

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: P236357

Luminaire Tested: **4SWLED-67HL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236357
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-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

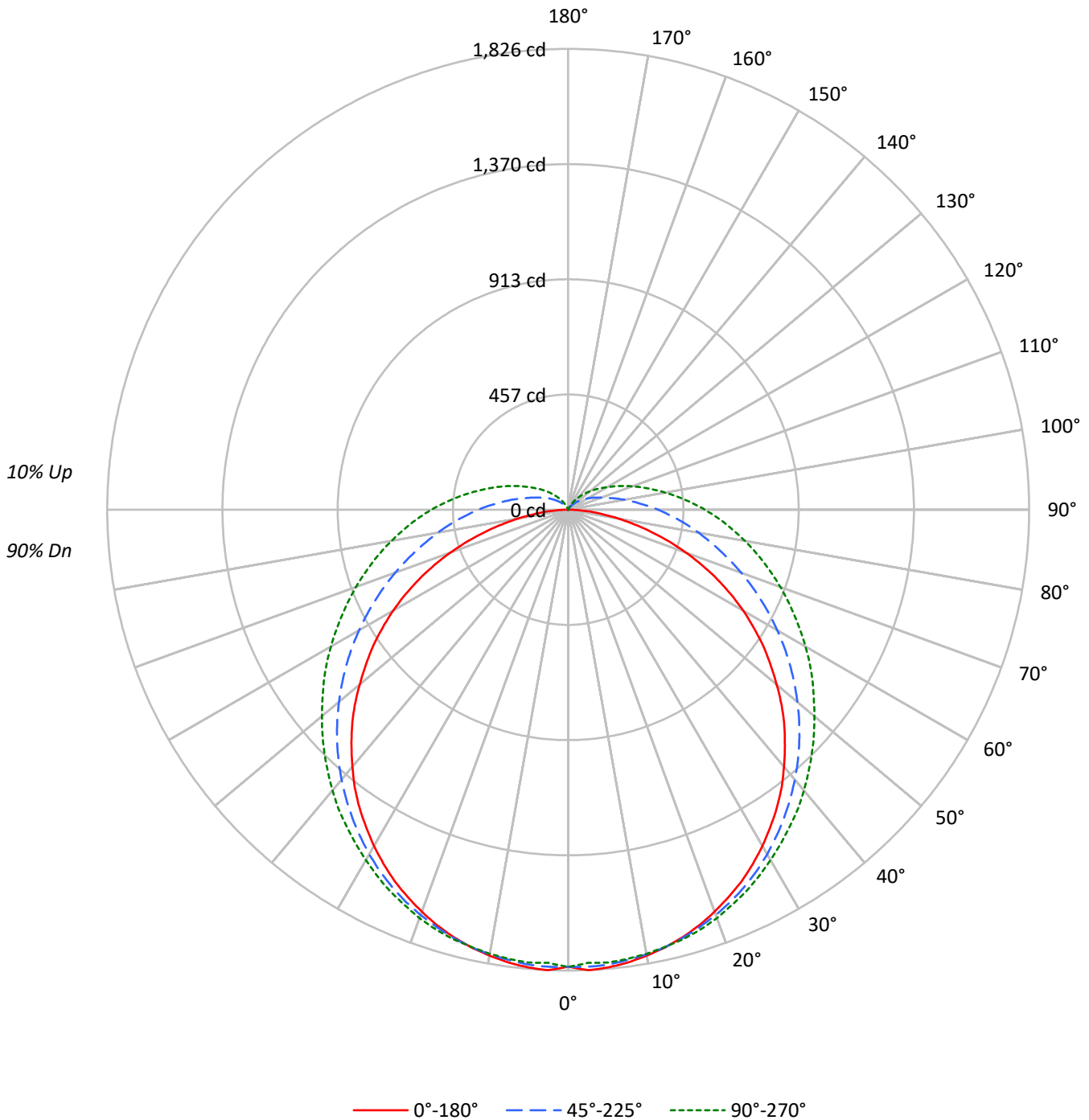
Lumens per Lamp: N/A
Luminaire Lumens: 6882.1 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

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

TEST NUMBER: P236357

CATALOG NUMBER: 4SWLED-67HL-LW-UNV-L850-CD1-U

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°	12997	12997	12997
5°	13073	12700	12546
10°	12989	12379	12182
15°	12898	12076	11852
20°	12774	11761	11522
25°	12651	11456	11184
30°	12488	11129	10846
35°	12313	10789	10542
40°	12085	10443	10259
45°	11856	10099	9977
50°	11529	9740	9712
55°	11221	9386	9506
60°	10813	9025	9307
65°	10248	8682	9147
70°	9446	8368	9069
75°	8337	8121	9060
80°	6873	8008	9160
85°	5062	8080	9439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	2.5
10°-20°	494.9	7.2
20°-30°	757.5	11.0
30°-40°	928.6	13.5
40°-50°	993.8	14.4
50°-60°	953.3	13.9
60°-70°	822.2	11.9
70°-80°	633.4	9.2
80°-90°	439.2	6.4
90°-100°	285.9	4.2
100°-110°	181.7	2.6
110°-120°	110.9	1.6
120°-130°	63.5	0.9
130°-140°	31.3	0.5
140°-150°	11.8	0.2
150°-160°	2.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1424.2	20.7
0°-40°	2352.8	34.2
0°-60°	4299.9	62.5
0°-90°	6194.6	90.0
90°-120°	578.6	8.4
90°-150°	685.1	10.0
90°-180°	687.0	10.0
0°-180°	6882.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1811	1811	1811	1811	1811	
5°	1821	1804	1810	1801	1801	173
15°	1753	1741	1756	1758	1762	495
25°	1625	1618	1650	1658	1669	748
35°	1441	1443	1491	1513	1531	901
45°	1211	1229	1294	1339	1365	933
55°	944	984	1072	1145	1182	842
65°	651	714	841	943	988	643
75°	342	448	622	751	801	363
85°	87	237	436	573	624	94
90°	2	161	356	492	541	6
95°	0	108	284	415	462	0
105°	0	54	177	286	326	0
115°	0	30	113	189	221	0
125°	1	14	70	123	144	1
135°	1	3	38	73	87	1
145°	1	1	14	35	44	1
155°	1	1	1	8	13	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236357

CATALOG NUMBER: 4SWLED-67HL-LW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1811.2	1811.2	1811.2	1811.2	1811.2
2.5°	1826.5	1808.6	1812.9	1806.0	1797.5
5°	1820.6	1803.5	1809.5	1800.9	1800.9
7.5°	1809.5	1794.1	1800.1	1794.9	1795.8
10°	1794.1	1778.7	1789.0	1784.7	1786.4
12.5°	1776.2	1760.8	1775.3	1771.9	1774.4
15°	1753.1	1741.1	1756.5	1758.2	1761.6
17.5°	1726.6	1716.4	1733.5	1738.6	1743.7
20°	1695.0	1687.3	1708.7	1713.8	1722.4
22.5°	1660.9	1654.0	1681.4	1685.6	1695.0
25°	1625.0	1618.2	1649.8	1657.5	1668.6
27.5°	1583.2	1580.6	1614.8	1625.9	1637.0
30°	1538.8	1537.1	1576.3	1589.1	1602.8
32.5°	1490.1	1491.8	1534.5	1551.6	1567.8
35°	1441.4	1443.1	1490.9	1513.1	1531.1
37.5°	1388.5	1393.6	1444.8	1471.3	1494.4
40°	1329.6	1341.5	1396.2	1428.6	1452.5
42.5°	1270.6	1286.9	1346.6	1384.2	1409.0
45°	1210.9	1228.8	1294.5	1338.9	1365.4
47.5°	1146.8	1169.9	1240.7	1291.1	1320.2
50°	1077.6	1109.2	1185.2	1244.2	1273.2
52.5°	1011.0	1046.9	1128.9	1195.5	1226.2
55°	943.6	983.7	1072.5	1145.1	1181.8
57.5°	872.7	916.3	1014.5	1093.9	1134.0
60°	801.0	850.5	956.4	1044.3	1085.3
62.5°	726.7	783.0	898.3	993.1	1036.7
65°	650.7	713.9	841.1	942.7	988.0
67.5°	573.8	645.6	784.8	894.9	941.0
70°	495.3	578.1	728.4	846.2	894.1
72.5°	418.4	512.4	673.7	796.7	847.1
75°	341.6	448.3	621.7	750.6	801.0
77.5°	268.1	387.7	570.4	705.3	755.7
80°	200.7	332.2	524.3	660.1	710.5
82.5°	138.3	282.6	479.0	616.5	666.1
85°	87.1	237.4	435.5	573.0	624.2
87.5°	41.8	197.3	393.7	532.0	582.4
90°	1.7	161.4	356.1	491.9	541.4
92.5°	0.0	132.4	319.4	452.6	501.3
95°	0.0	108.4	284.4	415.0	462.0
97.5°	0.0	89.7	253.6	380.0	425.3
100°	0.0	73.4	226.3	346.7	390.2
102.5°	0.0	62.3	200.7	315.1	356.9
105°	0.0	53.8	176.8	286.1	326.2
107.5°	0.0	46.1	158.0	259.6	297.2
110°	0.0	39.3	140.9	234.0	270.7



TEST NUMBER: P236357

CATALOG NUMBER: 4SWLED-67HL-LW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	34.2	125.5	211.8	245.1
115°	0.0	29.9	112.7	188.7	221.2
117.5°	0.0	24.8	100.8	169.9	199.0
120°	0.0	21.3	89.7	152.9	178.5
122.5°	0.9	17.9	79.4	137.5	160.5
125°	0.9	14.5	70.0	123.0	144.3
127.5°	0.9	11.1	61.5	109.3	128.9
130°	0.9	8.5	52.9	96.5	113.6
132.5°	0.9	6.0	45.3	84.5	100.8
135°	0.9	3.4	37.6	73.4	87.1
137.5°	0.9	1.7	30.7	62.3	75.1
140°	0.9	0.9	24.8	52.9	64.0
142.5°	0.9	0.0	18.8	44.4	52.9
145°	0.9	0.9	14.5	35.0	43.5
147.5°	0.9	0.9	10.2	27.3	35.0
150°	0.9	0.9	6.0	19.6	26.5
152.5°	0.9	0.9	2.6	13.7	19.6
155°	0.9	0.9	0.9	8.5	12.8
157.5°	0.9	0.9	0.0	3.4	6.8
160°	1.7	0.9	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)