

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: P236272

Luminaire Tested: **4SWLED-36SL-LW-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236272
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-36SL-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

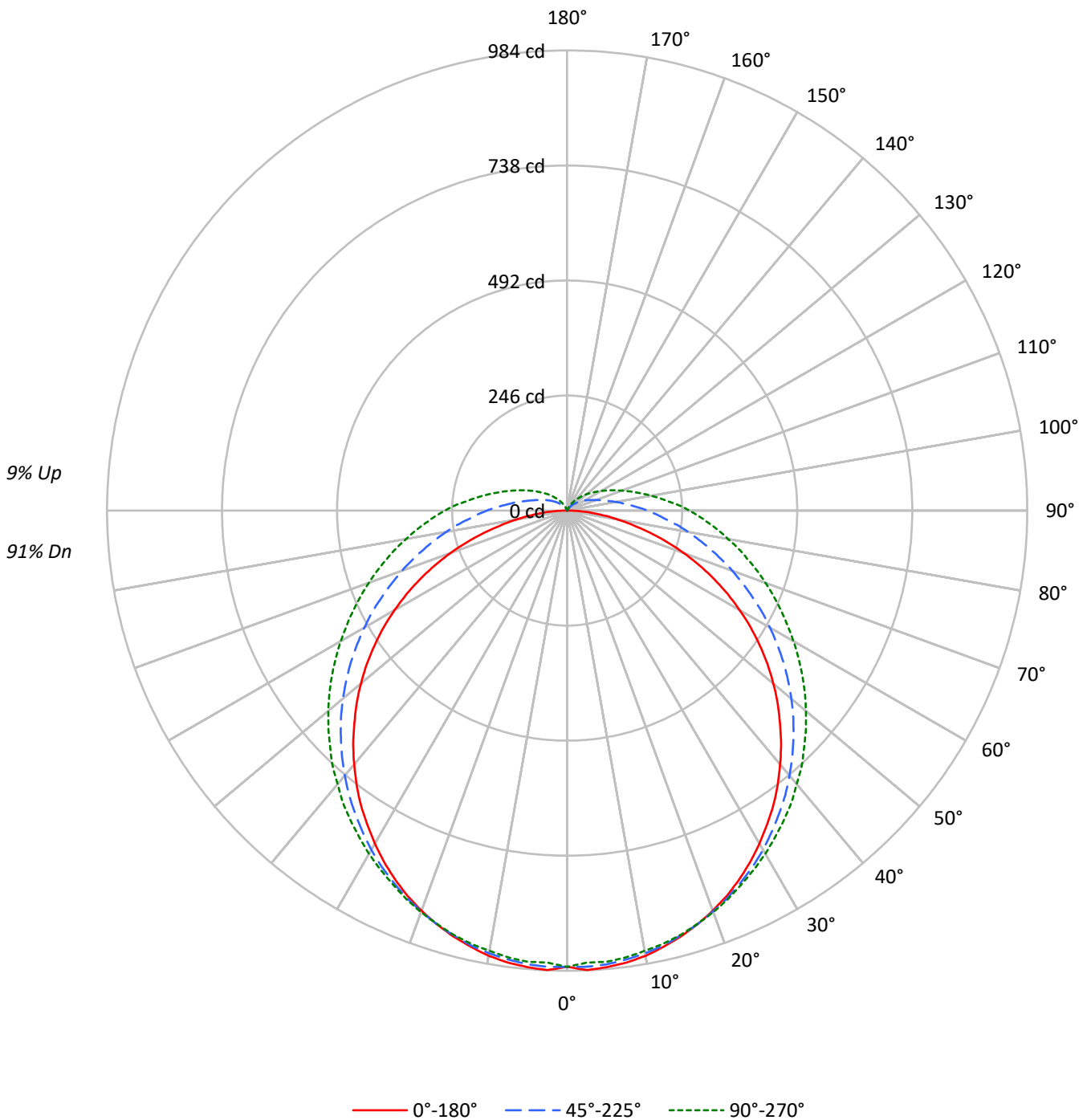
Lumens per Lamp: N/A
Luminaire Lumens: 3573.1 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 32.8
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°	7000	7000	7000
5°	7036	6834	6746
10°	6998	6651	6518
15°	6934	6462	6318
20°	6862	6279	6114
25°	6776	6094	5911
30°	6674	5913	5733
35°	6569	5719	5564
40°	6440	5532	5393
45°	6301	5340	5235
50°	6160	5142	5085
55°	5980	4939	4940
60°	5755	4728	4793
65°	5452	4511	4672
70°	5058	4315	4577
75°	4473	4128	4509
80°	3781	4011	4510
85°	2947	3930	4589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	2.6
10°-20°	264.7	7.4
20°-30°	403.1	11.3
30°-40°	492.4	13.8
40°-50°	525.5	14.7
50°-60°	501.4	14.0
60°-70°	427.7	12.0
70°-80°	323.1	9.0
80°-90°	216.8	6.1
90°-100°	136.0	3.8
100°-110°	84.7	2.4
110°-120°	51.9	1.5
120°-130°	30.3	0.8
130°-140°	15.4	0.4
140°-150°	6.1	0.2
150°-160°	1.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	760.2	21.3
0°-40°	1252.5	35.1
0°-60°	2279.5	63.8
0°-90°	3247.1	90.9
90°-120°	272.6	7.6
90°-150°	324.5	9.1
90°-180°	326.0	9.1
0°-180°	3573.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	980	969	974	969	968	93
15°	942	933	940	938	939	266
25°	870	864	878	878	882	401
35°	769	768	790	798	808	481
45°	644	654	684	704	716	497
55°	503	522	564	596	614	449
65°	346	378	437	484	505	343
75°	183	235	316	378	399	195
85°	51	118	212	280	304	53
90°	1	80	172	238	262	4
95°	0	52	134	196	218	0
105°	0	25	83	133	151	0
115°	0	14	53	88	102	0
125°	0	8	34	58	68	0
135°	0	3	19	36	42	0
145°	0	1	8	18	22	0
155°	1	0	2	5	7	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°	975.5	975.5	975.5	975.5	975.5
2.5°	983.5	971.9	976.3	972.8	967.4
5°	979.9	969.2	973.7	969.2	968.3
7.5°	974.6	963.9	968.3	964.8	963.9
10°	966.6	955.0	961.2	956.8	955.9
12.5°	955.0	945.2	952.3	947.9	948.8
15°	942.5	932.7	939.9	938.1	939.0
17.5°	927.4	918.5	927.4	925.6	926.5
20°	910.5	902.5	912.3	911.4	914.0
22.5°	891.8	883.8	896.2	894.5	898.9
25°	870.4	864.2	877.6	878.4	882.0
27.5°	847.3	842.8	858.9	859.8	865.1
30°	822.4	818.8	837.5	841.1	847.3
32.5°	795.7	794.8	814.4	820.6	827.7
35°	769.0	768.1	790.3	798.3	808.1
37.5°	739.6	741.4	766.3	777.0	787.7
40°	708.5	711.1	739.6	753.0	763.6
42.5°	677.3	684.4	712.9	729.8	742.3
45°	643.5	654.2	684.4	704.0	716.5
47.5°	610.6	623.0	655.9	678.2	692.4
50°	575.8	590.1	625.7	651.5	666.6
52.5°	540.2	556.3	595.4	624.8	640.8
55°	502.9	522.4	564.3	596.3	614.1
57.5°	465.5	487.7	532.2	569.6	586.5
60°	426.3	451.2	501.1	540.2	558.9
62.5°	387.2	415.6	469.9	513.5	531.3
65°	346.2	378.3	437.0	484.2	504.6
67.5°	306.2	342.7	405.8	456.6	477.9
70°	265.2	305.3	375.6	429.9	451.2
72.5°	224.3	269.7	345.3	404.1	425.4
75°	183.3	235.0	316.0	378.3	398.7
77.5°	145.1	200.3	288.4	351.6	374.7
80°	110.4	170.0	262.6	327.5	349.8
82.5°	78.3	143.3	237.6	303.5	326.6
85°	50.7	118.4	211.8	280.4	303.5
87.5°	24.9	97.0	191.4	259.0	282.1
90°	0.9	80.1	171.8	238.5	261.7
92.5°	0.0	64.1	152.2	216.3	241.2
95°	0.0	51.6	134.4	195.8	218.1
97.5°	0.0	42.7	119.3	178.9	200.3
100°	0.0	34.7	105.9	162.0	182.5
102.5°	0.0	29.4	93.5	146.9	166.4
105°	0.0	24.9	82.8	132.6	151.3
107.5°	0.0	22.3	73.9	120.2	137.1
110°	0.0	19.6	65.9	108.6	124.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	16.9	58.7	97.9	113.0
115°	0.0	14.2	53.4	88.1	102.4
117.5°	0.0	12.5	48.1	79.2	92.6
120°	0.0	10.7	42.7	72.1	83.7
122.5°	0.0	8.9	38.3	65.0	75.7
125°	0.0	8.0	33.8	57.9	67.6
127.5°	0.0	6.2	30.3	51.6	61.4
130°	0.0	5.3	25.8	46.3	54.3
132.5°	0.0	3.6	22.3	40.9	48.1
135°	0.0	2.7	18.7	35.6	41.8
137.5°	0.0	1.8	16.0	31.2	36.5
140°	0.0	1.8	12.5	26.7	31.2
142.5°	0.0	0.9	9.8	22.3	26.7
145°	0.0	0.9	8.0	17.8	22.3
147.5°	0.9	0.0	5.3	14.2	17.8
150°	0.9	0.0	4.5	10.7	14.2
152.5°	0.9	0.0	2.7	8.0	10.7
155°	0.9	0.0	1.8	5.3	7.1
157.5°	0.9	0.9	0.9	2.7	4.5
160°	0.9	0.0	0.0	1.8	2.7
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)