

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: P284508

Luminaire Tested: **4SNLED-LD5-52SL-SLW-UNV-L835-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: P284508
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-LD5-52SL-SLW-UNV-L835-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: 5203.0 lumens
Efficiency: N/A
Efficacy: 100.1 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

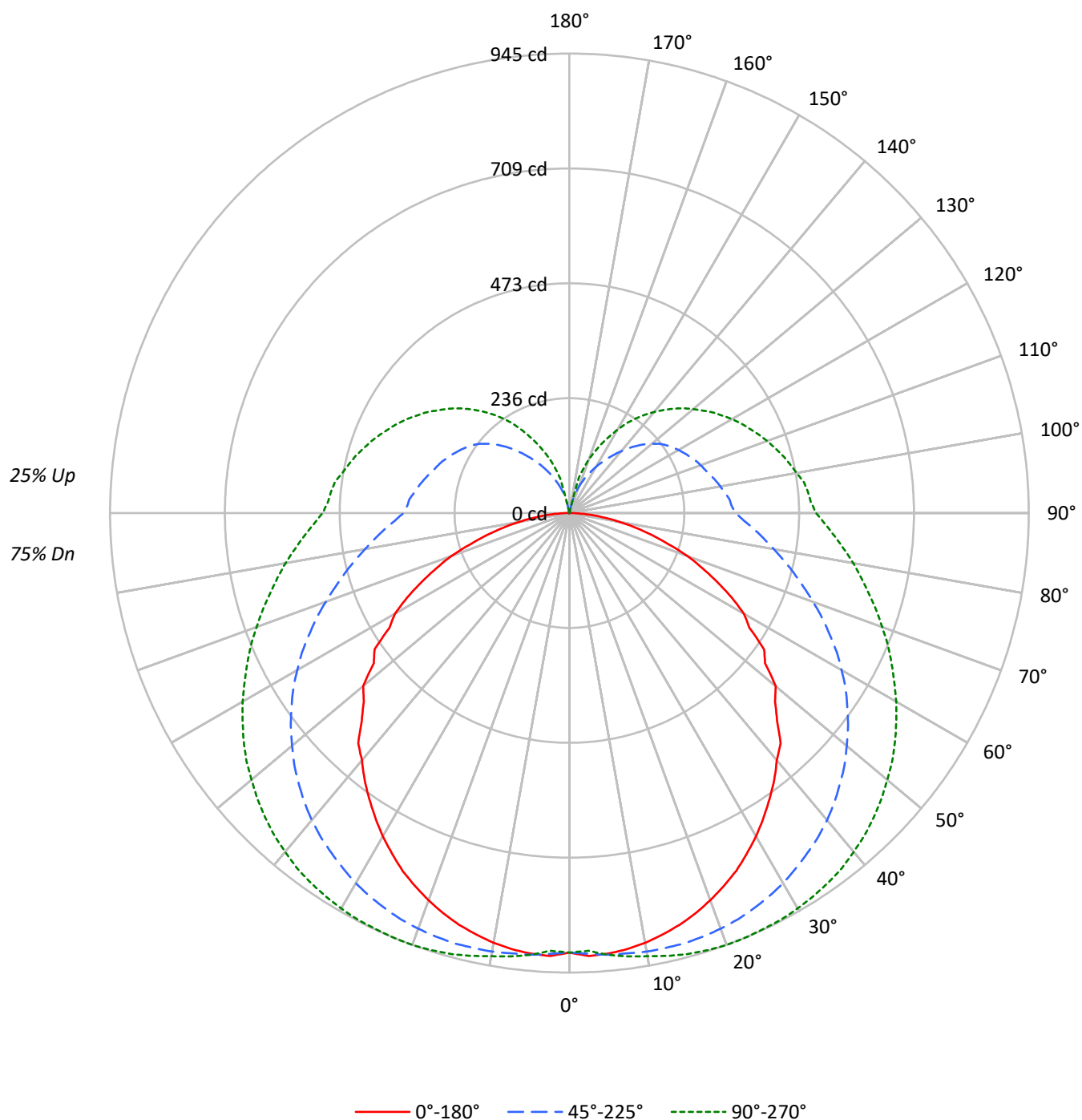
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	7303	7303	7303
5°	7358	7216	7162
10°	7323	7153	7122
15°	7273	7114	7138
20°	7204	7081	7151
25°	7135	7056	7162
30°	7037	7034	7201
35°	6928	7009	7250
40°	6824	7005	7297
45°	6695	6987	7355
50°	6714	6972	7414
55°	6594	6972	7502
60°	6354	6977	7603
65°	6002	6986	7745
70°	5614	7038	7963
75°	4927	7201	8285
80°	4159	7547	8818
85°	3088	8250	9599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.7
10°-20°	257.4	4.9
20°-30°	409.1	7.9
30°-40°	525.0	10.1
40°-50°	592.9	11.4
50°-60°	605.0	11.6
60°-70°	560.5	10.8
70°-80°	474.5	9.1
80°-90°	378.8	7.3
90°-100°	321.6	6.2
100°-110°	286.6	5.5
110°-120°	244.0	4.7
120°-130°	193.8	3.7
130°-140°	137.5	2.6
140°-150°	82.1	1.6
150°-160°	38.3	0.7
160°-170°	9.1	0.2
170°-180°	0.0	0.0
0°-30°	753.3	14.5
0°-40°	1278.3	24.6
0°-60°	2476.2	47.6
0°-90°	3889.9	74.8
90°-120°	852.2	16.4
90°-150°	1265.7	24.3
90°-180°	1313.0	25.2
0°-180°	5203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	910	902	912	912	912	86
15°	877	884	916	933	939	247
25°	812	839	897	929	944	374
35°	718	770	854	906	928	449
45°	604	686	787	856	885	469
55°	489	571	698	784	818	429
65°	335	446	591	692	731	332
75°	176	312	478	596	637	187
85°	45	201	381	505	548	49
90°	2	164	341	464	507	4
95°	0	154	330	451	493	0
105°	0	142	301	414	455	0
115°	0	132	274	373	409	0
125°	0	114	243	329	361	0
135°	0	84	196	278	303	0
145°	0	55	137	208	237	1
155°	1	34	84	127	158	1
165°	1	18	38	52	75	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°	903.7	903.7	903.7	903.7	903.7
2.5°	911.9	902.3	907.3	906.0	901.0
5°	909.6	902.3	911.9	911.9	911.9
7.5°	904.7	899.7	913.2	918.2	919.5
10°	897.4	897.4	915.9	923.1	925.4
12.5°	887.5	891.1	915.9	926.8	932.7
15°	876.6	883.9	915.9	932.7	939.0
17.5°	863.1	875.3	913.2	934.0	942.6
20°	847.2	865.7	909.6	934.0	945.2
22.5°	830.1	853.5	904.7	931.7	945.2
25°	811.9	838.7	897.4	929.1	943.9
27.5°	789.8	824.2	888.8	925.4	942.6
30°	767.7	807.0	878.9	920.5	939.0
32.5°	743.3	788.5	866.7	913.2	934.0
35°	717.6	770.4	853.5	906.0	928.1
37.5°	691.9	748.3	840.0	896.1	920.5
40°	663.8	726.2	824.2	883.9	909.6
42.5°	643.0	703.1	807.0	871.7	898.7
45°	604.1	685.9	787.2	855.8	885.2
47.5°	573.4	652.9	767.7	840.0	870.3
50°	553.9	625.9	744.6	821.5	853.5
52.5°	507.4	607.7	722.5	803.4	837.3
55°	488.9	571.1	698.1	783.6	817.9
57.5°	438.8	545.4	673.7	761.8	797.1
60°	414.4	509.7	646.7	739.7	776.3
62.5°	376.4	479.4	619.9	715.3	753.2
65°	334.9	446.4	590.6	691.9	731.1
67.5°	295.9	413.4	562.5	667.4	709.0
70°	258.0	379.1	533.2	643.0	684.6
72.5°	213.8	344.8	504.8	619.9	661.5
75°	176.2	311.8	478.1	595.5	637.1
77.5°	139.2	280.1	452.3	573.4	615.0
80°	105.2	249.4	426.6	550.3	592.9
82.5°	73.2	223.7	403.5	528.2	569.8
85°	45.2	200.6	381.4	504.8	547.7
87.5°	20.8	179.8	359.3	483.0	526.9
90°	2.3	164.0	341.1	464.5	507.4
92.5°	1.3	159.0	333.9	456.0	497.5
95°	0.0	154.1	330.3	451.0	492.6
97.5°	0.0	149.1	321.7	443.7	486.6
100°	0.0	146.8	315.4	432.9	474.4
102.5°	0.0	143.2	308.1	423.0	464.5
105°	0.0	141.9	300.9	414.4	455.0
107.5°	0.0	139.2	293.3	403.5	443.7
110°	0.0	136.9	287.4	393.6	432.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	134.6	281.1	384.0	421.6
115°	0.0	132.0	273.8	372.8	409.4
117.5°	0.0	128.3	266.6	361.9	398.5
120°	0.0	123.4	259.3	352.0	386.3
122.5°	0.0	118.4	251.7	339.8	372.8
125°	0.0	113.8	243.2	328.9	360.6
127.5°	0.0	106.2	233.6	316.7	346.1
130°	0.0	99.0	221.4	304.5	332.6
132.5°	1.3	91.7	209.2	291.0	319.0
135°	0.0	84.5	195.6	277.5	303.2
137.5°	0.0	78.2	180.8	262.9	287.4
140°	0.0	70.9	166.3	245.8	271.5
142.5°	0.0	62.4	151.8	227.3	254.4
145°	0.0	55.1	136.9	207.9	237.2
147.5°	1.3	48.8	123.4	187.1	218.7
150°	1.3	43.9	110.2	166.3	198.0
152.5°	1.3	39.3	96.7	146.8	177.2
155°	1.3	34.3	84.5	127.0	157.7
157.5°	1.3	29.4	70.9	107.6	136.9
160°	1.3	25.7	58.7	90.4	117.5
162.5°	1.3	22.1	47.8	70.9	96.7
165°	1.3	18.5	37.9	52.5	74.6
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)