

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: P236360

Luminaire Tested: **4SWLED-72HL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236360
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-72HL-LW-UNV-L850-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 2 ROW LED, WIDE LENS
Light Source: (224) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

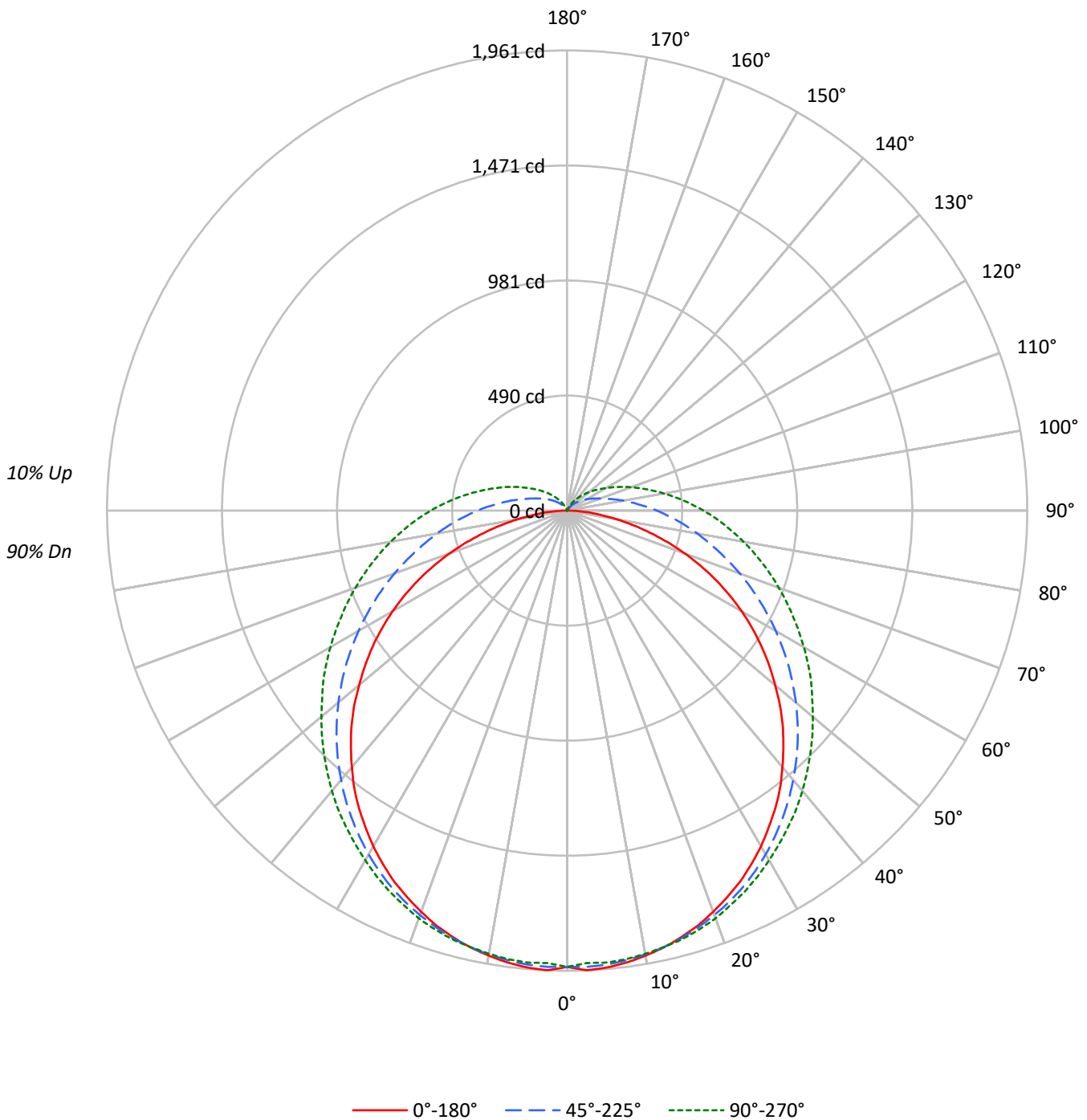
Lumens per Lamp: N/A
Luminaire Lumens: 7388.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 71.5
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		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°	13952	13952	13952
5°	14033	13634	13468
10°	13944	13289	13077
15°	13846	12964	12724
20°	13714	12625	12369
25°	13582	12298	12005
30°	13406	11947	11644
35°	13218	11582	11317
40°	12973	11211	11013
45°	12728	10842	10710
50°	12378	10457	10426
55°	12046	10077	10205
60°	11608	9688	9991
65°	11000	9321	9820
70°	10140	8982	9736
75°	8949	8718	9726
80°	7376	8597	9833
85°	5434	8674	10133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	2.5
10°-20°	531.3	7.2
20°-30°	813.2	11.0
30°-40°	996.9	13.5
40°-50°	1066.9	14.4
50°-60°	1023.4	13.9
60°-70°	882.6	11.9
70°-80°	680.0	9.2
80°-90°	471.5	6.4
90°-100°	306.9	4.2
100°-110°	195.1	2.6
110°-120°	119.1	1.6
120°-130°	68.1	0.9
130°-140°	33.6	0.5
140°-150°	12.6	0.2
150°-160°	2.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1528.9	20.7
0°-40°	2525.8	34.2
0°-60°	4616.1	62.5
0°-90°	6650.1	90.0
90°-120°	621.1	8.4
90°-150°	735.5	10.0
90°-180°	738.0	10.0
0°-180°	7388.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1954	1936	1942	1933	1933	186
15°	1882	1869	1886	1888	1891	531
25°	1744	1737	1771	1779	1791	803
35°	1547	1549	1601	1624	1644	967
45°	1300	1319	1390	1437	1466	1001
55°	1013	1056	1151	1229	1269	904
65°	698	766	903	1012	1061	690
75°	367	481	667	806	860	389
85°	94	255	468	615	670	101
90°	2	173	382	528	581	7
95°	0	116	305	446	496	0
105°	0	58	190	307	350	0
115°	0	32	121	203	237	0
125°	1	16	75	132	155	1
135°	1	4	40	79	94	1
145°	1	1	16	38	47	1
155°	1	1	1	9	14	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°	1944.3	1944.3	1944.3	1944.3	1944.3
2.5°	1960.8	1941.6	1946.2	1938.8	1929.7
5°	1954.4	1936.1	1942.5	1933.3	1933.3
7.5°	1942.5	1926.0	1932.4	1926.9	1927.8
10°	1926.0	1909.5	1920.5	1915.9	1917.7
12.5°	1906.7	1890.2	1905.8	1902.2	1904.9
15°	1882.0	1869.2	1885.7	1887.5	1891.2
17.5°	1853.6	1842.6	1860.9	1866.4	1871.9
20°	1819.7	1811.4	1834.3	1839.8	1849.0
22.5°	1783.0	1775.7	1805.0	1809.6	1819.7
25°	1744.5	1737.2	1771.1	1779.3	1791.2
27.5°	1699.6	1696.8	1733.5	1745.4	1757.3
30°	1651.9	1650.1	1692.2	1706.0	1720.7
32.5°	1599.6	1601.5	1647.3	1665.6	1683.1
35°	1547.4	1549.2	1600.6	1624.4	1643.6
37.5°	1490.6	1496.1	1551.1	1579.5	1604.2
40°	1427.3	1440.1	1498.8	1533.6	1559.3
42.5°	1364.1	1381.5	1445.6	1486.0	1512.6
45°	1299.9	1319.1	1389.7	1437.4	1465.8
47.5°	1231.1	1255.9	1332.0	1386.1	1417.2
50°	1156.9	1190.8	1272.4	1335.6	1366.8
52.5°	1085.4	1123.9	1211.9	1283.4	1316.4
55°	1013.0	1056.0	1151.4	1229.3	1268.7
57.5°	936.9	983.6	1089.0	1174.3	1217.4
60°	859.9	913.0	1026.7	1121.1	1165.1
62.5°	780.1	840.6	964.4	1066.1	1112.9
65°	698.5	766.4	903.0	1012.0	1060.6
67.5°	616.0	693.0	842.4	960.7	1010.2
70°	531.7	620.6	781.9	908.5	959.8
72.5°	449.2	550.0	723.3	855.3	909.4
75°	366.7	481.3	667.4	805.8	859.9
77.5°	287.8	416.2	612.4	757.2	811.3
80°	215.4	356.6	562.9	708.6	762.7
82.5°	148.5	303.4	514.3	661.9	715.0
85°	93.5	254.8	467.5	615.1	670.1
87.5°	44.9	211.8	422.6	571.1	625.2
90°	1.8	173.3	382.3	528.0	581.2
92.5°	0.0	142.1	342.8	485.9	538.1
95°	0.0	116.4	305.3	445.5	495.9
97.5°	0.0	96.3	272.3	407.9	456.5
100°	0.0	78.8	242.9	372.2	418.9
102.5°	0.0	66.9	215.4	338.3	383.2
105°	0.0	57.8	189.8	307.1	350.2
107.5°	0.0	49.5	169.6	278.7	319.0
110°	0.0	42.2	151.3	251.2	290.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	36.7	134.8	227.3	263.1
115°	0.0	32.1	121.0	202.6	237.4
117.5°	0.0	26.6	108.2	182.4	213.6
120°	0.0	22.9	96.3	164.1	191.6
122.5°	0.9	19.3	85.3	147.6	172.3
125°	0.9	15.6	75.2	132.0	154.9
127.5°	0.9	11.9	66.0	117.3	138.4
130°	0.9	9.2	56.8	103.6	121.9
132.5°	0.9	6.4	48.6	90.8	108.2
135°	0.9	3.7	40.3	78.8	93.5
137.5°	0.9	1.8	33.0	66.9	80.7
140°	0.9	0.9	26.6	56.8	68.8
142.5°	0.9	0.0	20.2	47.7	56.8
145°	0.9	0.9	15.6	37.6	46.8
147.5°	0.9	0.9	11.0	29.3	37.6
150°	0.9	0.9	6.4	21.1	28.4
152.5°	0.9	0.9	2.8	14.7	21.1
155°	0.9	0.9	0.9	9.2	13.8
157.5°	0.9	0.9	0.0	3.7	7.3
160°	1.8	0.9	0.0	0.0	1.8
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)