

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: P236269

Luminaire Tested: **4SWLED-32SL-LW-UNV-L840-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236269  
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-32SL-LW-UNV-L840-CD1-U  
Description: METALUX SWLED LINEAR LUMINAIRE  
4FT FIXTURE WITH 1 ROW LED, WIDE LENS  
Light Source: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

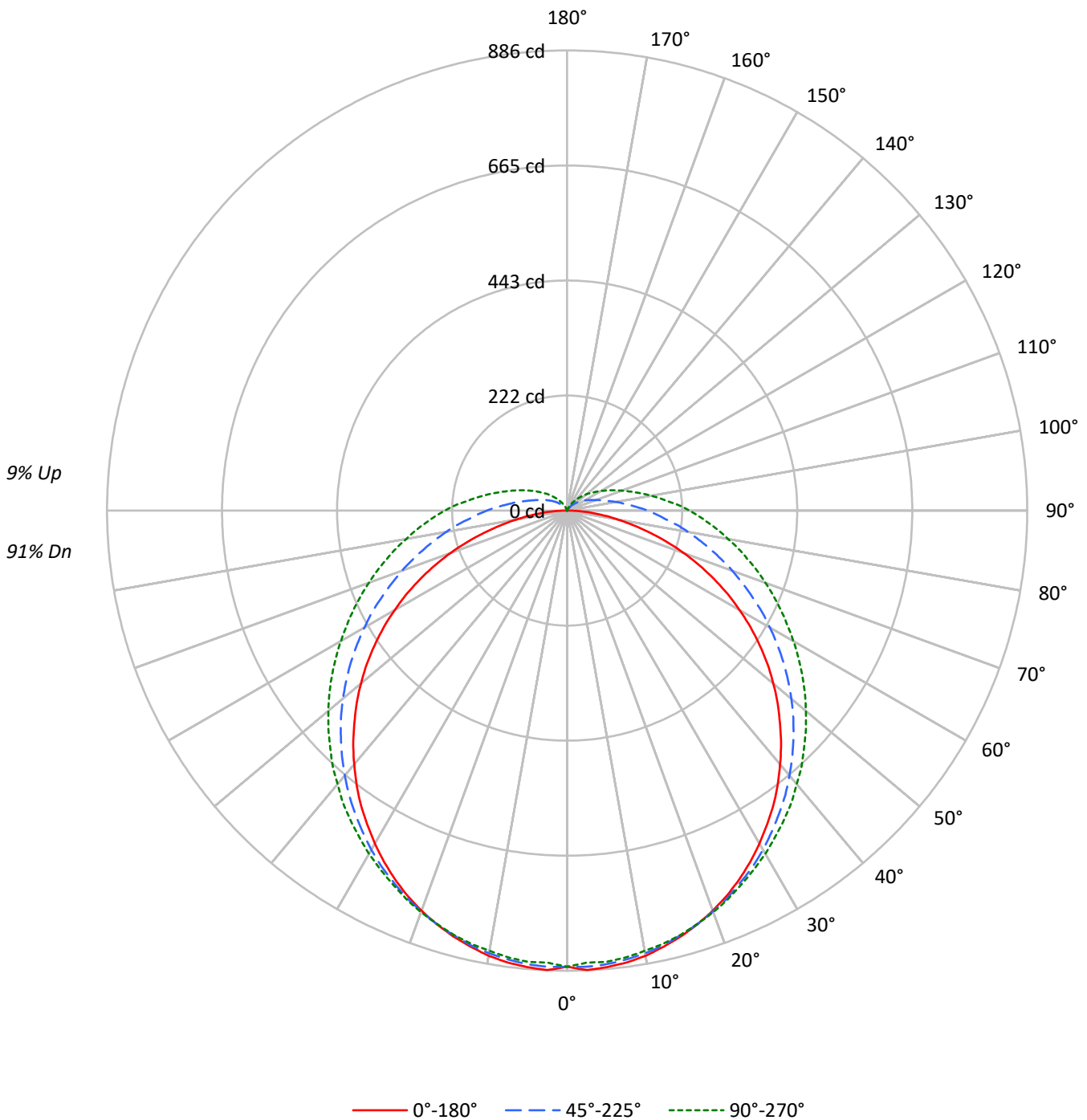
Lumens per Lamp: N/A  
Luminaire Lumens: 3217.0 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')  
CIE Type: Direct

Input Watts (W): 28.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	6303	6303	6303
5°	6335	6153	6074
10°	6301	5988	5868
15°	6243	5818	5688
20°	6178	5654	5506
25°	6101	5486	5322
30°	6009	5324	5162
35°	5915	5149	5010
40°	5798	4981	4856
45°	5673	4807	4714
50°	5547	4629	4579
55°	5385	4446	4447
60°	5181	4258	4315
65°	4909	4062	4207
70°	4554	3885	4121
75°	4029	3716	4060
80°	3404	3611	4060
85°	2656	3538	4133



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.1	2.6
10°-20°	238.4	7.4
20°-30°	362.9	11.3
30°-40°	443.3	13.8
40°-50°	473.2	14.7
50°-60°	451.4	14.0
60°-70°	385.1	12.0
70°-80°	290.9	9.0
80°-90°	195.2	6.1
90°-100°	122.4	3.8
100°-110°	76.2	2.4
110°-120°	46.8	1.5
120°-130°	27.3	0.8
130°-140°	13.9	0.4
140°-150°	5.5	0.2
150°-160°	1.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	684.4	21.3
0°-40°	1127.7	35.1
0°-60°	2052.3	63.8
0°-90°	2923.6	90.9
90°-120°	245.4	7.6
90°-150°	292.1	9.1
90°-180°	293.0	9.1
0°-180°	3217.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	882	873	877	873	872	84
15°	849	840	846	845	845	239
25°	784	778	790	791	794	361
35°	692	692	712	719	728	433
45°	579	589	616	634	645	447
55°	453	470	508	537	553	405
65°	312	341	394	436	454	309
75°	165	212	284	341	359	176
85°	46	107	191	252	273	48
90°	1	72	155	215	236	3
95°	0	46	121	176	196	0
105°	0	22	74	119	136	0
115°	0	13	48	79	92	0
125°	0	7	30	52	61	0
135°	0	2	17	32	38	0
145°	0	1	7	16	20	0
155°	1	0	2	5	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°	878.3	878.3	878.3	878.3	878.3
2.5°	885.5	875.1	879.1	875.9	871.1
5°	882.3	872.7	876.7	872.7	871.9
7.5°	877.5	867.8	871.9	868.7	867.8
10°	870.3	859.8	865.4	861.4	860.6
12.5°	859.8	851.0	857.4	853.4	854.2
15°	848.6	839.8	846.2	844.6	845.4
17.5°	835.0	827.0	835.0	833.4	834.2
20°	819.8	812.6	821.4	820.6	823.0
22.5°	802.9	795.7	806.9	805.3	809.4
25°	783.7	778.1	790.1	790.9	794.1
27.5°	762.9	758.9	773.3	774.1	778.9
30°	740.4	737.2	754.1	757.3	762.9
32.5°	716.4	715.6	733.2	738.8	745.2
35°	692.4	691.6	711.6	718.8	727.6
37.5°	665.9	667.5	690.0	699.6	709.2
40°	637.9	640.3	665.9	677.9	687.5
42.5°	609.8	616.2	641.9	657.1	668.3
45°	579.4	589.0	616.2	633.9	645.1
47.5°	549.7	560.9	590.6	610.6	623.4
50°	518.5	531.3	563.3	586.6	600.2
52.5°	486.4	500.8	536.1	562.5	577.0
55°	452.8	470.4	508.0	536.9	552.9
57.5°	419.1	439.1	479.2	512.9	528.1
60°	383.8	406.3	451.2	486.4	503.2
62.5°	348.6	374.2	423.1	462.4	478.4
65°	311.7	340.6	393.5	435.9	454.4
67.5°	275.7	308.5	365.4	411.1	430.3
70°	238.8	274.9	338.2	387.0	406.3
72.5°	201.9	242.8	310.9	363.8	383.0
75°	165.1	211.6	284.5	340.6	359.0
77.5°	130.6	180.3	259.6	316.5	337.4
80°	99.4	153.1	236.4	294.9	314.9
82.5°	70.5	129.0	214.0	273.3	294.1
85°	45.7	106.6	190.7	252.4	273.3
87.5°	22.4	87.3	172.3	233.2	254.0
90°	0.8	72.1	154.7	214.8	235.6
92.5°	0.0	57.7	137.0	194.7	217.2
95°	0.0	46.5	121.0	176.3	196.3
97.5°	0.0	38.5	107.4	161.1	180.3
100°	0.0	31.3	95.4	145.8	164.3
102.5°	0.0	26.4	84.1	132.2	149.9
105°	0.0	22.4	74.5	119.4	136.2
107.5°	0.0	20.0	66.5	108.2	123.4
110°	0.0	17.6	59.3	97.8	112.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	15.2	52.9	88.1	101.8
115°	0.0	12.8	48.1	79.3	92.2
117.5°	0.0	11.2	43.3	71.3	83.3
120°	0.0	9.6	38.5	64.9	75.3
122.5°	0.0	8.0	34.5	58.5	68.1
125°	0.0	7.2	30.5	52.1	60.9
127.5°	0.0	5.6	27.2	46.5	55.3
130°	0.0	4.8	23.2	41.7	48.9
132.5°	0.0	3.2	20.0	36.9	43.3
135°	0.0	2.4	16.8	32.1	37.7
137.5°	0.0	1.6	14.4	28.0	32.9
140°	0.0	1.6	11.2	24.0	28.0
142.5°	0.0	0.8	8.8	20.0	24.0
145°	0.0	0.8	7.2	16.0	20.0
147.5°	0.8	0.0	4.8	12.8	16.0
150°	0.8	0.0	4.0	9.6	12.8
152.5°	0.8	0.0	2.4	7.2	9.6
155°	0.8	0.0	1.6	4.8	6.4
157.5°	0.8	0.8	0.8	2.4	4.0
160°	0.8	0.0	0.0	1.6	2.4
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)