

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: P236356

Luminaire Tested: **4SWLED-67HL-LW-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236356
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-L840-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 2 ROW LED, WIDE LENS
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

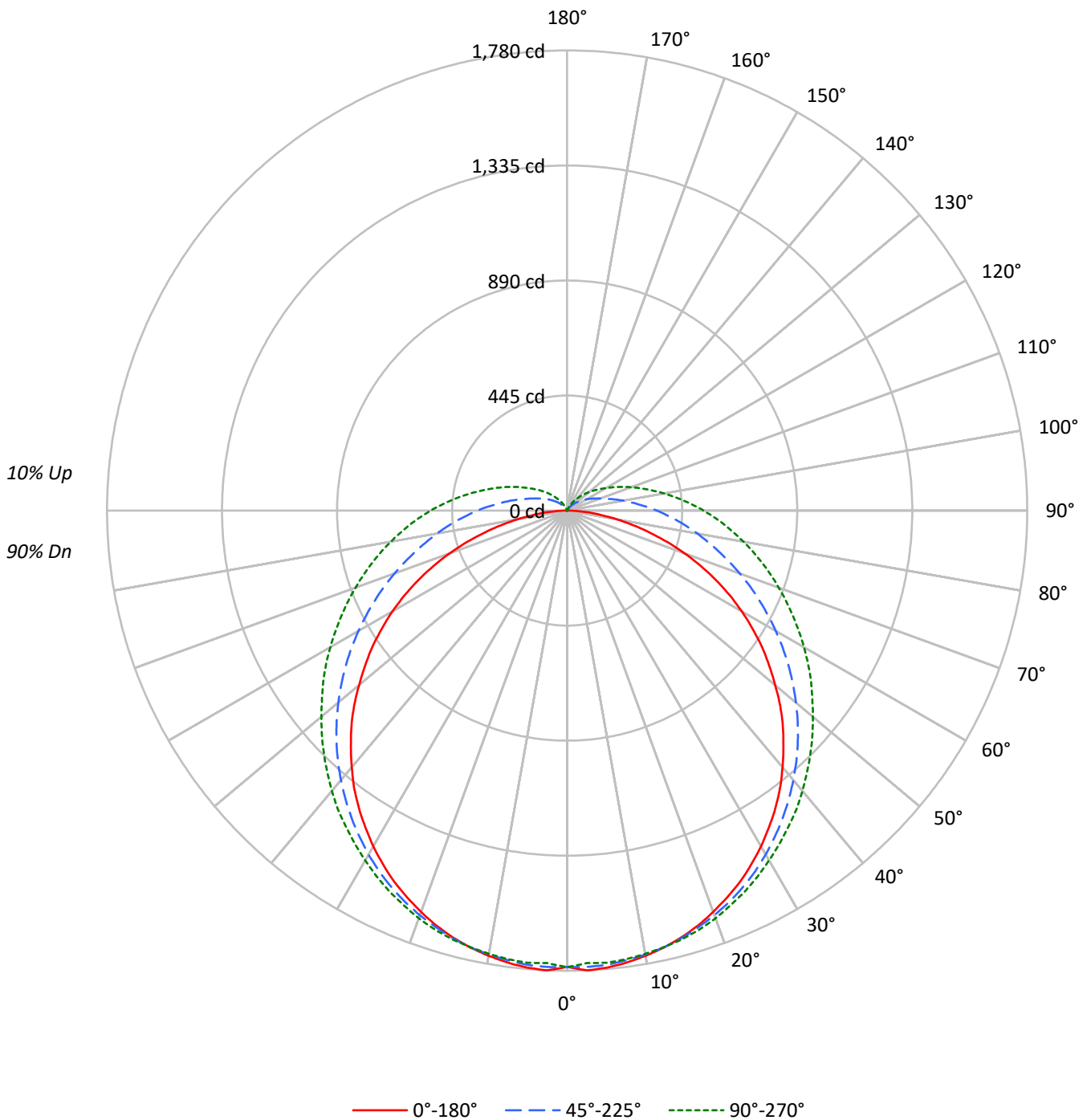
Lumens per Lamp: N/A
Luminaire Lumens: 6707.9 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

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°	12668	12668	12668
5°	12742	12379	12229
10°	12661	12066	11873
15°	12572	11771	11553
20°	12452	11464	11231
25°	12331	11166	10901
30°	12172	10848	10572
35°	12002	10516	10276
40°	11779	10179	10000
45°	11556	9844	9725
50°	11238	9494	9467
55°	10937	9149	9265
60°	10539	8796	9072
65°	9988	8462	8916
70°	9207	8156	8839
75°	8124	7915	8830
80°	6698	7805	8928
85°	4934	7876	9200



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	2.5
10°-20°	482.4	7.2
20°-30°	738.4	11.0
30°-40°	905.1	13.5
40°-50°	968.7	14.4
50°-60°	929.2	13.9
60°-70°	801.4	11.9
70°-80°	617.4	9.2
80°-90°	428.1	6.4
90°-100°	278.7	4.2
100°-110°	177.1	2.6
110°-120°	108.1	1.6
120°-130°	61.9	0.9
130°-140°	30.5	0.5
140°-150°	11.5	0.2
150°-160°	2.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1388.2	20.7
0°-40°	2293.3	34.2
0°-60°	4191.2	62.5
0°-90°	6038.0	90.0
90°-120°	563.9	8.4
90°-150°	667.7	10.0
90°-180°	670.0	10.0
0°-180°	6707.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1765	1765	1765	1765	1765	
5°	1774	1758	1764	1755	1755	169
15°	1709	1697	1712	1714	1717	482
25°	1584	1577	1608	1616	1626	729
35°	1405	1407	1453	1475	1492	878
45°	1180	1198	1262	1305	1331	909
55°	920	959	1045	1116	1152	821
65°	634	696	820	919	963	627
75°	333	437	606	732	781	354
85°	85	231	424	558	608	92
90°	2	157	347	479	528	6
95°	0	106	277	404	450	0
105°	0	52	172	279	318	0
115°	0	29	110	184	216	0
125°	1	14	68	120	141	1
135°	1	3	37	72	85	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°	1765.4	1765.4	1765.4	1765.4	1765.4
2.5°	1780.4	1762.9	1767.0	1760.4	1752.1
5°	1774.5	1757.9	1763.7	1755.4	1755.4
7.5°	1763.7	1748.7	1754.5	1749.6	1750.4
10°	1748.7	1733.7	1743.7	1739.6	1741.2
12.5°	1731.2	1716.3	1730.4	1727.1	1729.6
15°	1708.8	1697.1	1712.1	1713.8	1717.1
17.5°	1683.0	1673.0	1689.6	1694.6	1699.6
20°	1652.2	1644.7	1665.5	1670.5	1678.8
22.5°	1618.9	1612.2	1638.9	1643.0	1652.2
25°	1583.9	1577.3	1608.1	1615.5	1626.4
27.5°	1543.1	1540.6	1573.9	1584.8	1595.6
30°	1499.9	1498.2	1536.5	1549.0	1562.3
32.5°	1452.4	1454.1	1495.7	1512.3	1528.2
35°	1405.0	1406.6	1453.2	1474.9	1492.4
37.5°	1353.4	1358.4	1408.3	1434.1	1456.6
40°	1295.9	1307.6	1360.9	1392.5	1415.8
42.5°	1238.5	1254.3	1312.6	1349.2	1373.3
45°	1180.2	1197.7	1261.8	1305.1	1330.9
47.5°	1117.8	1140.3	1209.4	1258.5	1286.8
50°	1050.4	1081.2	1155.3	1212.7	1241.0
52.5°	985.5	1020.4	1100.3	1165.3	1195.2
55°	919.7	958.8	1045.4	1116.2	1151.9
57.5°	850.6	893.1	988.8	1066.2	1105.3
60°	780.7	829.0	932.2	1017.9	1057.9
62.5°	708.3	763.2	875.6	968.0	1010.4
65°	634.2	695.8	819.8	918.9	963.0
67.5°	559.3	629.2	764.9	872.3	917.2
70°	482.8	563.5	710.0	824.8	871.4
72.5°	407.8	499.4	656.7	776.6	825.7
75°	332.9	437.0	605.9	731.6	780.7
77.5°	261.4	377.9	556.0	687.5	736.6
80°	195.6	323.8	511.0	643.4	692.5
82.5°	134.8	275.5	466.9	600.9	649.2
85°	84.9	231.4	424.5	558.5	608.4
87.5°	40.8	192.3	383.7	518.5	567.6
90°	1.7	157.3	347.1	479.4	527.7
92.5°	0.0	129.0	311.3	441.1	488.6
95°	0.0	105.7	277.2	404.5	450.3
97.5°	0.0	87.4	247.2	370.4	414.5
100°	0.0	71.6	220.6	337.9	380.4
102.5°	0.0	60.8	195.6	307.1	347.9
105°	0.0	52.4	172.3	278.8	317.9
107.5°	0.0	44.9	154.0	253.0	289.7
110°	0.0	38.3	137.3	228.1	263.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	33.3	122.4	206.4	238.9
115°	0.0	29.1	109.9	183.9	215.6
117.5°	0.0	24.1	98.2	165.6	193.9
120°	0.0	20.8	87.4	149.0	174.0
122.5°	0.8	17.5	77.4	134.0	156.5
125°	0.8	14.1	68.3	119.9	140.7
127.5°	0.8	10.8	59.9	106.5	125.7
130°	0.8	8.3	51.6	94.1	110.7
132.5°	0.8	5.8	44.1	82.4	98.2
135°	0.8	3.3	36.6	71.6	84.9
137.5°	0.8	1.7	30.0	60.8	73.2
140°	0.8	0.8	24.1	51.6	62.4
142.5°	0.8	0.0	18.3	43.3	51.6
145°	0.8	0.8	14.1	34.1	42.4
147.5°	0.8	0.8	10.0	26.6	34.1
150°	0.8	0.8	5.8	19.1	25.8
152.5°	0.8	0.8	2.5	13.3	19.1
155°	0.8	0.8	0.8	8.3	12.5
157.5°	0.8	0.8	0.0	3.3	6.7
160°	1.7	0.8	0.0	0.0	1.7
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)