

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: P236364

Luminaire Tested: **4SWLED-80HL-LW-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-27)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-80HL-LW-UNV-L835-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 2 ROW LED, WIDE LENS
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

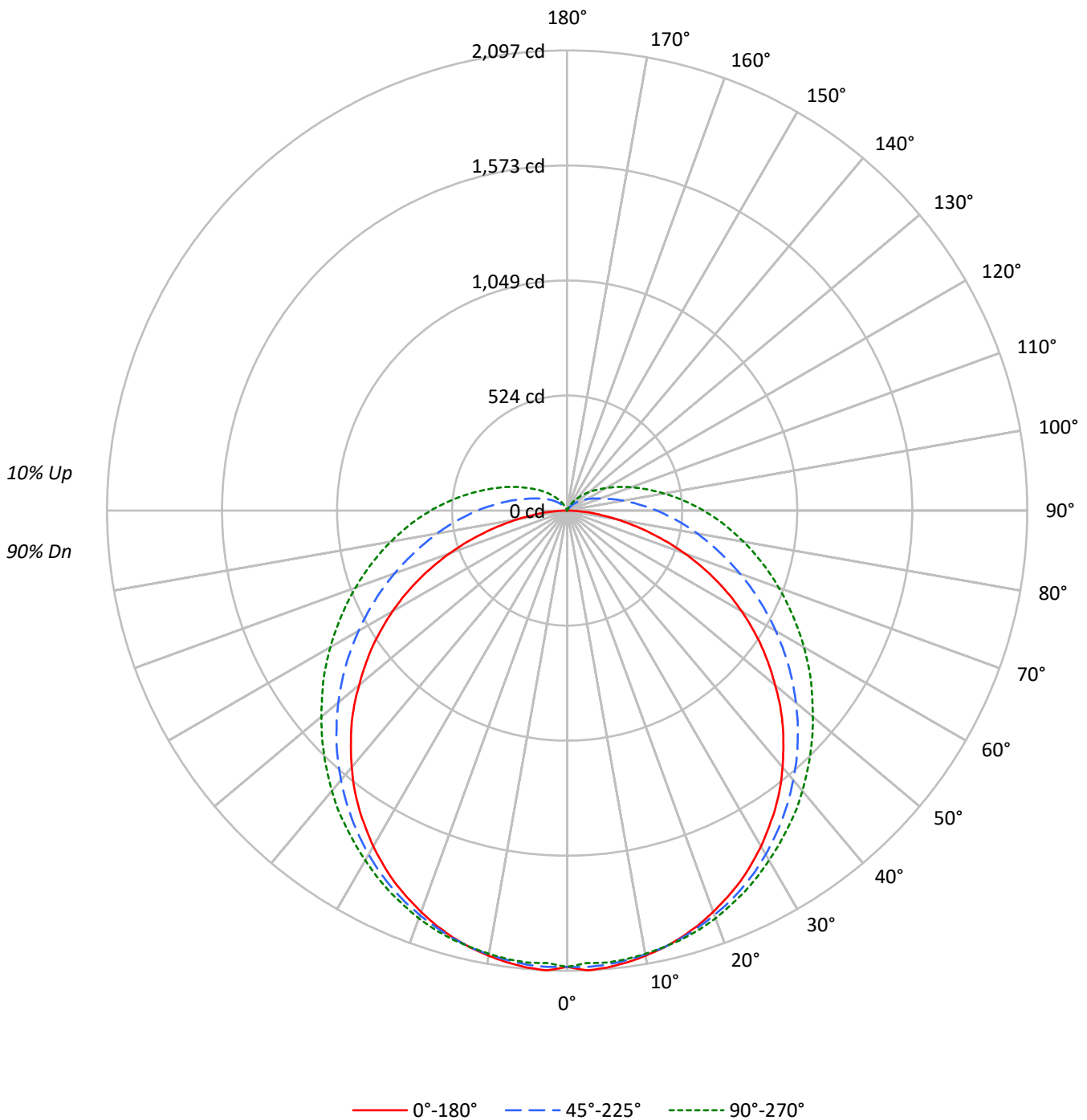
Lumens per Lamp: N/A
Luminaire Lumens: 7902.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 82.4
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90				
1	104	98	93	88	100	95	90	86	89	85	82	83	80	77	78	75	73	70				
2	94	84	77	70	90	82	75	69	76	71	66	72	67	63	67	63	60	57				
3	85	73	65	57	82	71	63	56	67	60	54	62	57	52	59	54	50	47				
4	78	65	55	48	74	63	54	47	59	51	45	55	49	44	52	47	42	40				
5	71	58	48	41	68	56	47	40	52	45	39	49	43	38	47	41	36	34				
6	65	52	42	36	63	50	41	35	47	40	34	45	38	33	42	36	32	29				
7	61	47	38	31	58	45	37	31	43	35	30	41	34	29	38	32	28	26				
8	56	42	34	28	54	41	33	27	39	32	27	37	31	26	35	29	25	23				
9	53	39	30	25	51	38	30	24	36	29	24	34	28	23	32	27	22	21				
10	49	36	28	22	47	35	27	22	33	26	21	32	25	21	30	24	20	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14923	14923	14923
5°	15010	14582	14405
10°	14915	14214	13987
15°	14809	13866	13609
20°	14668	13504	13229
25°	14527	13154	12841
30°	14338	12779	12454
35°	14138	12388	12104
40°	13876	11991	11779
45°	13613	11597	11456
50°	13239	11184	11152
55°	12883	10778	10915
60°	12415	10362	10687
65°	11766	9969	10503
70°	10846	9607	10413
75°	9572	9324	10402
80°	7890	9194	10517
85°	5812	9277	10837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	2.5
10°-20°	568.3	7.2
20°-30°	869.8	11.0
30°-40°	1066.2	13.5
40°-50°	1141.1	14.4
50°-60°	1094.6	13.9
60°-70°	944.0	11.9
70°-80°	727.3	9.2
80°-90°	504.2	6.4
90°-100°	328.3	4.2
100°-110°	208.7	2.6
110°-120°	127.3	1.6
120°-130°	72.9	0.9
130°-140°	35.9	0.5
140°-150°	13.5	0.2
150°-160°	2.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1635.3	20.7
0°-40°	2701.5	34.2
0°-60°	4937.2	62.5
0°-90°	7112.8	90.0
90°-120°	664.3	8.4
90°-150°	786.6	10.0
90°-180°	789.0	10.0
0°-180°	7902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2080	2080	2080	2080	2080	
5°	2090	2071	2078	2068	2068	198
15°	2013	1999	2017	2019	2023	568
25°	1866	1858	1894	1903	1916	859
35°	1655	1657	1712	1737	1758	1035
45°	1390	1411	1486	1537	1568	1071
55°	1083	1130	1232	1315	1357	967
65°	747	820	966	1082	1134	738
75°	392	515	714	862	920	417
85°	100	273	500	658	717	108
90°	2	185	409	565	622	7
95°	0	124	326	476	530	0
105°	0	62	203	328	374	0
115°	0	34	129	217	254	0
125°	1	17	80	141	166	1
135°	1	4	43	84	100	1
145°	1	1	17	40	50	1
155°	1	1	1	10	15	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°	2079.6	2079.6	2079.6	2079.6	2079.6
2.5°	2097.2	2076.7	2081.6	2073.7	2063.9
5°	2090.4	2070.8	2077.6	2067.8	2067.8
7.5°	2077.6	2060.0	2066.9	2061.0	2061.9
10°	2060.0	2042.3	2054.1	2049.2	2051.2
12.5°	2039.4	2021.7	2038.4	2034.5	2037.4
15°	2012.9	1999.2	2016.8	2018.8	2022.7
17.5°	1982.5	1970.8	1990.4	1996.3	2002.1
20°	1946.3	1937.4	1961.9	1967.8	1977.6
22.5°	1907.0	1899.2	1930.6	1935.5	1946.3
25°	1865.9	1858.0	1894.3	1903.1	1915.9
27.5°	1817.8	1814.9	1854.1	1866.8	1879.6
30°	1766.8	1764.9	1810.0	1824.7	1840.4
32.5°	1710.9	1712.9	1761.9	1781.5	1800.2
35°	1655.1	1657.0	1711.9	1737.4	1758.0
37.5°	1594.3	1600.1	1659.0	1689.4	1715.8
40°	1526.6	1540.3	1603.1	1640.3	1667.8
42.5°	1459.0	1477.6	1546.2	1589.4	1617.8
45°	1390.3	1410.9	1486.4	1537.4	1567.8
47.5°	1316.8	1343.3	1424.6	1482.5	1515.8
50°	1237.4	1273.6	1360.9	1428.6	1461.9
52.5°	1160.9	1202.1	1296.2	1372.7	1408.0
55°	1083.4	1129.5	1231.5	1314.8	1357.0
57.5°	1002.1	1052.1	1164.8	1256.0	1302.1
60°	919.7	976.6	1098.1	1199.1	1246.2
62.5°	834.4	899.1	1031.5	1140.3	1190.3
65°	747.1	819.7	965.8	1082.4	1134.4
67.5°	658.9	741.2	901.1	1027.5	1080.5
70°	568.7	663.8	836.3	971.7	1026.6
72.5°	480.4	588.3	773.6	914.8	972.6
75°	392.2	514.8	713.8	861.8	919.7
77.5°	307.9	445.1	655.0	809.9	867.7
80°	230.4	381.4	602.0	757.9	815.8
82.5°	158.8	324.5	550.0	707.9	764.8
85°	100.0	272.6	500.0	657.9	716.7
87.5°	48.0	226.5	452.0	610.8	668.7
90°	2.0	185.3	408.9	564.8	621.6
92.5°	0.0	152.0	366.7	519.7	575.5
95°	0.0	124.5	326.5	476.5	530.4
97.5°	0.0	103.0	291.2	436.3	488.3
100°	0.0	84.3	259.8	398.1	448.1
102.5°	0.0	71.6	230.4	361.8	409.8
105°	0.0	61.8	203.0	328.5	374.5
107.5°	0.0	52.9	181.4	298.1	341.2
110°	0.0	45.1	161.8	268.7	310.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	39.2	144.1	243.2	281.4
115°	0.0	34.3	129.4	216.7	253.9
117.5°	0.0	28.4	115.7	195.1	228.5
120°	0.0	24.5	103.0	175.5	204.9
122.5°	1.0	20.6	91.2	157.9	184.3
125°	1.0	16.7	80.4	141.2	165.7
127.5°	1.0	12.7	70.6	125.5	148.1
130°	1.0	9.8	60.8	110.8	130.4
132.5°	1.0	6.9	52.0	97.1	115.7
135°	1.0	3.9	43.1	84.3	100.0
137.5°	1.0	2.0	35.3	71.6	86.3
140°	1.0	1.0	28.4	60.8	73.5
142.5°	1.0	0.0	21.6	51.0	60.8
145°	1.0	1.0	16.7	40.2	50.0
147.5°	1.0	1.0	11.8	31.4	40.2
150°	1.0	1.0	6.9	22.6	30.4
152.5°	1.0	1.0	2.9	15.7	22.6
155°	1.0	1.0	1.0	9.8	14.7
157.5°	1.0	1.0	0.0	3.9	7.8
160°	2.0	1.0	0.0	0.0	2.0
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)