

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: P236267

Luminaire Tested: **4SWLED-28SL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SWLED-28SL-LW-UNV-L850-CD1-U  
Description: METALUX SWLED LINEAR LUMINAIRE  
4FT FIXTURE WITH 1 ROW LED, WIDE LENS  
Light Source: (112) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

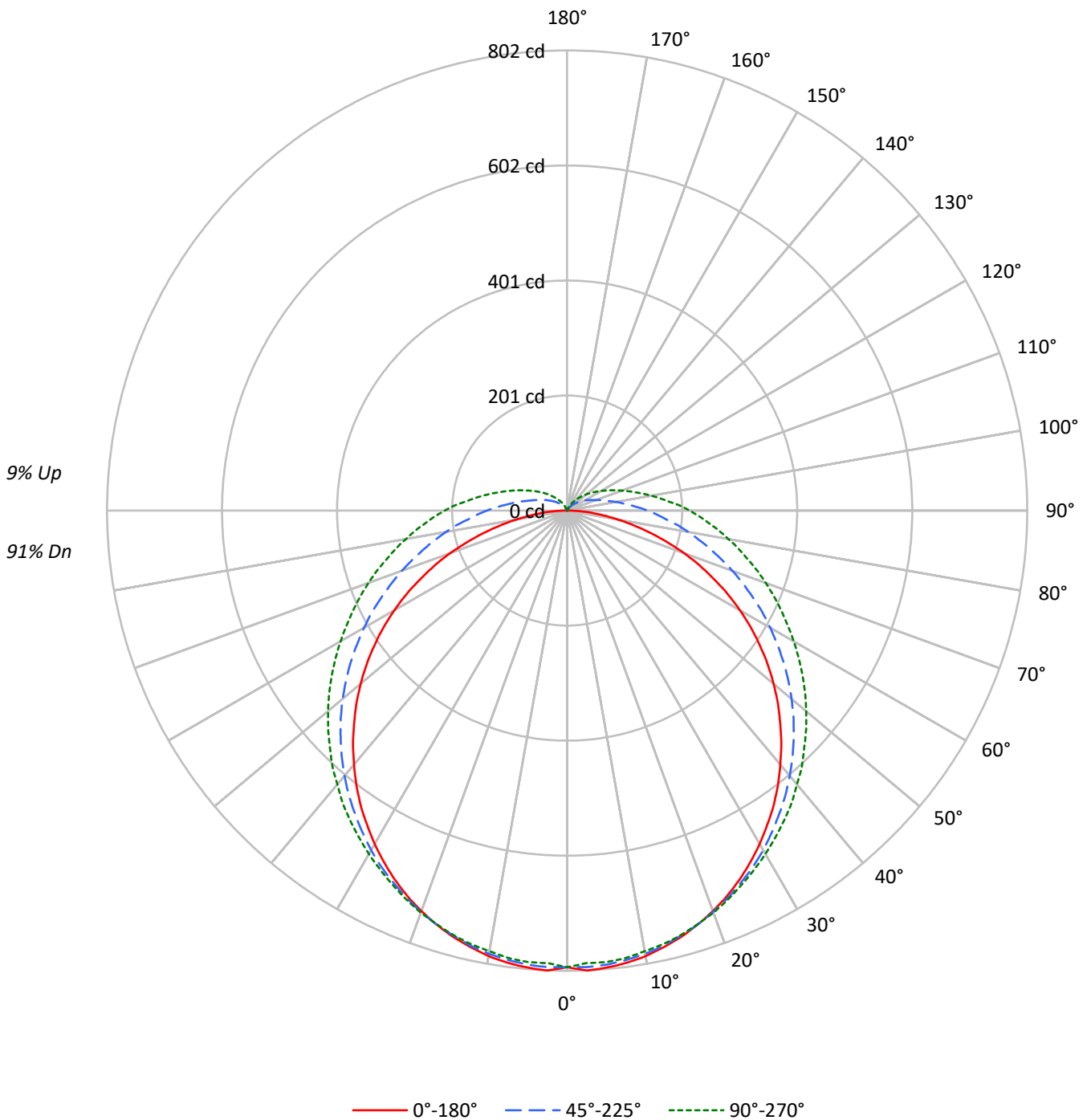
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2915.0 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')  
CIE Type: Direct  
  
Input Watts (W): 24.8  
Input Voltage (V): 120  
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	104	99	94	89	101	96	91	87	90	86	82	84	81	78	79	76	74	71
2	94	85	77	71	91	82	75	69	77	71	66	72	68	63	68	64	61	58
3	85	74	65	58	82	72	63	57	67	60	55	63	57	53	60	55	51	48
4	78	65	56	49	75	63	55	48	59	52	46	56	50	45	53	47	43	40
5	71	58	49	42	69	56	47	41	53	45	40	50	43	38	47	42	37	35
6	66	52	43	36	63	51	42	35	48	40	34	45	39	33	43	37	32	30
7	61	47	38	32	59	46	37	31	43	36	30	41	34	29	39	33	29	26
8	57	43	34	28	55	42	33	28	40	32	27	38	31	26	36	30	26	23
9	53	39	31	25	51	38	30	25	36	29	24	35	28	24	33	27	23	21
10	50	36	28	23	48	35	28	22	34	27	22	32	26	21	31	25	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5711	5711	5711
5°	5740	5576	5503
10°	5710	5426	5317
15°	5658	5272	5154
20°	5598	5123	4988
25°	5528	4971	4823
30°	5445	4824	4678
35°	5359	4666	4539
40°	5254	4513	4400
45°	5140	4357	4271
50°	5026	4195	4149
55°	4879	4029	4030
60°	4695	3858	3910
65°	4449	3680	3812
70°	4127	3520	3734
75°	3651	3368	3679
80°	3082	3271	3679
85°	2406	3206	3744



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.3	2.6
10°-20°	216.0	7.4
20°-30°	328.9	11.3
30°-40°	401.7	13.8
40°-50°	428.8	14.7
50°-60°	409.0	14.0
60°-70°	348.9	12.0
70°-80°	263.6	9.0
80°-90°	176.9	6.1
90°-100°	110.9	3.8
100°-110°	69.1	2.4
110°-120°	42.4	1.5
120°-130°	24.7	0.8
130°-140°	12.6	0.4
140°-150°	5.0	0.2
150°-160°	1.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	620.2	21.3
0°-40°	1021.9	35.1
0°-60°	1859.7	63.8
0°-90°	2649.1	90.9
90°-120°	222.4	7.6
90°-150°	264.7	9.1
90°-180°	266.0	9.1
0°-180°	2915.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	799	791	794	791	790	76
15°	769	761	767	765	766	217
25°	710	705	716	717	720	327
35°	627	627	645	651	659	392
45°	525	534	558	574	584	405
55°	410	426	460	486	501	367
65°	282	309	356	395	412	280
75°	150	192	258	309	325	159
85°	41	97	173	229	248	44
90°	1	65	140	195	214	3
95°	0	42	110	160	178	0
105°	0	20	68	108	123	0
115°	0	12	44	72	84	0
125°	0	6	28	47	55	0
135°	0	2	15	29	34	0
145°	0	1	6	14	18	0
155°	1	0	2	4	6	0
165°	0	0	0	0	0	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°	795.8	795.8	795.8	795.8	795.8
2.5°	802.4	792.9	796.5	793.6	789.3
5°	799.4	790.7	794.4	790.7	790.0
7.5°	795.1	786.4	790.0	787.1	786.4
10°	788.6	779.1	784.2	780.6	779.8
12.5°	779.1	771.1	776.9	773.3	774.0
15°	769.0	761.0	766.8	765.3	766.0
17.5°	756.6	749.3	756.6	755.2	755.9
20°	742.8	736.3	744.3	743.5	745.7
22.5°	727.6	721.0	731.2	729.7	733.4
25°	710.1	705.1	715.9	716.7	719.6
27.5°	691.3	687.6	700.7	701.4	705.8
30°	670.9	668.0	683.3	686.2	691.3
32.5°	649.1	648.4	664.4	669.5	675.3
35°	627.4	626.6	644.8	651.3	659.3
37.5°	603.4	604.9	625.2	633.9	642.6
40°	578.0	580.2	603.4	614.3	623.0
42.5°	552.6	558.4	581.6	595.4	605.6
45°	525.0	533.7	558.4	574.4	584.5
47.5°	498.1	508.3	535.1	553.3	564.9
50°	469.8	481.4	510.5	531.5	543.9
52.5°	440.7	453.8	485.8	509.7	522.8
55°	410.3	426.2	460.4	486.5	501.0
57.5°	379.8	397.9	434.2	464.7	478.5
60°	347.8	368.1	408.8	440.7	456.0
62.5°	315.9	339.1	383.4	419.0	433.5
65°	282.5	308.6	356.5	395.0	411.7
67.5°	249.8	279.6	331.1	372.5	389.9
70°	216.4	249.1	306.4	350.7	368.1
72.5°	183.0	220.0	281.7	329.7	347.1
75°	149.6	191.7	257.8	308.6	325.3
77.5°	118.4	163.4	235.3	286.8	305.7
80°	90.0	138.7	214.2	267.2	285.4
82.5°	63.9	116.9	193.9	247.6	266.5
85°	41.4	96.6	172.8	228.7	247.6
87.5°	20.3	79.1	156.1	211.3	230.2
90°	0.7	65.4	140.1	194.6	213.5
92.5°	0.0	52.3	124.2	176.4	196.8
95°	0.0	42.1	109.6	159.7	177.9
97.5°	0.0	34.9	97.3	145.9	163.4
100°	0.0	28.3	86.4	132.2	148.9
102.5°	0.0	24.0	76.2	119.8	135.8
105°	0.0	20.3	67.5	108.2	123.4
107.5°	0.0	18.2	60.3	98.0	111.8
110°	0.0	16.0	53.7	88.6	101.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	13.8	47.9	79.9	92.2
115°	0.0	11.6	43.6	71.9	83.5
117.5°	0.0	10.2	39.2	64.6	75.5
120°	0.0	8.7	34.9	58.8	68.3
122.5°	0.0	7.3	31.2	53.0	61.7
125°	0.0	6.5	27.6	47.2	55.2
127.5°	0.0	5.1	24.7	42.1	50.1
130°	0.0	4.4	21.1	37.8	44.3
132.5°	0.0	2.9	18.2	33.4	39.2
135°	0.0	2.2	15.2	29.0	34.1
137.5°	0.0	1.5	13.1	25.4	29.8
140°	0.0	1.5	10.2	21.8	25.4
142.5°	0.0	0.7	8.0	18.2	21.8
145°	0.0	0.7	6.5	14.5	18.2
147.5°	0.7	0.0	4.4	11.6	14.5
150°	0.7	0.0	3.6	8.7	11.6
152.5°	0.7	0.0	2.2	6.5	8.7
155°	0.7	0.0	1.5	4.4	5.8
157.5°	0.7	0.7	0.7	2.2	3.6
160°	0.7	0.0	0.0	1.5	2.2
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
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)