

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: P284596

Luminaire Tested: **8SNLED-LD5-50SL-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: P284596
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-LD5-50SL-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: 5122.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

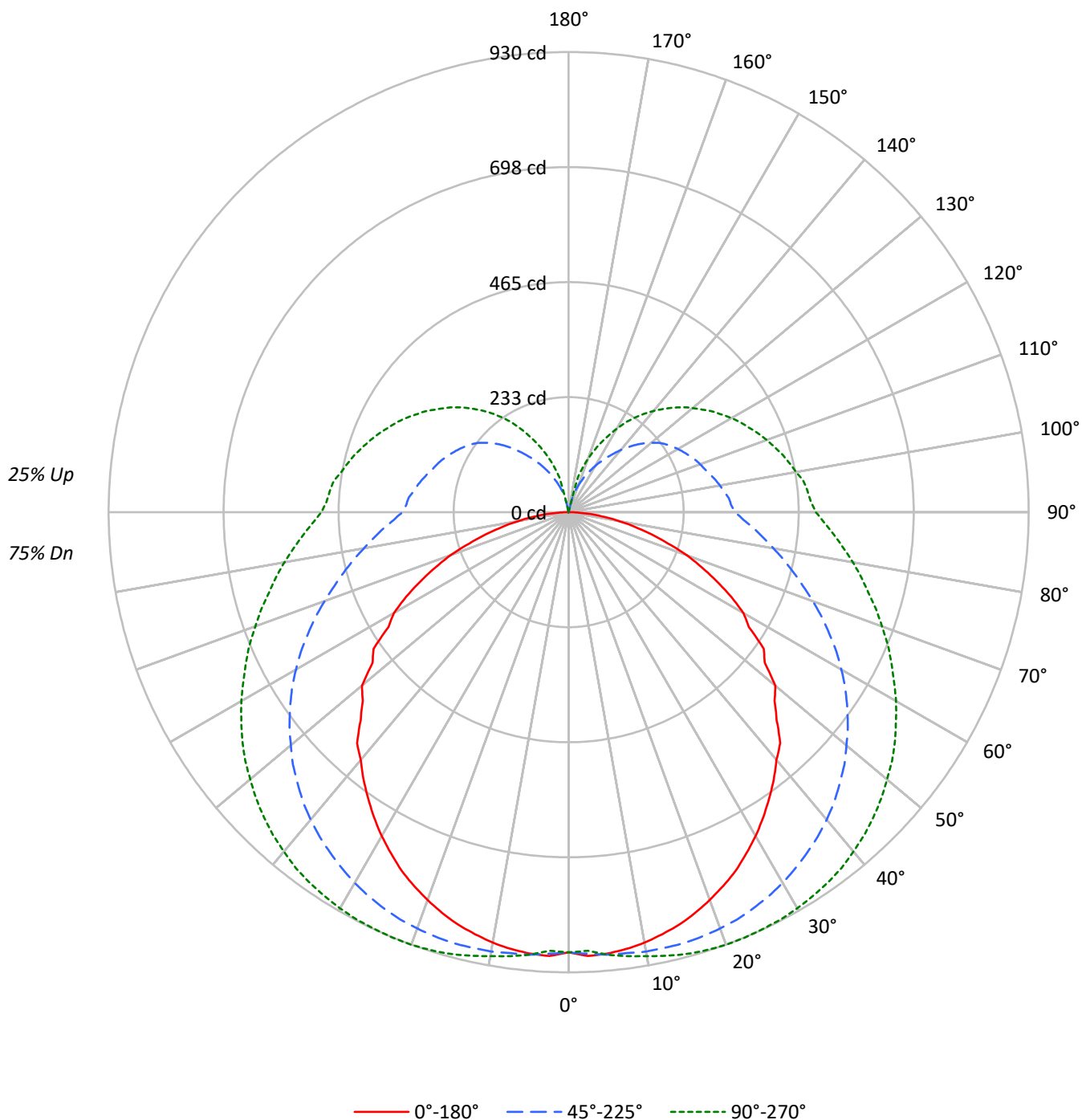
Input Watts (W): 42
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	113	113	113	113	107	107	107	107	97	97	97		88	88	88		79
1	100	94	89	84	95	89	84	80	80	76	73		72	69	66		64
2	90	80	72	66	85	76	69	63	68	63	58		61	57	53		55
3	81	69	60	53	76	66	58	51	59	53	47		53	48	43		47
4	74	61	51	44	69	58	49	43	52	45	39		47	41	36		42
5	67	54	44	37	63	51	43	36	46	39	33		42	35	31		37
6	62	48	39	32	58	46	37	31	41	34	29		37	31	27		34
7	57	43	34	28	54	41	33	27	37	30	25		34	28	23		30
8	53	39	31	25	50	37	29	24	34	27	22		31	25	21		28
9	49	36	27	22	47	34	26	21	31	24	20		28	23	18		26
10	46	33	25	20	44	31	24	19	29	22	18		26	21	16		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3594	3594	3594
5°	3627	3555	3525
10°	3614	3527	3506
15°	3595	3511	3513
20°	3566	3498	3520
25°	3538	3489	3525
30°	3495	3481	3544
35°	3447	3472	3568
40°	3402	3473	3592
45°	3346	3469	3620
50°	3365	3466	3649
55°	3316	3471	3692
60°	3209	3479	3742
65°	3050	3490	3812
70°	2877	3524	3919
75°	2558	3616	4078
80°	2214	3806	4340
85°	1750	4184	4724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.7
10°-20°	253.4	4.9
20°-30°	402.7	7.9
30°-40°	516.8	10.1
40°-50°	583.6	11.4
50°-60°	595.6	11.6
60°-70°	551.7	10.8
70°-80°	467.1	9.1
80°-90°	372.9	7.3
90°-100°	316.6	6.2
100°-110°	282.1	5.5
110°-120°	240.3	4.7
120°-130°	190.8	3.7
130°-140°	135.4	2.6
140°-150°	80.8	1.6
150°-160°	37.7	0.7
160°-170°	9.0	0.2
170°-180°	0.0	0.0
0°-30°	741.6	14.5
0°-40°	1258.4	24.6
0°-60°	2437.6	47.6
0°-90°	3829.3	74.8
90°-120°	839.0	16.4
90°-150°	1246.0	24.3
90°-180°	1293.0	25.2
0°-180°	5122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	895	888	898	898	898	85
15°	863	870	902	918	924	243
25°	799	826	883	915	929	368
35°	706	758	840	892	914	442
45°	595	675	775	842	871	462
55°	481	562	687	771	805	423
65°	330	439	581	681	720	327
75°	173	307	471	586	627	185
85°	44	198	376	497	539	49
90°	2	161	336	457	500	4
95°	0	152	325	444	485	0
105°	0	140	296	408	448	0
115°	0	130	270	367	403	0
125°	0	112	239	324	355	0
135°	0	83	193	273	298	0
145°	0	54	135	205	234	1
155°	1	34	83	125	155	1
165°	1	18	37	52	73	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°	889.6	889.6	889.6	889.6	889.6
2.5°	897.7	888.3	893.2	891.9	887.0
5°	895.4	888.3	897.7	897.7	897.7
7.5°	890.6	885.7	899.0	903.9	905.2
10°	883.4	883.4	901.6	908.8	911.0
12.5°	873.7	877.3	901.6	912.3	918.2
15°	863.0	870.1	901.6	918.2	924.3
17.5°	849.6	861.7	899.0	919.5	927.9
20°	834.1	852.2	895.4	919.5	930.5
22.5°	817.2	840.2	890.6	917.2	930.5
25°	799.3	825.6	883.4	914.6	929.2
27.5°	777.5	811.3	875.0	911.0	927.9
30°	755.8	794.4	865.2	906.2	924.3
32.5°	731.7	776.2	853.2	899.0	919.5
35°	706.4	758.4	840.2	891.9	913.6
37.5°	681.1	736.6	826.9	882.1	906.2
40°	653.5	714.9	811.3	870.1	895.4
42.5°	633.0	692.1	794.4	858.1	884.7
45°	594.7	675.2	774.9	842.5	871.4
47.5°	564.5	642.8	755.8	826.9	856.8
50°	545.3	616.1	733.0	808.7	840.2
52.5°	499.5	598.3	711.3	790.9	824.3
55°	481.3	562.2	687.3	771.4	805.1
57.5°	432.0	536.9	663.2	749.9	784.7
60°	407.9	501.8	636.6	728.2	764.2
62.5°	370.6	471.9	610.3	704.1	741.5
65°	329.7	439.4	581.4	681.1	719.7
67.5°	291.3	407.0	553.8	657.0	698.0
70°	254.0	373.2	524.9	633.0	673.9
72.5°	210.5	339.4	496.9	610.3	651.2
75°	173.4	306.9	470.6	586.2	627.2
77.5°	137.1	275.7	445.3	564.5	605.4
80°	103.6	245.5	420.0	541.7	583.6
82.5°	72.1	220.2	397.2	520.0	560.9
85°	44.5	197.5	375.5	496.9	539.1
87.5°	20.5	177.0	353.7	475.5	518.7
90°	2.3	161.4	335.8	457.3	499.5
92.5°	1.3	156.5	328.7	448.9	489.8
95°	0.0	151.7	325.1	444.0	484.9
97.5°	0.0	146.8	316.7	436.8	479.1
100°	0.0	144.5	310.5	426.1	467.0
102.5°	0.0	141.0	303.4	416.4	457.3
105°	0.0	139.7	296.2	407.9	447.9
107.5°	0.0	137.1	288.7	397.2	436.8
110°	0.0	134.8	282.9	387.5	426.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	132.5	276.7	378.1	415.1
115°	0.0	129.9	269.6	367.0	403.1
117.5°	0.0	126.3	262.4	356.3	392.3
120°	0.0	121.5	255.3	346.5	380.3
122.5°	0.0	116.6	247.8	334.5	367.0
125°	0.0	112.1	239.4	323.8	355.0
127.5°	0.0	104.6	230.0	311.8	340.7
130°	0.0	97.4	217.9	299.8	327.4
132.5°	1.3	90.3	205.9	286.5	314.1
135°	0.0	83.1	192.6	273.1	298.5
137.5°	0.0	77.0	178.0	258.9	282.9
140°	0.0	69.8	163.7	242.0	267.3
142.5°	0.0	61.4	149.4	223.8	250.4
145°	0.0	54.2	134.8	204.6	233.5
147.5°	1.3	48.1	121.5	184.2	215.3
150°	1.3	43.2	108.5	163.7	194.9
152.5°	1.3	38.6	95.2	144.5	174.4
155°	1.3	33.8	83.1	125.0	155.2
157.5°	1.3	28.9	69.8	105.9	134.8
160°	1.3	25.3	57.8	89.0	115.6
162.5°	1.3	21.8	47.1	69.8	95.2
165°	1.3	18.2	37.4	51.6	73.4
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)