

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: P236253

Luminaire Tested: **4SWLED-36SL-LN-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-17)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-36SL-LN-UNV-L835-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 1 ROW LED, NARROW LENS
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

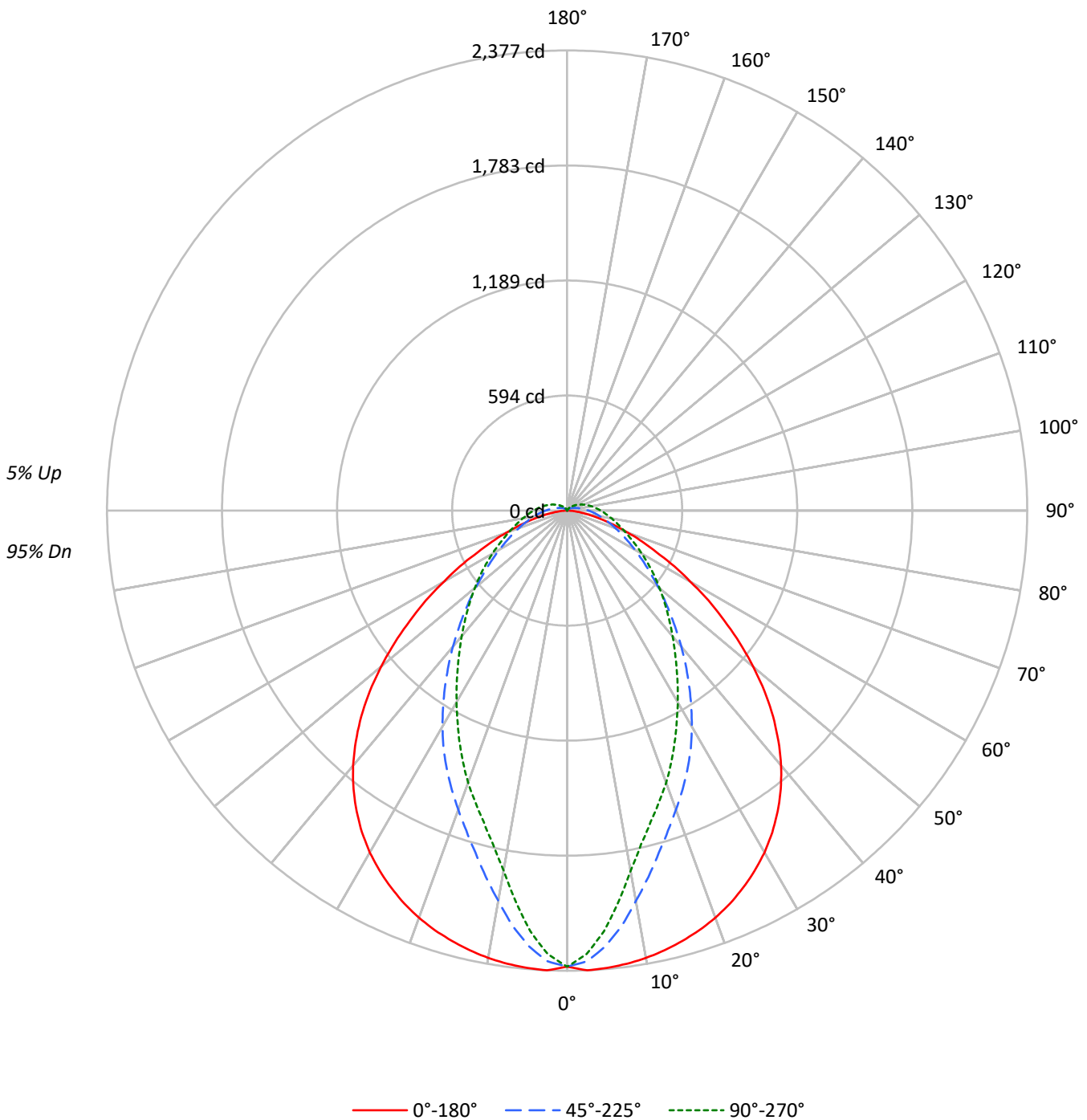
Lumens per Lamp: N/A
Luminaire Lumens: 4419.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 0.78 / 1
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

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	108	108	108	103	103	103	98	98	98	95				
1	108	103	99	95	105	101	97	93	95	92	90	91	88	86	86	84	83	80				
2	99	91	85	79	96	89	83	78	85	80	75	81	77	73	77	74	71	68				
3	91	81	73	67	88	79	72	66	76	70	65	72	67	63	69	65	61	59				
4	84	73	65	58	81	71	63	58	68	61	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	55	46	41	65	54	46	40	52	45	40	50	44	39	48	43	38	37				
8	63	50	42	37	61	49	42	36	48	41	36	46	40	35	45	39	35	33				
9	59	46	39	33	57	46	38	33	44	37	33	43	37	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	35	30	40	34	30	39	33	29	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16907	16907	16907
5°	17030	15862	15191
10°	16988	14165	12876
15°	16929	12580	11208
20°	16868	11316	10005
25°	16739	10222	8820
30°	16549	9093	7729
35°	16197	7937	6777
40°	15633	6860	5984
45°	14729	5875	5311
50°	13425	5041	4752
55°	11778	4353	4253
60°	9918	3804	3824
65°	8011	3377	3465
70°	6373	3057	3212
75°	4813	2793	3059
80°	3466	2651	3004
85°	2127	2590	3021



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.9	4.8
10°-20°	533.8	12.1
20°-30°	723.7	16.4
30°-40°	768.7	17.4
40°-50°	687.4	15.6
50°-60°	532.6	12.1
60°-70°	368.1	8.3
70°-80°	235.3	5.3
80°-90°	144.1	3.3
90°-100°	89.6	2.0
100°-110°	56.2	1.3
110°-120°	34.5	0.8
120°-130°	19.6	0.4
130°-140°	10.0	0.2
140°-150°	4.2	0.1
150°-160°	1.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1467.4	33.2
0°-40°	2236.1	50.6
0°-60°	3456.1	78.2
0°-90°	4203.6	95.1
90°-120°	180.3	4.1
90°-150°	214.0	4.8
90°-180°	215.0	4.9
0°-180°	4419.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2356	2356	2356	2356	2356	
5°	2372	2314	2260	2199	2181	226
15°	2301	2075	1830	1696	1666	650
25°	2150	1748	1472	1348	1316	991
35°	1896	1383	1097	1001	984	1184
45°	1504	969	753	722	727	1155
55°	990	597	497	516	529	887
65°	509	339	327	363	374	515
75°	197	171	214	260	270	217
85°	37	77	140	186	200	44
90°	1	50	111	158	174	3
95°	0	31	86	133	149	0
105°	0	14	52	91	107	0
115°	0	8	32	60	73	0
125°	0	4	20	38	46	0
135°	1	2	12	23	27	1
145°	1	1	5	12	14	1
155°	2	1	2	4	5	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°	2356.0	2356.0	2356.0	2356.0	2356.0
2.5°	2376.9	2338.5	2330.7	2308.0	2293.2
5°	2371.7	2314.1	2260.0	2198.9	2180.6
7.5°	2361.2	2272.2	2163.1	2060.2	2036.6
10°	2346.4	2215.5	2047.1	1920.6	1888.3
12.5°	2326.3	2149.2	1938.0	1798.4	1766.1
15°	2301.0	2075.0	1829.8	1696.3	1665.8
17.5°	2273.1	1999.1	1733.0	1605.6	1578.5
20°	2238.2	1914.5	1644.0	1518.3	1495.6
22.5°	2198.0	1834.2	1558.4	1431.9	1405.7
25°	2150.1	1747.8	1472.1	1348.1	1315.9
27.5°	2097.7	1660.5	1383.0	1257.4	1226.9
30°	2039.2	1572.4	1287.9	1165.8	1142.2
32.5°	1972.0	1479.9	1192.0	1081.1	1061.1
35°	1896.1	1383.0	1096.8	1000.9	984.3
37.5°	1813.2	1281.8	1005.2	923.2	912.7
40°	1719.9	1178.0	917.1	851.6	847.3
42.5°	1616.0	1074.2	831.6	785.3	785.3
45°	1504.3	969.4	753.0	721.6	726.9
47.5°	1383.0	865.6	680.6	664.9	673.6
50°	1254.8	768.7	613.4	611.7	623.0
52.5°	1123.9	678.9	551.5	561.9	575.0
55°	990.4	596.8	497.4	515.7	528.8
57.5°	865.6	521.8	448.5	473.8	486.0
60°	734.7	454.6	403.1	433.7	445.9
62.5°	624.8	392.7	364.7	396.2	408.4
65°	508.7	338.6	327.2	363.0	374.3
67.5°	419.7	289.7	294.9	333.3	343.8
70°	334.2	245.2	266.1	306.3	316.7
72.5°	264.4	204.2	240.0	281.8	292.3
75°	197.2	171.0	213.8	260.0	270.5
77.5°	144.0	142.2	192.8	240.0	251.3
80°	101.2	116.1	173.6	219.9	233.0
82.5°	65.4	94.2	156.2	201.6	214.7
85°	36.6	76.8	139.6	185.9	199.8
87.5°	17.5	62.0	124.8	171.9	186.7
90°	0.9	49.7	110.8	157.9	173.6
92.5°	0.0	39.3	98.6	144.8	161.4
95°	0.0	31.4	86.4	132.6	149.2
97.5°	0.0	25.3	75.9	121.3	137.9
100°	0.0	20.1	67.2	109.9	127.4
102.5°	0.0	16.6	58.5	100.3	117.8
105°	0.0	14.0	51.5	90.7	107.3
107.5°	0.0	12.2	45.4	82.0	98.6
110°	0.0	10.5	41.0	74.2	89.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	9.6	35.8	67.2	82.0
115°	0.0	7.9	32.3	60.2	73.3
117.5°	0.0	7.0	28.8	54.1	66.3
120°	0.0	6.1	25.3	48.9	59.3
122.5°	0.0	5.2	22.7	42.8	52.4
125°	0.0	4.4	20.1	38.4	46.2
127.5°	0.9	3.5	18.3	34.0	40.1
130°	0.9	2.6	15.7	29.7	35.8
132.5°	0.9	2.6	14.0	26.2	30.5
135°	0.9	1.7	12.2	22.7	27.1
137.5°	0.9	1.7	10.5	20.1	22.7
140°	0.9	0.9	8.7	16.6	20.1
142.5°	0.9	0.9	7.0	14.0	16.6
145°	0.9	0.9	5.2	12.2	14.0
147.5°	0.9	0.9	4.4	9.6	11.3
150°	0.9	0.9	3.5	7.9	8.7
152.5°	0.9	0.9	2.6	6.1	7.0
155°	1.7	0.9	1.7	4.4	5.2
157.5°	1.7	1.7	1.7	3.5	3.5
160°	1.7	1.7	1.7	1.7	2.6
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)