

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: P284547

Luminaire Tested: **4SNLED-LD5-52SL-SLW-UNV-L840-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: P284547
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-L840-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: 5291.0 lumens
Efficiency: N/A
Efficacy: 101.8 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

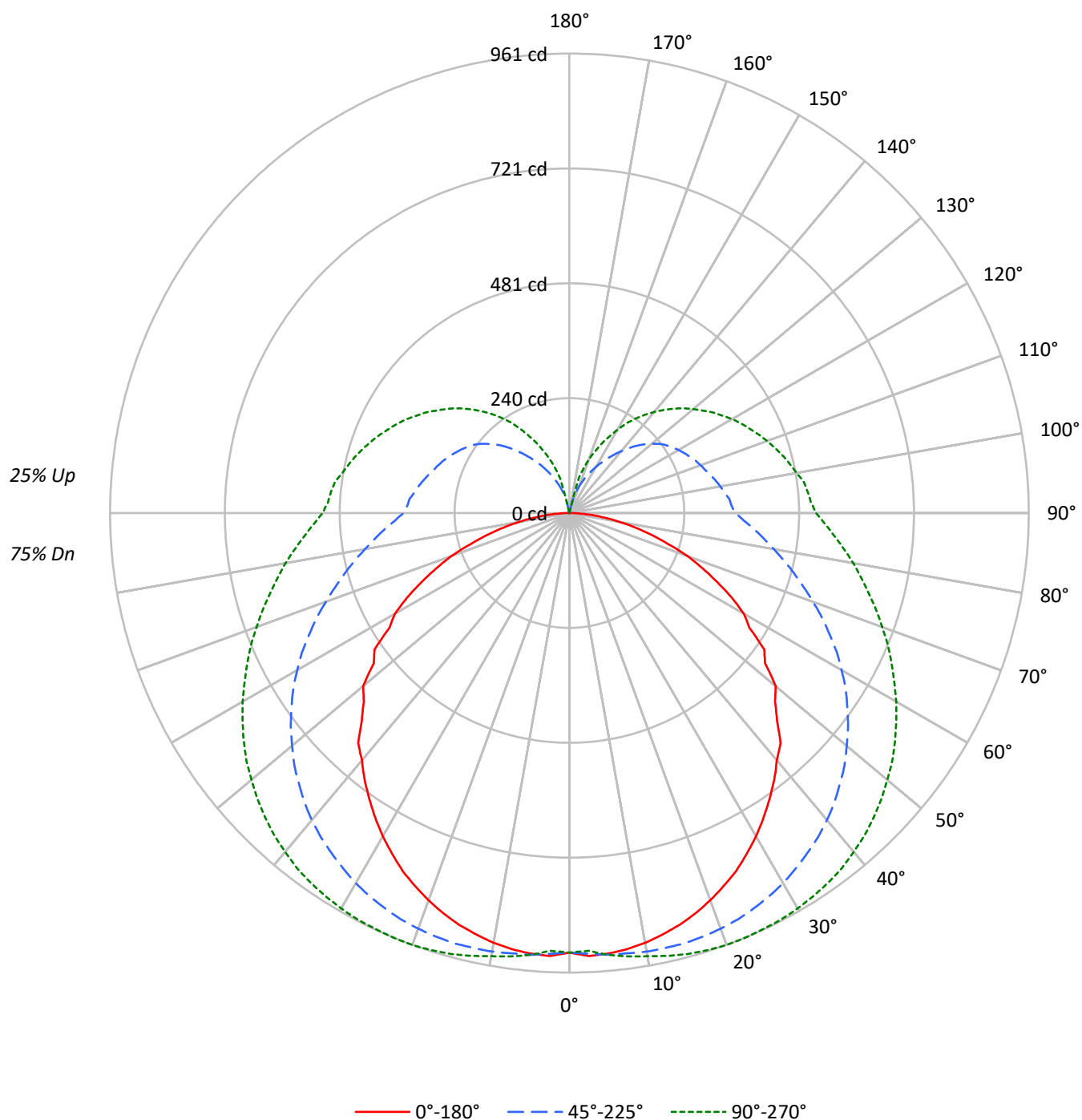
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	7426	7426	7426
5°	7483	7338	7283
10°	7447	7274	7243
15°	7396	7235	7258
20°	7326	7201	7272
25°	7257	7175	7284
30°	7156	7153	7322
35°	7044	7128	7373
40°	6939	7123	7421
45°	6808	7105	7480
50°	6827	7090	7540
55°	6706	7090	7628
60°	6461	7095	7732
65°	6102	7104	7876
70°	5710	7157	8098
75°	5011	7321	8426
80°	4230	7674	8967
85°	3143	8388	9760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.7
10°-20°	261.7	4.9
20°-30°	416.0	7.9
30°-40°	533.9	10.1
40°-50°	602.9	11.4
50°-60°	615.2	11.6
60°-70°	570.0	10.8
70°-80°	482.5	9.1
80°-90°	385.1	7.3
90°-100°	327.1	6.2
100°-110°	291.4	5.5
110°-120°	248.2	4.7
120°-130°	197.1	3.7
130°-140°	139.9	2.6
140°-150°	83.5	1.6
150°-160°	38.9	0.7
160°-170°	9.2	0.2
170°-180°	0.0	0.0
0°-30°	766.1	14.5
0°-40°	1300.0	24.6
0°-60°	2518.1	47.6
0°-90°	3955.7	74.8
90°-120°	866.6	16.4
90°-150°	1287.1	24.3
90°-180°	1335.0	25.2
0°-180°	5291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	925	918	927	927	927	88
15°	891	899	931	948	955	251
25°	826	853	913	945	960	380
35°	730	783	868	921	944	457
45°	614	698	800	870	900	477
55°	497	581	710	797	832	437
65°	340	454	601	704	744	338
75°	179	317	486	606	648	191
85°	46	204	388	513	557	50
90°	2	167	347	472	516	4
95°	0	157	336	459	501	0
105°	0	144	306	421	463	0
115°	0	134	278	379	416	0
125°	0	116	247	334	367	0
135°	0	86	199	282	308	0
145°	0	56	139	211	241	1
155°	1	35	86	129	160	1
165°	1	19	39	53	76	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°	918.9	918.9	918.9	918.9	918.9
2.5°	927.3	917.6	922.6	921.3	916.3
5°	925.0	917.6	927.3	927.3	927.3
7.5°	920.0	914.9	928.7	933.7	935.1
10°	912.6	912.6	931.4	938.7	941.1
12.5°	902.5	906.2	931.4	942.4	948.5
15°	891.4	898.8	931.4	948.5	954.8
17.5°	877.7	890.1	928.7	949.8	958.5
20°	861.6	880.4	925.0	949.8	961.2
22.5°	844.1	868.0	920.0	947.5	961.2
25°	825.7	852.9	912.6	944.8	959.9
27.5°	803.2	838.1	903.8	941.1	958.5
30°	780.7	820.6	893.8	936.1	954.8
32.5°	755.9	801.9	881.4	928.7	949.8
35°	729.7	783.4	868.0	921.3	943.8
37.5°	703.6	760.9	854.2	911.2	936.1
40°	675.0	738.4	838.1	898.8	925.0
42.5°	653.9	715.0	820.6	886.4	913.9
45°	614.3	697.5	800.5	870.3	900.2
47.5°	583.1	664.0	780.7	854.2	885.1
50°	563.3	636.5	757.2	835.4	868.0
52.5°	516.0	618.0	734.8	817.0	851.5
55°	497.2	580.8	709.9	796.8	831.7
57.5°	446.2	554.6	685.1	774.7	810.6
60°	421.4	518.4	657.6	752.2	789.4
62.5°	382.8	487.5	630.4	727.4	766.0
65°	340.5	453.9	600.6	703.6	743.5
67.5°	300.9	420.4	572.0	678.7	721.0
70°	262.4	385.5	542.2	653.9	696.2
72.5°	217.4	350.6	513.3	630.4	672.7
75°	179.2	317.1	486.1	605.6	647.9
77.5°	141.6	284.8	460.0	583.1	625.4
80°	107.0	253.6	433.8	559.6	602.9
82.5°	74.5	227.5	410.3	537.1	579.4
85°	46.0	204.0	387.8	513.3	556.9
87.5°	21.1	182.8	365.4	491.2	535.8
90°	2.3	166.7	346.9	472.4	516.0
92.5°	1.3	161.7	339.5	463.7	505.9
95°	0.0	156.7	335.8	458.6	500.9
97.5°	0.0	151.6	327.1	451.3	494.9
100°	0.0	149.3	320.7	440.2	482.5
102.5°	0.0	145.6	313.4	430.1	472.4
105°	0.0	144.3	306.0	421.4	462.7
107.5°	0.0	141.6	298.3	410.3	451.3
110°	0.0	139.2	292.2	400.3	440.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	136.9	285.8	390.5	428.8
115°	0.0	134.2	278.5	379.1	416.4
117.5°	0.0	130.5	271.1	368.0	405.3
120°	0.0	125.5	263.7	358.0	392.9
122.5°	0.0	120.4	256.0	345.6	379.1
125°	0.0	115.7	247.3	334.5	366.7
127.5°	0.0	108.0	237.5	322.1	351.9
130°	0.0	100.7	225.1	309.7	338.2
132.5°	1.3	93.3	212.7	295.9	324.4
135°	0.0	85.9	199.0	282.2	308.3
137.5°	0.0	79.5	183.9	267.4	292.2
140°	0.0	72.1	169.1	250.0	276.1
142.5°	0.0	63.4	154.3	231.2	258.7
145°	0.0	56.0	139.2	211.4	241.2
147.5°	1.3	49.7	125.5	190.2	222.4
150°	1.3	44.6	112.1	169.1	201.3
152.5°	1.3	39.9	98.3	149.3	180.2
155°	1.3	34.9	85.9	129.2	160.4
157.5°	1.3	29.9	72.1	109.4	139.2
160°	1.3	26.2	59.7	91.9	119.4
162.5°	1.3	22.5	48.6	72.1	98.3
165°	1.3	18.8	38.6	53.3	75.8
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)