

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: P284742

Luminaire Tested: **4SNLED-LD5-52SL-SLW-UNV-L950-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: P284742
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-L950-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: 4769.0 lumens
Efficiency: N/A
Efficacy: 91.7 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

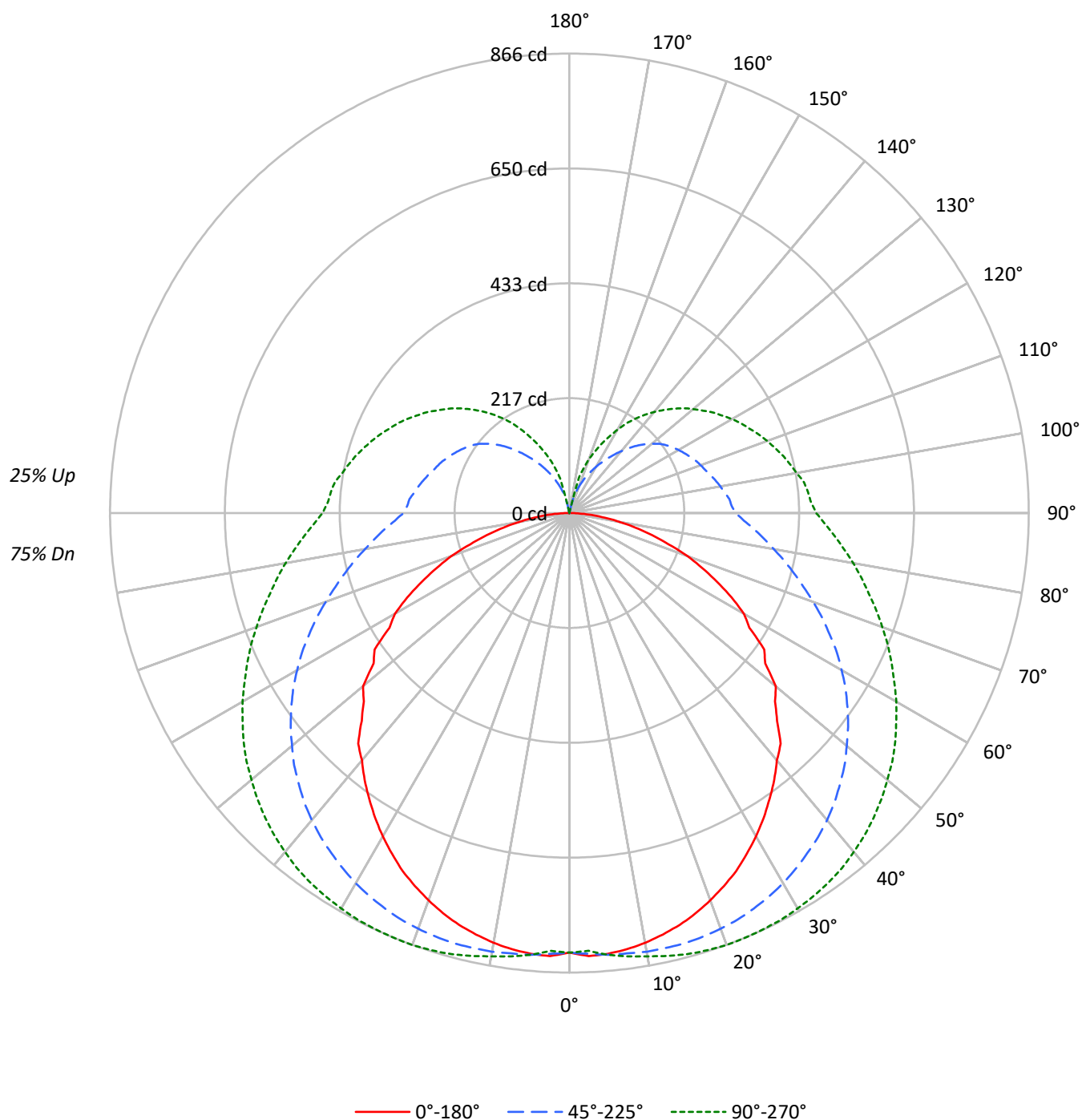
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6694	6694	6694
5°	6744	6614	6564
10°	6712	6556	6528
15°	6666	6521	6542
20°	6603	6490	6555
25°	6540	6467	6565
30°	6450	6447	6600
35°	6349	6424	6646
40°	6254	6420	6688
45°	6136	6404	6742
50°	6154	6390	6795
55°	6045	6391	6876
60°	5823	6395	6970
65°	5500	6403	7099
70°	5146	6451	7299
75°	4516	6600	7593
80°	3815	6917	8082
85°	2828	7562	8798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	1.7
10°-20°	235.9	4.9
20°-30°	375.0	7.9
30°-40°	481.2	10.1
40°-50°	543.4	11.4
50°-60°	554.5	11.6
60°-70°	513.7	10.8
70°-80°	434.9	9.1
80°-90°	347.2	7.3
90°-100°	294.8	6.2
100°-110°	262.6	5.5
110°-120°	223.7	4.7
120°-130°	177.7	3.7
130°-140°	126.0	2.6
140°-150°	75.3	1.6
150°-160°	35.1	0.7
160°-170°	8.3	0.2
170°-180°	0.0	0.0
0°-30°	690.5	14.5
0°-40°	1171.7	24.6
0°-60°	2269.6	47.6
0°-90°	3565.4	74.8
90°-120°	781.1	16.4
90°-150°	1160.1	24.3
90°-180°	1204.0	25.2
0°-180°	4769.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	834	827	836	836	836	79
15°	804	810	840	855	861	227
25°	744	769	822	852	865	343
35°	658	706	782	830	851	412
45°	554	629	722	784	811	430
55°	448	524	640	718	750	393
65°	307	409	541	634	670	305
75°	162	286	438	546	584	172
85°	41	184	350	463	502	45
90°	2	150	313	426	465	3
95°	0	141	303	413	452	0
105°	0	130	276	380	417	0
115°	0	121	251	342	375	0
125°	0	104	223	302	330	0
135°	0	77	179	254	278	0
145°	0	50	126	190	217	0
155°	1	32	77	116	144	1
165°	1	17	35	48	68	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°	828.3	828.3	828.3	828.3	828.3
2.5°	835.8	827.1	831.6	830.4	825.9
5°	833.7	827.1	835.8	835.8	835.8
7.5°	829.2	824.7	837.1	841.6	842.8
10°	822.5	822.5	839.5	846.1	848.2
12.5°	813.5	816.8	839.5	849.5	854.9
15°	803.5	810.1	839.5	854.9	860.6
17.5°	791.1	802.3	837.1	856.1	864.0
20°	776.6	793.5	833.7	856.1	866.4
22.5°	760.8	782.3	829.2	854.0	866.4
25°	744.2	768.7	822.5	851.6	865.2
27.5°	724.0	755.4	814.7	848.2	864.0
30°	703.7	739.7	805.6	843.7	860.6
32.5°	681.3	722.7	794.4	837.1	856.1
35°	657.7	706.1	782.3	830.4	850.7
37.5°	634.1	685.9	769.9	821.3	843.7
40°	608.4	665.6	755.4	810.1	833.7
42.5°	589.4	644.4	739.7	799.0	823.7
45°	553.7	628.7	721.5	784.4	811.4
47.5°	525.6	598.5	703.7	769.9	797.7
50°	507.7	573.7	682.5	753.0	782.3
52.5°	465.1	557.0	662.3	736.4	767.5
55°	448.2	523.5	639.9	718.2	749.7
57.5°	402.2	499.9	617.5	698.3	730.6
60°	379.8	467.2	592.7	678.0	711.6
62.5°	345.0	439.4	568.2	655.6	690.4
65°	306.9	409.2	541.3	634.1	670.1
67.5°	271.3	378.9	515.6	611.8	649.9
70°	236.5	347.5	488.7	589.4	627.5
72.5°	196.0	316.0	462.7	568.2	606.3
75°	161.5	285.8	438.2	545.8	583.9
77.5°	127.6	256.7	414.6	525.6	563.7
80°	96.5	228.6	391.0	504.4	543.4
82.5°	67.1	205.0	369.8	484.1	522.3
85°	41.4	183.9	349.6	462.7	502.0
87.5°	19.1	164.8	329.3	442.7	482.9
90°	2.1	150.3	312.7	425.8	465.1
92.5°	1.2	145.8	306.0	417.9	456.0
95°	0.0	141.2	302.7	413.4	451.5
97.5°	0.0	136.7	294.8	406.7	446.0
100°	0.0	134.6	289.1	396.8	434.9
102.5°	0.0	131.2	282.4	387.7	425.8
105°	0.0	130.0	275.8	379.8	417.0
107.5°	0.0	127.6	268.8	369.8	406.7
110°	0.0	125.5	263.4	360.8	396.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	123.4	257.6	352.0	386.5
115°	0.0	121.0	251.0	341.7	375.3
117.5°	0.0	117.6	244.3	331.7	365.3
120°	0.0	113.1	237.7	322.7	354.1
122.5°	0.0	108.6	230.7	311.5	341.7
125°	0.0	104.3	222.9	301.5	330.5
127.5°	0.0	97.4	214.1	290.3	317.2
130°	0.0	90.7	202.9	279.1	304.8
132.5°	1.2	84.1	191.7	266.7	292.4
135°	0.0	77.4	179.3	254.3	277.9
137.5°	0.0	71.7	165.7	241.0	263.4
140°	0.0	65.0	152.4	225.3	248.9
142.5°	0.0	57.2	139.1	208.4	233.2
145°	0.0	50.5	125.5	190.5	217.4
147.5°	1.2	44.8	113.1	171.5	200.5
150°	1.2	40.2	101.0	152.4	181.4
152.5°	1.2	36.0	88.6	134.6	162.4
155°	1.2	31.5	77.4	116.4	144.5
157.5°	1.2	26.9	65.0	98.6	125.5
160°	1.2	23.6	53.8	82.9	107.7
162.5°	1.2	20.3	43.8	65.0	88.6
165°	1.2	16.9	34.8	48.1	68.3
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)