

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: P284703

Luminaire Tested: **4SNLED-LD5-52SL-SLW-UNV-L940-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: P284703
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-L940-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: 4474.0 lumens
Efficiency: N/A
Efficacy: 86.0 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

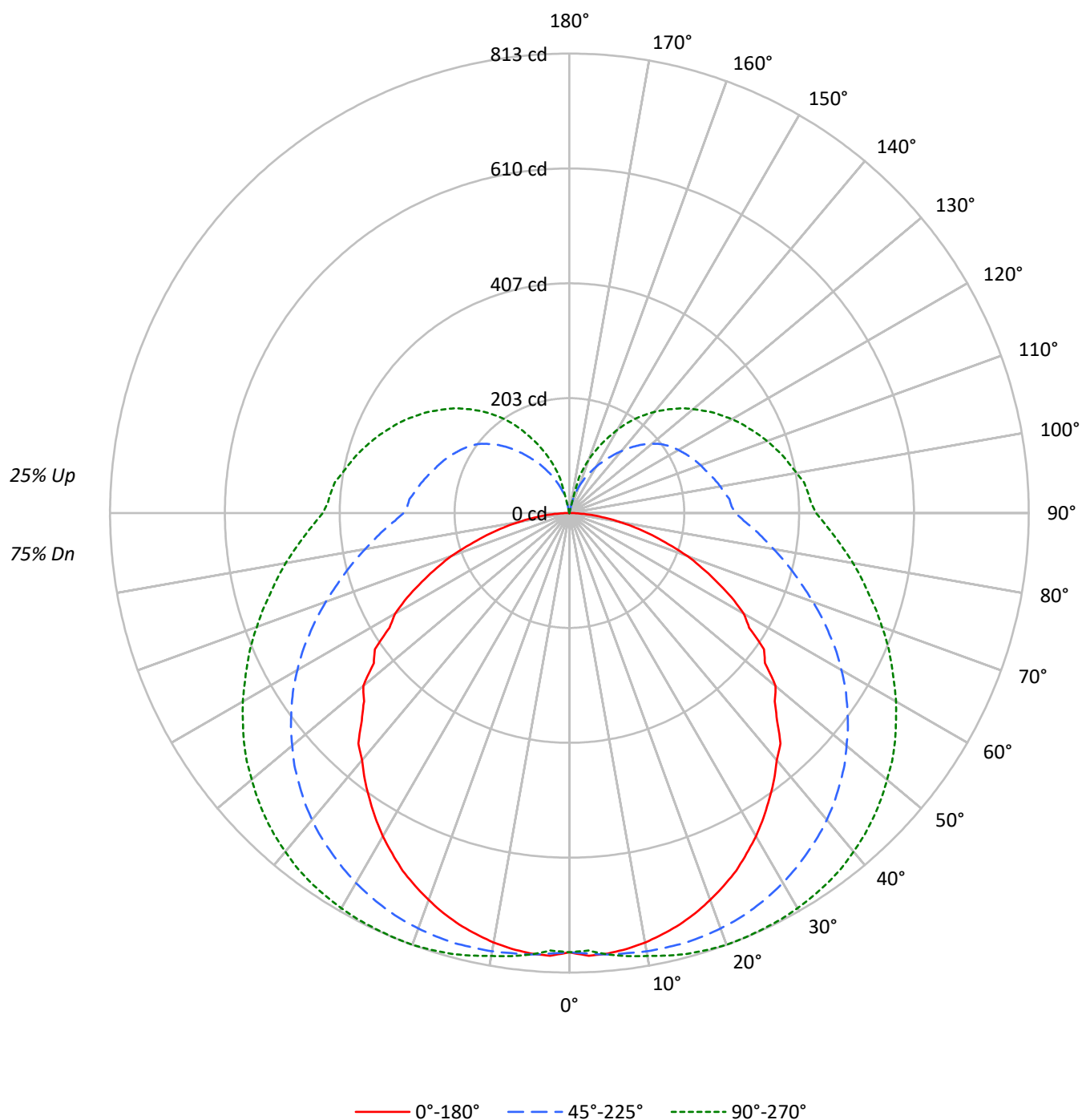
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6279	6279	6279
5°	6328	6204	6158
10°	6298	6150	6125
15°	6254	6117	6137
20°	6194	6089	6150
25°	6136	6067	6159
30°	6051	6048	6192
35°	5956	6027	6234
40°	5868	6023	6275
45°	5757	6008	6325
50°	5773	5995	6375
55°	5670	5996	6451
60°	5463	5999	6538
65°	5161	6006	6660
70°	4828	6052	6847
75°	4236	6192	7124
80°	3578	6489	7582
85°	2658	7095	8253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	1.7
10°-20°	221.3	4.9
20°-30°	351.8	7.9
30°-40°	451.5	10.1
40°-50°	509.8	11.4
50°-60°	520.2	11.6
60°-70°	481.9	10.8
70°-80°	408.0	9.1
80°-90°	325.7	7.3
90°-100°	276.6	6.2
100°-110°	246.4	5.5
110°-120°	209.9	4.7
120°-130°	166.7	3.7
130°-140°	118.3	2.6
140°-150°	70.6	1.6
150°-160°	32.9	0.7
160°-170°	7.8	0.2
170°-180°	0.0	0.0
0°-30°	647.8	14.5
0°-40°	1099.2	24.6
0°-60°	2129.2	47.6
0°-90°	3344.9	74.8
90°-120°	732.8	16.4
90°-150°	1088.4	24.3
90°-180°	1129.0	25.2
0°-180°	4474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	782	776	784	784	784	74
15°	754	760	788	802	807	213
25°	698	721	772	799	812	321
35°	617	662	734	779	798	386
45°	520	590	677	736	761	403
55°	420	491	600	674	703	369
65°	288	384	508	595	629	286
75°	152	268	411	512	548	161
85°	39	172	328	434	471	42
90°	2	141	293	399	436	3
95°	0	132	284	388	424	0
105°	0	122	259	356	391	0
115°	0	114	236	321	352	0
125°	0	98	209	283	310	0
135°	0	73	168	239	261	0
145°	0	47	118	179	204	0
155°	1	30	73	109	136	1
165°	1	16	33	45	64	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°	777.0	777.0	777.0	777.0	777.0
2.5°	784.1	775.9	780.2	779.0	774.8
5°	782.2	775.9	784.1	784.1	784.1
7.5°	777.9	773.6	785.3	789.5	790.7
10°	771.7	771.7	787.5	793.8	795.8
12.5°	763.1	766.3	787.5	796.9	802.0
15°	753.8	760.0	787.5	802.0	807.4
17.5°	742.2	752.7	785.3	803.1	810.5
20°	728.5	744.4	782.2	803.1	812.8
22.5°	713.8	733.9	777.9	801.2	812.8
25°	698.2	721.2	771.7	798.9	811.7
27.5°	679.2	708.7	764.3	795.8	810.5
30°	660.2	693.9	755.8	791.5	807.4
32.5°	639.2	678.0	745.3	785.3	803.1
35°	617.0	662.4	733.9	779.0	798.0
37.5°	594.9	643.4	722.3	770.5	791.5
40°	570.8	624.4	708.7	760.0	782.2
42.5°	552.9	604.6	693.9	749.5	772.8
45°	519.5	589.8	676.9	735.9	761.2
47.5°	493.1	561.4	660.2	722.3	748.4
50°	476.3	538.2	640.3	706.4	733.9
52.5°	436.3	522.6	621.3	690.8	720.0
55°	420.4	491.1	600.3	673.8	703.3
57.5°	377.3	469.0	579.3	655.1	685.4
60°	356.3	438.3	556.0	636.1	667.5
62.5°	323.7	412.2	533.1	615.1	647.7
65°	288.0	383.8	507.8	594.9	628.7
67.5°	254.5	355.5	483.7	573.9	609.7
70°	221.9	326.0	458.5	552.9	588.7
72.5°	183.8	296.5	434.1	533.1	568.8
75°	151.5	268.1	411.1	512.1	547.8
77.5°	119.7	240.9	389.0	493.1	528.8
80°	90.5	214.5	366.8	473.2	509.8
82.5°	63.0	192.3	347.0	454.2	489.9
85°	38.9	172.5	328.0	434.1	470.9
87.5°	17.9	154.6	308.9	415.3	453.1
90°	2.0	141.0	293.3	399.4	436.3
92.5°	1.1	136.7	287.1	392.1	427.8
95°	0.0	132.5	284.0	387.8	423.6
97.5°	0.0	128.2	276.6	381.6	418.5
100°	0.0	126.2	271.2	372.2	408.0
102.5°	0.0	123.1	265.0	363.7	399.4
105°	0.0	122.0	258.7	356.3	391.2
107.5°	0.0	119.7	252.2	347.0	381.6
110°	0.0	117.7	247.1	338.5	372.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	115.7	241.7	330.2	362.6
115°	0.0	113.5	235.5	320.6	352.1
117.5°	0.0	110.4	229.2	311.2	342.7
120°	0.0	106.1	223.0	302.7	332.2
122.5°	0.0	101.8	216.5	292.2	320.6
125°	0.0	97.9	209.1	282.8	310.1
127.5°	0.0	91.4	200.9	272.4	297.6
130°	0.0	85.1	190.4	261.9	286.0
132.5°	1.1	78.9	179.9	250.2	274.3
135°	0.0	72.6	168.2	238.6	260.7
137.5°	0.0	67.2	155.5	226.1	247.1
140°	0.0	61.0	143.0	211.4	233.5
142.5°	0.0	53.6	130.5	195.5	218.7
145°	0.0	47.4	117.7	178.7	204.0
147.5°	1.1	42.0	106.1	160.9	188.1
150°	1.1	37.7	94.8	143.0	170.2
152.5°	1.1	33.8	83.1	126.2	152.3
155°	1.1	29.5	72.6	109.2	135.6
157.5°	1.1	25.2	61.0	92.5	117.7
160°	1.1	22.1	50.5	77.7	101.0
162.5°	1.1	19.0	41.1	61.0	83.1
165°	1.1	15.9	32.6	45.1	64.1
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)