

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: P236236

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-16)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-36SL-LC-UNV-L840-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 1 ROW LED, CLEAR LENS
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

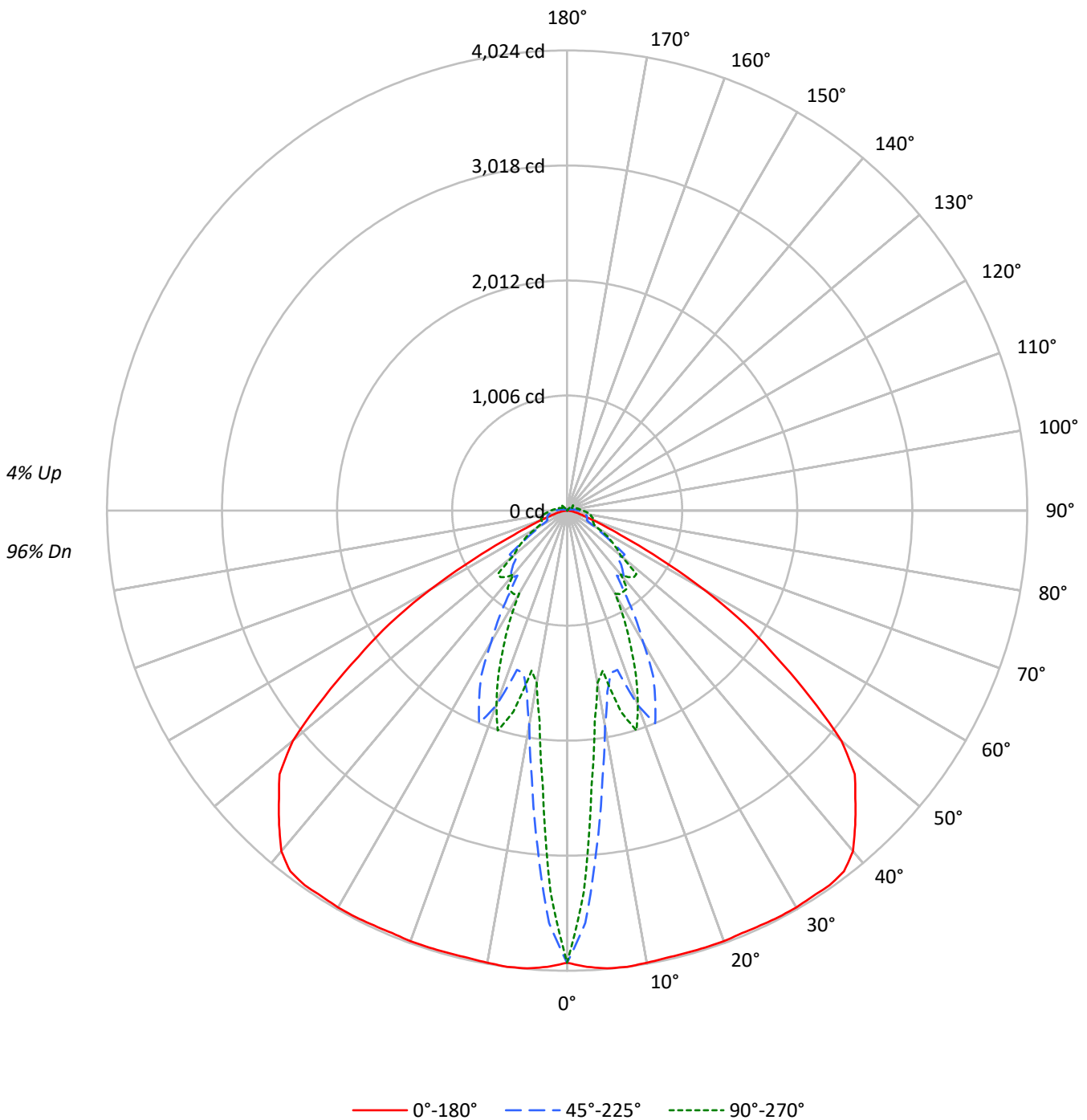
Lumens per Lamp: N/A
Luminaire Lumens: 4832.0 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.54 / 0.24 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96				
1	109	105	101	97	106	102	99	95	97	94	92	93	90	88	89	87	85	83				
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	72				
3	93	83	76	70	90	82	75	69	78	72	68	75	70	66	72	68	65	62				
4	86	75	67	61	83	73	66	61	71	64	59	68	63	58	65	61	57	55				
5	80	68	60	54	77	67	59	53	64	58	52	62	56	52	60	55	51	49				
6	74	62	54	48	72	61	53	47	59	52	47	57	51	46	55	50	45	44				
7	69	57	49	43	67	56	48	43	54	47	42	52	46	42	51	45	41	39				
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	36				
9	61	48	41	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32				
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28376	28376	28376
5°	28854	20797	16916
10°	29068	13213	10424
15°	29466	10112	12248
20°	30197	12494	12089
25°	31160	12641	8838
30°	32523	9379	5672
35°	34166	6290	5937
40°	35344	5771	5159
45°	34902	5193	6021
50°	33500	5155	4663
55°	26496	4073	3850
60°	18679	2477	2709
65°	8717	1965	2381
70°	4379	2126	2410
75°	2670	2302	2556
80°	1736	2392	2707
85°	878	2477	2624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.3	5.6
10°-20°	592.1	12.3
20°-30°	845.3	17.5
30°-40°	902.8	18.7
40°-50°	839.7	17.4
50°-60°	617.4	12.8
60°-70°	274.6	5.7
70°-80°	180.9	3.7
80°-90°	125.3	2.6
90°-100°	73.9	1.5
100°-110°	42.8	0.9
110°-120°	26.1	0.5
120°-130°	18.7	0.4
130°-140°	15.8	0.3
140°-150°	4.6	0.1
150°-160°	1.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1707.8	35.3
0°-40°	2610.6	54.0
0°-60°	4067.7	84.2
0°-90°	4648.5	96.2
90°-120°	142.8	3.0
90°-150°	182.0	3.8
90°-180°	183.0	3.8
0°-180°	4832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3954	3954	3954	3954	3954	
5°	4018	3584	2963	2578	2428	383
15°	4005	2171	1471	1625	1820	1136
25°	4002	1400	1820	1433	1319	1853
35°	4000	1686	869	883	862	2500
45°	3565	724	666	739	824	2745
55°	2228	432	465	471	479	2005
65°	554	167	190	241	257	644
75°	109	108	176	233	226	127
85°	15	63	134	167	174	20
90°	0	47	103	132	140	1
95°	0	34	76	99	115	0
105°	0	19	43	59	79	0
115°	1	11	27	40	52	1
125°	1	4	16	32	53	1
135°	1	2	14	44	53	1
145°	2	2	6	12	12	1
155°	2	2	3	4	4	1
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°	3954.3	3954.3	3954.3	3954.3	3954.3
2.5°	3994.3	3820.8	3609.1	3422.2	3342.1
5°	4018.4	3584.1	2963.1	2577.8	2428.3
7.5°	4023.7	3252.2	2362.4	1938.0	1849.9
10°	4014.8	2862.5	1909.5	1575.8	1528.7
12.5°	4005.9	2500.4	1621.2	1455.7	1433.5
15°	4005.0	2171.1	1470.9	1624.8	1820.5
17.5°	4006.8	1852.6	1460.2	2021.6	2017.2
20°	4006.8	1618.6	1815.2	1930.0	1807.2
22.5°	3998.8	1453.1	2012.7	1712.0	1576.7
25°	4002.4	1399.7	1820.5	1432.6	1318.7
27.5°	4006.8	1471.7	1628.3	1198.6	1086.5
30°	4007.7	1675.5	1328.5	969.9	838.2
32.5°	3997.9	1780.5	1105.1	772.4	865.8
35°	3999.7	1686.2	869.3	882.7	862.2
37.5°	3977.4	1470.9	715.4	819.5	859.6
40°	3888.5	1185.2	771.5	768.8	730.5
42.5°	3728.3	920.1	721.6	700.3	789.3
45°	3564.6	724.3	665.6	739.4	824.0
47.5°	3411.5	583.7	591.7	811.5	822.2
50°	3131.2	548.1	627.3	686.9	611.3
52.5°	2678.3	499.2	632.7	537.4	547.2
55°	2228.1	431.6	465.4	470.7	478.7
57.5°	1842.8	408.4	351.5	425.3	413.8
60°	1383.7	355.9	262.5	334.6	315.9
62.5°	914.7	224.2	202.0	258.9	261.6
65°	553.5	167.3	190.4	241.1	257.2
67.5°	348.8	147.7	187.7	243.8	240.2
70°	229.6	133.5	185.1	243.8	237.6
72.5°	154.8	121.0	181.5	241.1	242.0
75°	109.4	107.7	176.2	233.1	226.0
77.5°	76.5	96.1	169.1	218.0	211.8
80°	50.7	84.5	156.6	202.0	210.0
82.5°	30.3	73.0	145.9	185.1	193.1
85°	15.1	63.2	133.5	167.3	173.5
87.5°	6.2	55.2	118.3	148.6	153.9
90°	0.0	47.2	103.2	131.7	139.7
92.5°	0.0	40.0	89.0	114.8	127.2
95°	0.0	33.8	75.6	98.8	114.8
97.5°	0.0	29.4	65.0	86.3	104.1
100°	0.0	24.9	56.1	74.7	95.2
102.5°	0.0	22.2	48.0	65.8	87.2
105°	0.0	18.7	42.7	58.7	79.2
107.5°	0.0	16.0	37.4	52.5	71.2
110°	0.0	14.2	32.9	48.0	64.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	12.5	30.3	43.6	56.9
115°	0.9	10.7	26.7	40.0	51.6
117.5°	0.9	8.9	24.0	36.5	48.0
120°	0.9	7.1	21.4	33.8	47.2
122.5°	0.9	5.3	18.7	32.0	48.9
125°	0.9	4.4	16.0	32.0	53.4
127.5°	0.9	3.6	13.3	35.6	61.4
130°	0.9	2.7	13.3	42.7	69.4
132.5°	0.9	1.8	13.3	47.2	66.7
135°	0.9	1.8	14.2	43.6	53.4
137.5°	0.9	1.8	14.2	33.8	38.3
140°	0.9	1.8	11.6	24.0	26.7
142.5°	0.9	1.8	8.0	16.9	17.8
145°	1.8	1.8	6.2	11.6	11.6
147.5°	1.8	1.8	4.4	8.0	8.0
150°	1.8	1.8	3.6	6.2	6.2
152.5°	1.8	1.8	2.7	5.3	4.4
155°	1.8	1.8	2.7	4.4	3.6
157.5°	1.8	1.8	1.8	3.6	2.7
160°	1.8	2.7	2.7	3.6	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)