

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: P236355

Luminaire Tested: **4SWLED-67HL-LW-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236355
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-67HL-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

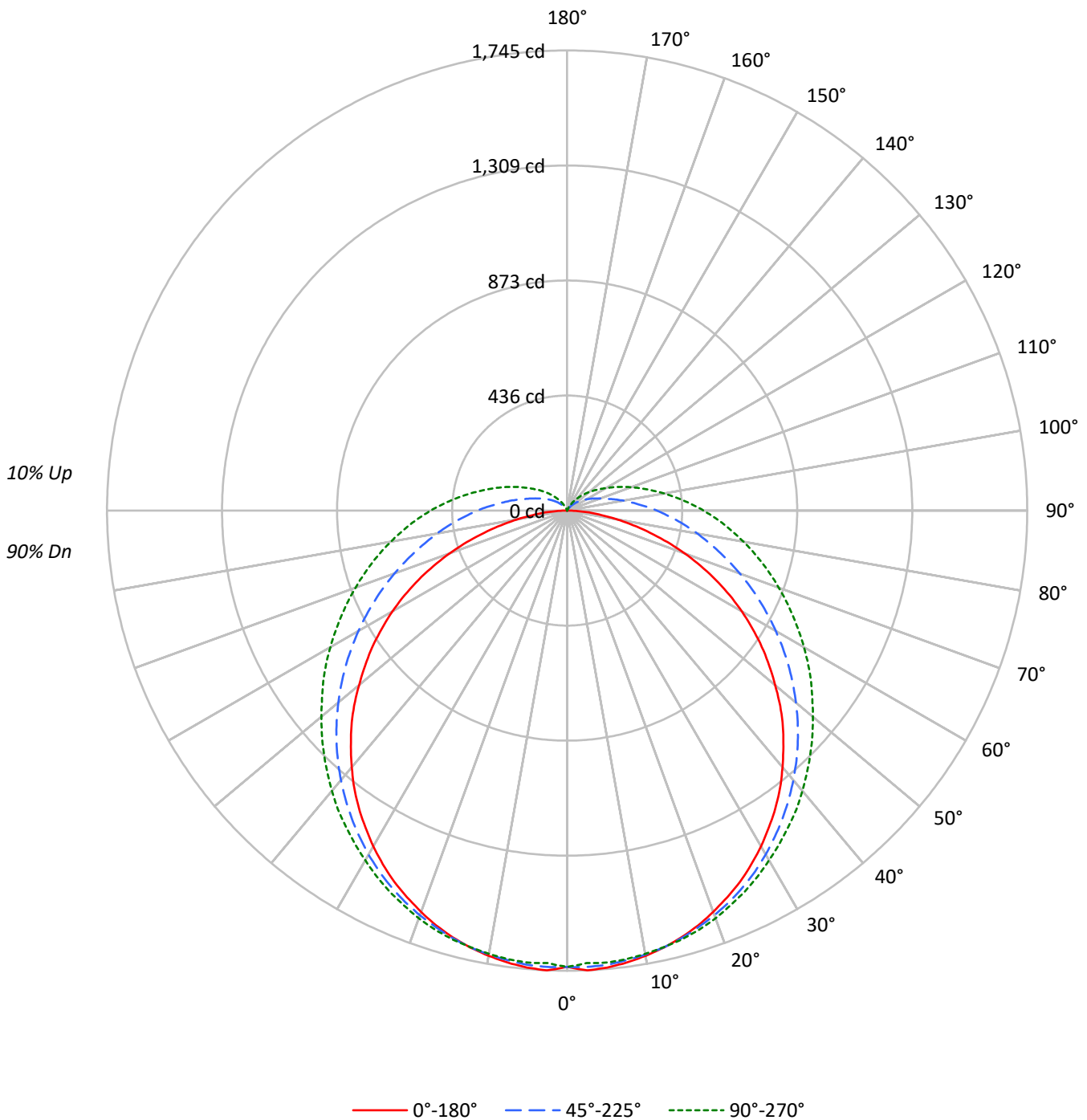
Lumens per Lamp: N/A
Luminaire Lumens: 6576.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 65.7
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°	12419	12419	12419
5°	12491	12135	11988
10°	12412	11828	11640
15°	12324	11539	11325
20°	12207	11238	11010
25°	12089	10946	10686
30°	11932	10634	10363
35°	11765	10309	10073
40°	11547	9979	9802
45°	11329	9651	9533
50°	11017	9307	9281
55°	10722	8969	9084
60°	10332	8624	8894
65°	9792	8296	8741
70°	9026	7996	8665
75°	7966	7759	8657
80°	6565	7652	8752
85°	4835	7720	9020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	2.5
10°-20°	472.9	7.2
20°-30°	723.8	11.0
30°-40°	887.3	13.5
40°-50°	949.7	14.4
50°-60°	910.9	13.9
60°-70°	785.6	11.9
70°-80°	605.2	9.2
80°-90°	419.6	6.4
90°-100°	273.2	4.2
100°-110°	173.6	2.6
110°-120°	106.0	1.6
120°-130°	60.6	0.9
130°-140°	29.9	0.5
140°-150°	11.3	0.2
150°-160°	2.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1360.8	20.7
0°-40°	2248.2	34.2
0°-60°	4108.7	62.5
0°-90°	5919.2	90.0
90°-120°	552.8	8.4
90°-150°	654.6	10.0
90°-180°	657.0	10.0
0°-180°	6576.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1731	1731	1731	1731	1731	
5°	1740	1723	1729	1721	1721	165
15°	1675	1664	1678	1680	1683	473
25°	1553	1546	1576	1584	1594	715
35°	1377	1379	1425	1446	1463	861
45°	1157	1174	1237	1279	1305	891
55°	902	940	1025	1094	1129	805
65°	622	682	804	901	944	615
75°	326	428	594	717	765	347
85°	83	227	416	548	596	90
90°	2	154	340	470	517	6
95°	0	104	272	397	441	0
105°	0	51	169	273	312	0
115°	0	29	108	180	211	0
125°	1	14	67	118	138	1
135°	1	3	36	70	83	1
145°	1	1	14	34	42	1
155°	1	1	1	8	12	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°	1730.6	1730.6	1730.6	1730.6	1730.6
2.5°	1745.3	1728.2	1732.3	1725.7	1717.6
5°	1739.6	1723.3	1729.0	1720.8	1720.8
7.5°	1729.0	1714.3	1720.0	1715.1	1715.9
10°	1714.3	1699.6	1709.4	1705.3	1707.0
12.5°	1697.2	1682.5	1696.4	1693.1	1695.5
15°	1675.1	1663.7	1678.4	1680.0	1683.3
17.5°	1649.9	1640.1	1656.4	1661.3	1666.2
20°	1619.7	1612.3	1632.7	1637.6	1645.8
22.5°	1587.0	1580.5	1606.6	1610.7	1619.7
25°	1552.8	1546.2	1576.4	1583.8	1594.4
27.5°	1512.8	1510.3	1543.0	1553.6	1564.2
30°	1470.3	1468.7	1506.2	1518.5	1531.5
32.5°	1423.8	1425.5	1466.3	1482.6	1498.1
35°	1377.3	1379.0	1424.6	1445.9	1463.0
37.5°	1326.7	1331.6	1380.6	1405.9	1427.9
40°	1270.4	1281.9	1334.1	1365.1	1387.9
42.5°	1214.1	1229.6	1286.8	1322.7	1346.3
45°	1157.0	1174.2	1237.0	1279.4	1304.7
47.5°	1095.8	1117.9	1185.6	1233.7	1261.5
50°	1029.7	1059.9	1132.5	1188.8	1216.6
52.5°	966.1	1000.4	1078.7	1142.3	1171.7
55°	901.6	940.0	1024.8	1094.2	1129.3
57.5°	833.9	875.5	969.3	1045.2	1083.6
60°	765.4	812.7	913.9	997.9	1037.1
62.5°	694.4	748.2	858.4	948.9	990.6
65°	621.8	682.1	803.7	900.8	944.1
67.5°	548.3	616.9	749.9	855.1	899.2
70°	473.3	552.4	696.0	808.6	854.3
72.5°	399.8	489.6	643.8	761.3	809.4
75°	326.4	428.4	594.0	717.2	765.4
77.5°	256.2	370.4	545.1	674.0	722.1
80°	191.7	317.4	501.0	630.7	678.9
82.5°	132.2	270.1	457.7	589.1	636.4
85°	83.2	226.8	416.1	547.5	596.5
87.5°	40.0	188.5	376.2	508.3	556.5
90°	1.6	154.2	340.3	470.0	517.3
92.5°	0.0	126.5	305.2	432.5	479.0
95°	0.0	103.6	271.7	396.6	441.4
97.5°	0.0	85.7	242.3	363.1	406.3
100°	0.0	70.2	216.2	331.3	372.9
102.5°	0.0	59.6	191.7	301.1	341.1
105°	0.0	51.4	168.9	273.3	311.7
107.5°	0.0	44.1	151.0	248.0	284.0
110°	0.0	37.5	134.6	223.6	258.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	32.6	119.9	202.4	234.2
115°	0.0	28.6	107.7	180.3	211.3
117.5°	0.0	23.7	96.3	162.4	190.1
120°	0.0	20.4	85.7	146.1	170.5
122.5°	0.8	17.1	75.9	131.4	153.4
125°	0.8	13.9	66.9	117.5	137.9
127.5°	0.8	10.6	58.7	104.4	123.2
130°	0.8	8.2	50.6	92.2	108.5
132.5°	0.8	5.7	43.2	80.8	96.3
135°	0.8	3.3	35.9	70.2	83.2
137.5°	0.8	1.6	29.4	59.6	71.8
140°	0.8	0.8	23.7	50.6	61.2
142.5°	0.8	0.0	18.0	42.4	50.6
145°	0.8	0.8	13.9	33.5	41.6
147.5°	0.8	0.8	9.8	26.1	33.5
150°	0.8	0.8	5.7	18.8	25.3
152.5°	0.8	0.8	2.4	13.1	18.8
155°	0.8	0.8	0.8	8.2	12.2
157.5°	0.8	0.8	0.0	3.3	6.5
160°	1.6	0.8	0.0	0.0	1.6
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)