

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: P284514

Luminaire Tested: **4SNLED-LD5-52HL-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: P284514
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-LD5-52HL-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: 5201.0 lumens
Efficiency: N/A
Efficacy: 121.0 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

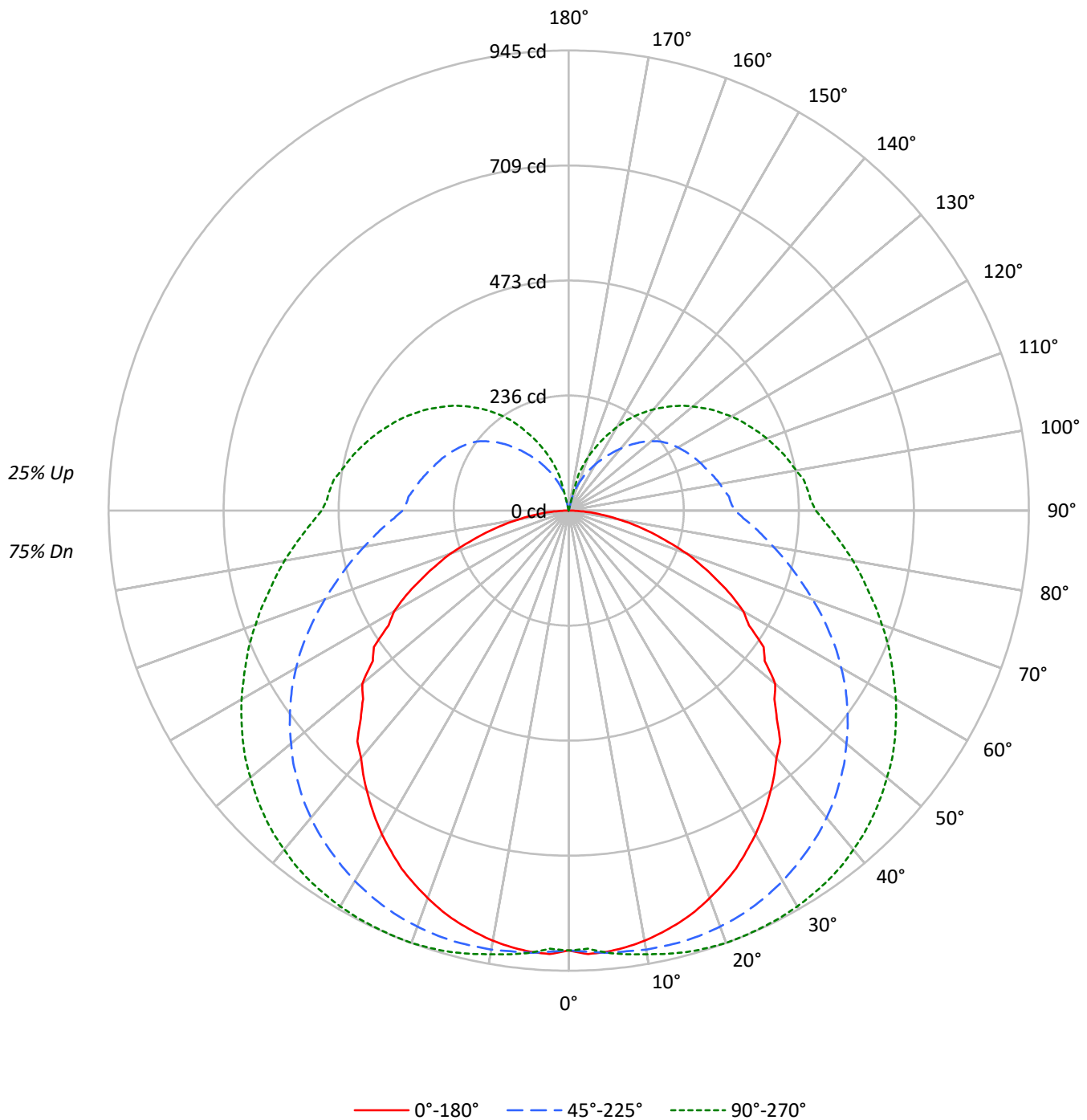
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7300	7300	7300
5°	7356	7213	7160
10°	7320	7150	7120
15°	7270	7111	7135
20°	7201	7079	7149
25°	7133	7052	7160
30°	7034	7031	7198
35°	6925	7006	7247
40°	6821	7001	7295
45°	6692	6985	7352
50°	6711	6970	7411
55°	6592	6970	7499
60°	6351	6974	7600
65°	5998	6982	7742
70°	5612	7035	7959
75°	4924	7198	8281
80°	4159	7543	8814
85°	3088	8246	9595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.7
10°-20°	257.3	4.9
20°-30°	408.9	7.9
30°-40°	524.8	10.1
40°-50°	592.7	11.4
50°-60°	604.7	11.6
60°-70°	560.2	10.8
70°-80°	474.3	9.1
80°-90°	378.6	7.3
90°-100°	321.5	6.2
100°-110°	286.4	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°	753.0	14.5
0°-40°	1277.8	24.6
0°-60°	2475.2	47.6
0°-90°	3888.4	74.8
90°-120°	851.9	16.4
90°-150°	1265.2	24.3
90°-180°	1313.0	25.2
0°-180°	5201.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	909	902	912	912	912	86
15°	876	884	916	932	939	247
25°	812	838	897	929	944	374
35°	717	770	853	906	928	449
45°	604	686	787	856	885	469
55°	489	571	698	783	818	429
65°	335	446	590	692	731	332
75°	176	312	478	595	637	187
85°	45	200	381	505	548	49
90°	2	164	341	464	507	4
95°	0	154	330	451	492	0
105°	0	142	301	414	455	0
115°	0	132	274	373	409	0
125°	0	114	243	329	360	0
135°	0	84	196	277	303	0
145°	0	55	137	208	237	1
155°	1	34	84	127	158	1
165°	1	18	38	52	74	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°	903.3	903.3	903.3	903.3	903.3
2.5°	911.6	902.0	906.9	905.6	900.7
5°	909.3	902.0	911.6	911.6	911.6
7.5°	904.3	899.4	912.9	917.8	919.1
10°	897.0	897.0	915.5	922.8	925.1
12.5°	887.2	890.8	915.5	926.4	932.3
15°	876.3	883.5	915.5	932.3	938.6
17.5°	862.8	875.0	912.9	933.7	942.2
20°	846.9	865.4	909.3	933.7	944.9
22.5°	829.8	853.2	904.3	931.3	944.9
25°	811.6	838.3	897.0	928.7	943.6
27.5°	789.5	823.8	888.5	925.1	942.2
30°	767.4	806.7	878.6	920.1	938.6
32.5°	743.0	788.2	866.4	912.9	933.7
35°	717.3	770.1	853.2	905.6	927.7
37.5°	691.6	748.0	839.7	895.7	920.1
40°	663.6	725.9	823.8	883.5	909.3
42.5°	642.8	702.8	806.7	871.3	898.4
45°	603.9	685.6	786.9	855.5	884.8
47.5°	573.2	652.7	767.4	839.7	870.0
50°	553.7	625.6	744.4	821.2	853.2
52.5°	507.2	607.5	722.3	803.1	837.0
55°	488.8	570.9	697.9	783.3	817.6
57.5°	438.6	545.2	673.4	761.5	796.8
60°	414.2	509.5	646.4	739.4	776.0
62.5°	376.3	479.2	619.7	715.0	752.9
65°	334.7	446.2	590.3	691.6	730.8
67.5°	295.8	413.2	562.3	667.2	708.7
70°	257.9	378.9	533.0	642.8	684.3
72.5°	213.7	344.6	504.6	619.7	661.2
75°	176.1	311.7	477.9	595.3	636.8
77.5°	139.2	280.0	452.2	573.2	614.7
80°	105.2	249.3	426.4	550.1	592.6
82.5°	73.2	223.6	403.3	528.0	569.6
85°	45.2	200.5	381.2	504.6	547.5
87.5°	20.8	179.7	359.1	482.8	526.7
90°	2.3	163.9	341.0	464.4	507.2
92.5°	1.3	159.0	333.8	455.8	497.3
95°	0.0	154.0	330.1	450.8	492.4
97.5°	0.0	149.1	321.6	443.6	486.5
100°	0.0	146.8	315.3	432.7	474.2
102.5°	0.0	143.1	308.0	422.8	464.4
105°	0.0	141.8	300.8	414.2	454.8
107.5°	0.0	139.2	293.2	403.3	443.6
110°	0.0	136.9	287.3	393.4	432.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	134.6	281.0	383.9	421.5
115°	0.0	131.9	273.7	372.7	409.3
117.5°	0.0	128.3	266.5	361.8	398.4
120°	0.0	123.3	259.2	351.9	386.2
122.5°	0.0	118.4	251.6	339.7	372.7
125°	0.0	113.8	243.1	328.8	360.5
127.5°	0.0	106.2	233.5	316.6	346.0
130°	0.0	98.9	221.3	304.4	332.4
132.5°	1.3	91.7	209.1	290.9	318.9
135°	0.0	84.4	195.6	277.4	303.1
137.5°	0.0	78.2	180.7	262.8	287.3
140°	0.0	70.9	166.2	245.7	271.4
142.5°	0.0	62.3	151.7	227.2	254.3
145°	0.0	55.1	136.9	207.8	237.1
147.5°	1.3	48.8	123.3	187.0	218.7
150°	1.3	43.9	110.2	166.2	197.9
152.5°	1.3	39.2	96.6	146.8	177.1
155°	1.3	34.3	84.4	127.0	157.6
157.5°	1.3	29.4	70.9	107.5	136.9
160°	1.3	25.7	58.7	90.4	117.4
162.5°	1.3	22.1	47.8	70.9	96.6
165°	1.3	18.5	37.9	52.4	74.5
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)