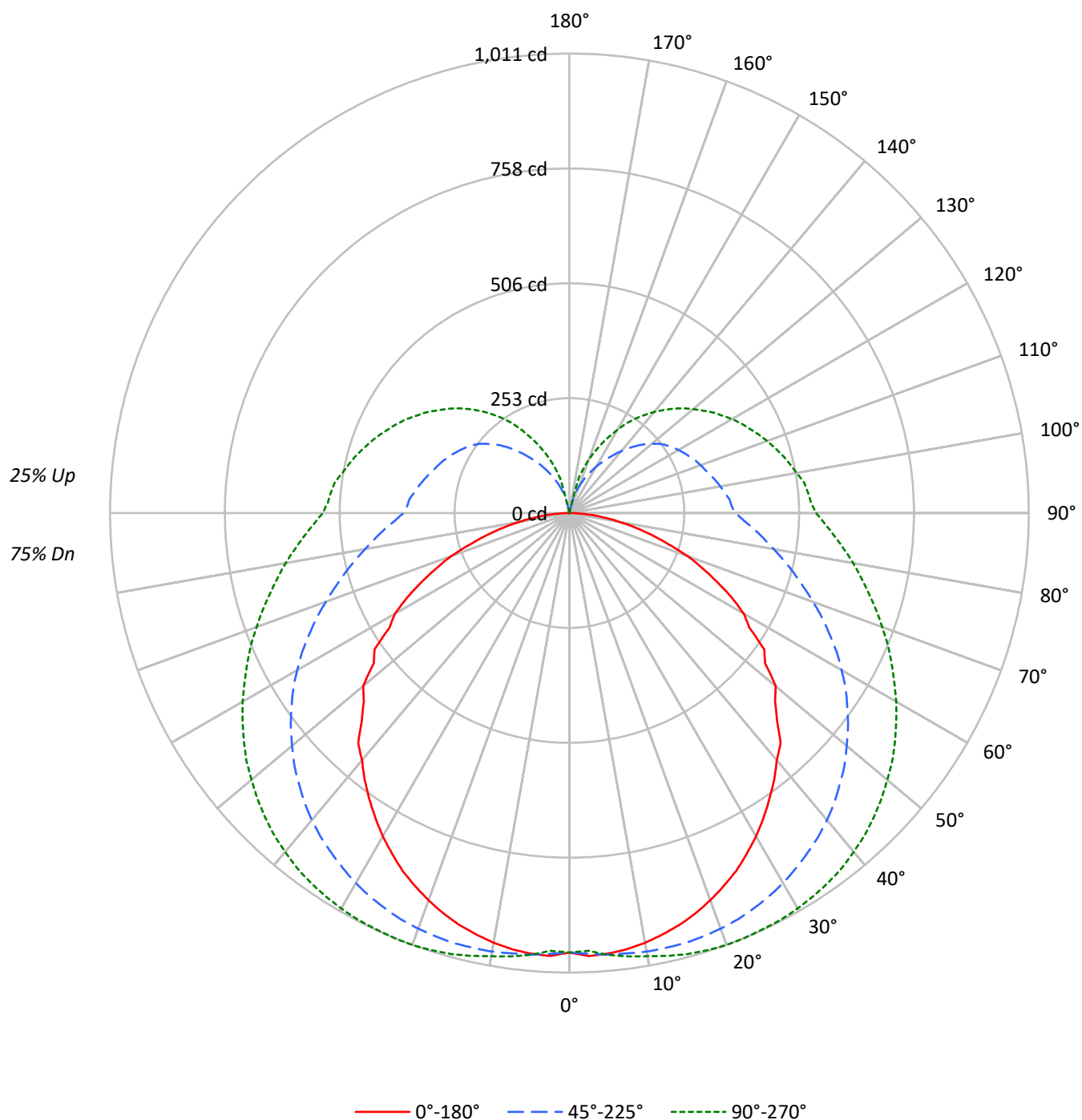
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7812	7812	7812
5°	7872	7719	7662
10°	7834	7652	7619
15°	7781	7611	7636
20°	7707	7576	7651
25°	7634	7548	7663
30°	7528	7524	7704
35°	7410	7498	7756
40°	7299	7493	7806
45°	7161	7475	7868
50°	7183	7459	7931
55°	7055	7459	8024
60°	6797	7464	8134
65°	6419	7473	8285
70°	6006	7529	8519
75°	5271	7702	8863
80°	4451	8074	9433
85°	3307	8825	10268



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	1.7
10°-20°	275.3	4.9
20°-30°	437.6	7.9
30°-40°	561.7	10.1
40°-50°	634.2	11.4
50°-60°	647.2	11.6
60°-70°	599.6	10.8
70°-80°	507.6	9.1
80°-90°	405.2	7.3
90°-100°	344.1	6.2
100°-110°	306.5	5.5
110°-120°	261.1	4.7
120°-130°	207.4	3.7
130°-140°	147.1	2.6
140°-150°	87.8	1.6
150°-160°	41.0	0.7
160°-170°	9.7	0.2
170°-180°	0.0	0.0
0°-30°	805.9	14.5
0°-40°	1367.5	24.6
0°-60°	2648.9	47.6
0°-90°	4161.3	74.8
90°-120°	911.7	16.4
90°-150°	1354.0	24.3
90°-180°	1405.0	25.2
0°-180°	5566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	973	965	976	976	976	92
15°	938	946	980	998	1004	265
25°	869	897	960	994	1010	400
35°	768	824	913	969	993	481
45°	646	734	842	916	947	502
55°	523	611	747	838	875	459
65°	358	478	632	740	782	356
75°	188	334	511	637	682	200
85°	48	215	408	540	586	53
90°	2	175	365	497	543	4
95°	0	165	353	482	527	0
105°	0	152	322	443	487	0
115°	0	141	293	399	438	0
125°	0	122	260	352	386	0
135°	0	90	209	297	324	0
145°	0	59	146	222	254	1
155°	1	37	90	136	169	1
165°	1	20	41	56	80	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°	966.7	966.7	966.7	966.7	966.7
2.5°	975.5	965.3	970.6	969.2	963.9
5°	973.1	965.3	975.5	975.5	975.5
7.5°	967.8	962.5	976.9	982.2	983.7
10°	960.0	960.0	979.8	987.5	990.0
12.5°	949.4	953.3	979.8	991.4	997.8
15°	937.8	945.5	979.8	997.8	1004.5
17.5°	923.3	936.4	976.9	999.2	1008.4
20°	906.4	926.1	973.1	999.2	1011.2
22.5°	888.0	913.1	967.8	996.7	1011.2
25°	868.6	897.2	960.0	993.9	1009.8
27.5°	844.9	881.7	950.8	990.0	1008.4
30°	821.3	863.3	940.2	984.7	1004.5
32.5°	795.2	843.5	927.2	976.9	999.2
35°	767.6	824.1	913.1	969.2	992.8
37.5°	740.1	800.5	898.6	958.6	984.7
40°	710.1	776.8	881.7	945.5	973.1
42.5°	687.9	752.1	863.3	932.5	961.4
45°	646.2	733.8	842.1	915.5	946.9
47.5°	613.4	698.5	821.3	898.6	931.1
50°	592.6	669.5	796.6	878.8	913.1
52.5°	542.8	650.1	772.9	859.4	895.8
55°	523.1	610.9	746.8	838.2	874.9
57.5°	469.4	583.4	720.7	814.9	852.7
60°	443.3	545.3	691.8	791.3	830.5
62.5°	402.7	512.8	663.2	765.2	805.8
65°	358.2	477.5	631.8	740.1	782.1
67.5°	316.6	442.2	601.8	714.0	758.5
70°	276.0	405.5	570.4	687.9	732.4
72.5°	228.7	368.8	540.0	663.2	707.6
75°	188.5	333.5	511.4	637.1	681.5
77.5°	148.9	299.6	483.9	613.4	657.9
80°	112.6	266.8	456.4	588.7	634.2
82.5°	78.4	239.3	431.6	565.1	609.5
85°	48.4	214.6	408.0	540.0	585.9
87.5°	22.2	192.4	384.4	516.7	563.6
90°	2.5	175.4	364.9	496.9	542.8
92.5°	1.4	170.1	357.2	487.8	532.2
95°	0.0	164.8	353.3	482.5	526.9
97.5°	0.0	159.5	344.1	474.7	520.6
100°	0.0	157.1	337.4	463.1	507.5
102.5°	0.0	153.2	329.6	452.5	496.9
105°	0.0	151.8	321.9	443.3	486.7
107.5°	0.0	148.9	313.8	431.6	474.7
110°	0.0	146.5	307.4	421.1	463.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	144.0	300.7	410.8	451.1
115°	0.0	141.2	292.9	398.8	438.0
117.5°	0.0	137.3	285.2	387.2	426.4
120°	0.0	132.0	277.4	376.6	413.3
122.5°	0.0	126.7	269.3	363.5	398.8
125°	0.0	121.8	260.1	351.9	385.8
127.5°	0.0	113.6	249.9	338.8	370.2
130°	0.0	105.9	236.8	325.8	355.8
132.5°	1.4	98.1	223.8	311.3	341.3
135°	0.0	90.4	209.3	296.8	324.4
137.5°	0.0	83.6	193.4	281.3	307.4
140°	0.0	75.9	177.9	262.9	290.5
142.5°	0.0	66.7	162.4	243.2	272.1
145°	0.0	58.9	146.5	222.4	253.8
147.5°	1.4	52.2	132.0	200.1	234.0
150°	1.4	46.9	117.9	177.9	211.8
152.5°	1.4	42.0	103.4	157.1	189.5
155°	1.4	36.7	90.4	135.9	168.7
157.5°	1.4	31.4	75.9	115.1	146.5
160°	1.4	27.5	62.8	96.7	125.6
162.5°	1.4	23.6	51.2	75.9	103.4
165°	1.4	19.8	40.6	56.1	79.8
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)