

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: P284664

Luminaire Tested: **4SNLED-LD5-52SL-SLW-UNV-L935-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: P284664
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-L935-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: 4371.0 lumens
Efficiency: N/A
Efficacy: 84.1 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

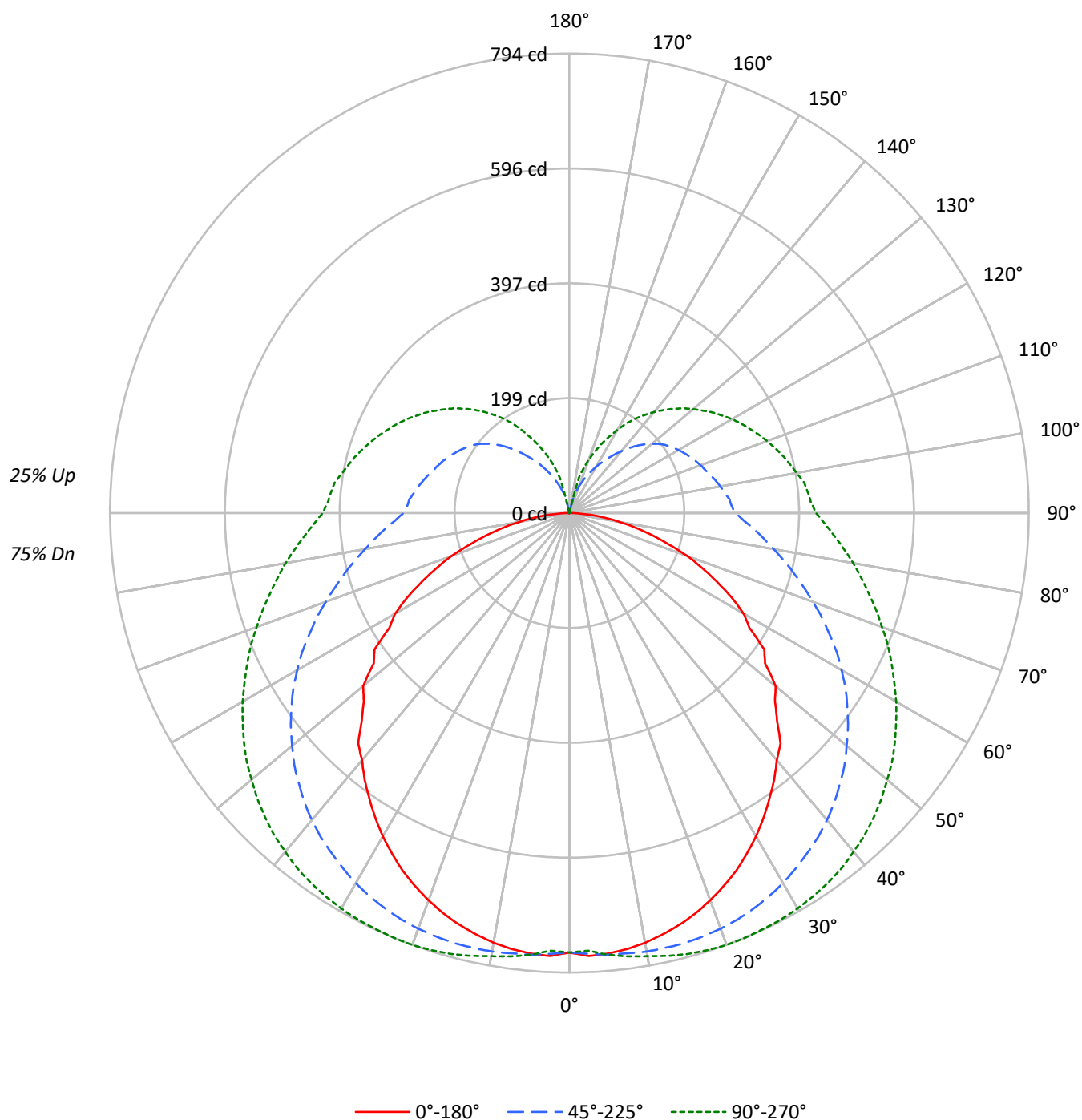
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	6135	6135	6135
5°	6181	6062	6017
10°	6152	6009	5984
15°	6110	5976	5996
20°	6052	5948	6008
25°	5995	5927	6017
30°	5912	5909	6049
35°	5819	5888	6091
40°	5733	5884	6130
45°	5624	5870	6179
50°	5641	5858	6228
55°	5540	5858	6302
60°	5337	5861	6388
65°	5041	5868	6507
70°	4715	5912	6689
75°	4138	6049	6960
80°	3495	6340	7408
85°	2596	6930	8063



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.7
10°-20°	216.2	4.9
20°-30°	343.7	7.9
30°-40°	441.1	10.1
40°-50°	498.1	11.4
50°-60°	508.2	11.6
60°-70°	470.8	10.8
70°-80°	398.6	9.1
80°-90°	318.2	7.3
90°-100°	270.2	6.2
100°-110°	240.7	5.5
110°-120°	205.0	4.7
120°-130°	162.8	3.7
130°-140°	115.5	2.6
140°-150°	69.0	1.6
150°-160°	32.2	0.7
160°-170°	7.6	0.2
170°-180°	0.0	0.0
0°-30°	632.9	14.5
0°-40°	1073.9	24.6
0°-60°	2080.2	47.6
0°-90°	3267.9	74.8
90°-120°	716.0	16.4
90°-150°	1063.3	24.3
90°-180°	1103.0	25.2
0°-180°	4371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	764	758	766	766	766	73
15°	736	742	769	784	789	208
25°	682	705	754	780	793	314
35°	603	647	717	761	780	377
45°	508	576	661	719	744	394
55°	411	480	586	658	687	361
65°	281	375	496	581	614	279
75°	148	262	402	500	535	157
85°	38	168	320	424	460	41
90°	2	138	287	390	426	3
95°	0	129	277	379	414	0
105°	0	119	253	348	382	0
115°	0	111	230	313	344	0
125°	0	96	204	276	303	0
135°	0	71	164	233	255	0
145°	0	46	115	175	199	0
155°	1	29	71	107	132	1
165°	1	16	32	44	63	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°	759.2	759.2	759.2	759.2	759.2
2.5°	766.1	758.1	762.2	761.1	756.9
5°	764.1	758.1	766.1	766.1	766.1
7.5°	760.0	755.8	767.2	771.4	772.5
10°	753.9	753.9	769.4	775.5	777.5
12.5°	745.6	748.6	769.4	778.6	783.6
15°	736.4	742.5	769.4	783.6	788.8
17.5°	725.1	735.3	767.2	784.7	791.9
20°	711.8	727.3	764.1	784.7	794.1
22.5°	697.4	717.0	760.0	782.7	794.1
25°	682.1	704.6	753.9	780.5	793.0
27.5°	663.5	692.4	746.7	777.5	791.9
30°	645.0	678.0	738.4	773.3	788.8
32.5°	624.5	662.4	728.1	767.2	784.7
35°	602.8	647.2	717.0	761.1	779.7
37.5°	581.2	628.6	705.7	752.8	773.3
40°	557.7	610.0	692.4	742.5	764.1
42.5°	540.2	590.6	678.0	732.3	755.0
45°	507.5	576.2	661.3	719.0	743.6
47.5°	481.7	548.5	645.0	705.7	731.2
50°	465.4	525.8	625.6	690.1	717.0
52.5°	426.3	510.5	607.0	674.9	703.4
55°	410.8	479.8	586.5	658.3	687.1
57.5°	368.6	458.2	566.0	640.0	669.6
60°	348.1	428.2	543.2	621.4	652.2
62.5°	316.2	402.7	520.8	600.9	632.8
65°	281.3	375.0	496.1	581.2	614.2
67.5°	248.6	347.3	472.6	560.7	595.6
70°	216.7	318.5	447.9	540.2	575.1
72.5°	179.6	289.6	424.1	520.8	555.7
75°	148.0	261.9	401.6	500.3	535.2
77.5°	117.0	235.3	380.0	481.7	516.6
80°	88.4	209.5	358.4	462.3	498.1
82.5°	61.5	187.9	339.0	443.7	478.7
85°	38.0	168.5	320.4	424.1	460.1
87.5°	17.5	151.1	301.8	405.8	442.6
90°	1.9	137.8	286.6	390.3	426.3
92.5°	1.1	133.6	280.5	383.0	418.0
95°	0.0	129.4	277.4	378.9	413.8
97.5°	0.0	125.3	270.2	372.8	408.8
100°	0.0	123.3	265.0	363.6	398.6
102.5°	0.0	120.3	258.9	355.3	390.3
105°	0.0	119.2	252.8	348.1	382.2
107.5°	0.0	117.0	246.4	339.0	372.8
110°	0.0	115.0	241.4	330.7	363.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	113.1	236.1	322.6	354.2
115°	0.0	110.9	230.0	313.2	344.0
117.5°	0.0	107.8	224.0	304.1	334.8
120°	0.0	103.7	217.9	295.7	324.6
122.5°	0.0	99.5	211.5	285.5	313.2
125°	0.0	95.6	204.3	276.3	302.9
127.5°	0.0	89.2	196.2	266.1	290.7
130°	0.0	83.2	186.0	255.8	279.4
132.5°	1.1	77.1	175.7	244.5	268.0
135°	0.0	71.0	164.4	233.1	254.7
137.5°	0.0	65.7	151.9	220.9	241.4
140°	0.0	59.6	139.7	206.5	228.1
142.5°	0.0	52.4	127.5	191.0	213.7
145°	0.0	46.3	115.0	174.6	199.3
147.5°	1.1	41.0	103.7	157.2	183.8
150°	1.1	36.9	92.6	139.7	166.3
152.5°	1.1	33.0	81.2	123.3	148.8
155°	1.1	28.8	71.0	106.7	132.5
157.5°	1.1	24.7	59.6	90.4	115.0
160°	1.1	21.6	49.3	75.9	98.7
162.5°	1.1	18.6	40.2	59.6	81.2
165°	1.1	15.5	31.9	44.1	62.6
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)