

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: P236354

Luminaire Tested: **4SWLED-64HL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236354
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-64HL-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

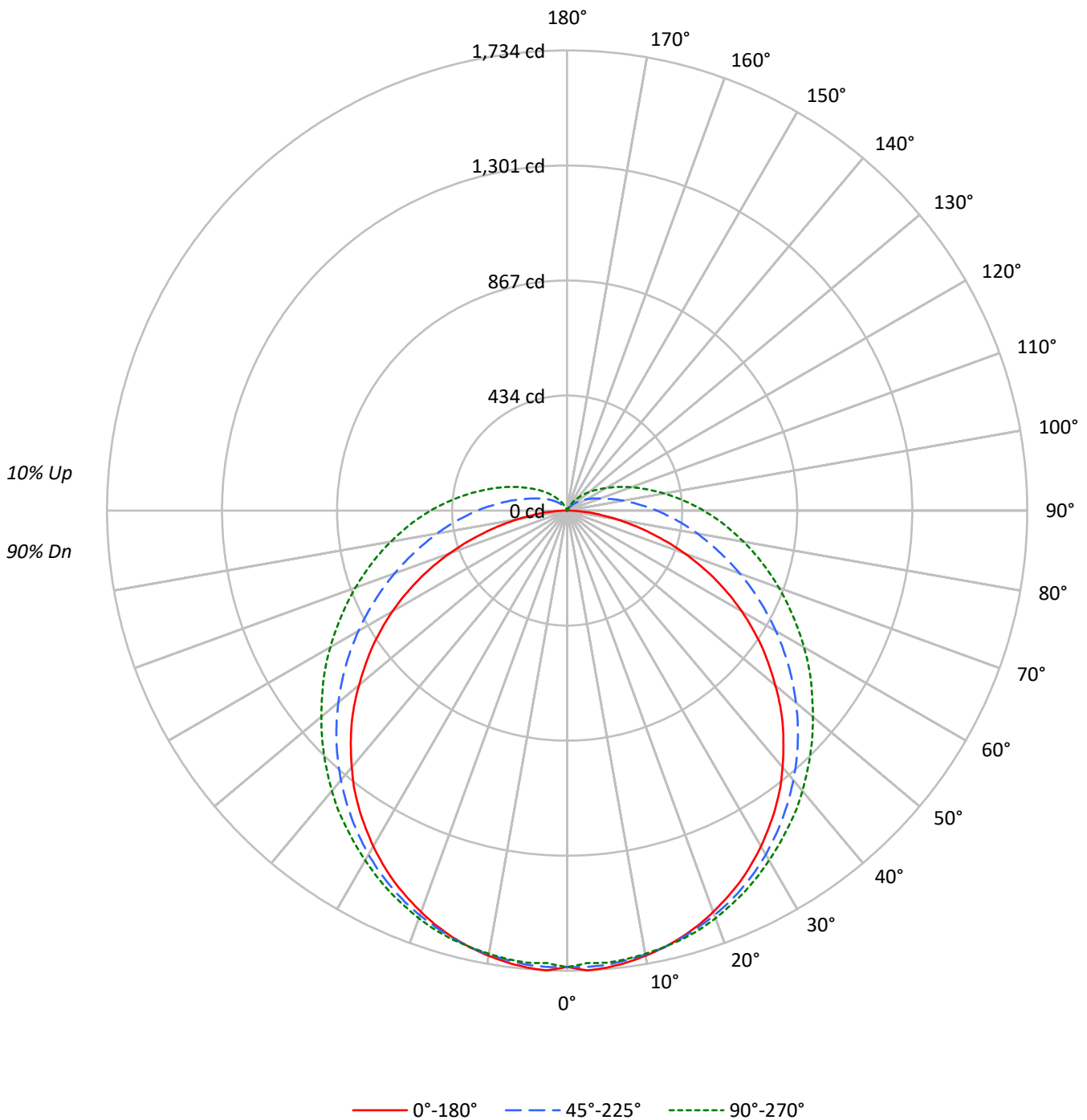
Lumens per Lamp: N/A
Luminaire Lumens: 6535.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 62
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°	12341	12341	12341
5°	12414	12059	11913
10°	12334	11755	11567
15°	12248	11467	11255
20°	12131	11168	10941
25°	12014	10878	10619
30°	11858	10568	10299
35°	11692	10245	10011
40°	11475	9917	9742
45°	11258	9591	9474
50°	10948	9249	9223
55°	10655	8913	9026
60°	10268	8570	8838
65°	9731	8244	8686
70°	8969	7946	8612
75°	7915	7711	8603
80°	6527	7604	8697
85°	4806	7672	8962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	2.5
10°-20°	470.0	7.2
20°-30°	719.3	11.0
30°-40°	881.8	13.5
40°-50°	943.7	14.4
50°-60°	905.2	13.9
60°-70°	780.7	11.9
70°-80°	601.5	9.2
80°-90°	417.0	6.4
90°-100°	271.5	4.2
100°-110°	172.6	2.6
110°-120°	105.3	1.6
120°-130°	60.3	0.9
130°-140°	29.7	0.5
140°-150°	11.2	0.2
150°-160°	2.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1352.4	20.7
0°-40°	2234.1	34.2
0°-60°	4083.1	62.5
0°-90°	5882.3	90.0
90°-120°	549.4	8.4
90°-150°	650.5	10.0
90°-180°	653.0	10.0
0°-180°	6535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1720	1720	1720	1720	1720	
5°	1729	1712	1718	1710	1710	164
15°	1665	1653	1668	1670	1673	470
25°	1543	1537	1567	1574	1584	711
35°	1369	1370	1416	1437	1454	856
45°	1150	1167	1229	1271	1297	886
55°	896	934	1018	1087	1122	800
65°	618	678	799	895	938	611
75°	324	426	590	713	761	344
85°	83	225	414	544	593	90
90°	2	153	338	467	514	6
95°	0	103	270	394	439	0
105°	0	51	168	272	310	0
115°	0	28	107	179	210	0
125°	1	14	66	117	137	1
135°	1	3	36	70	83	1
145°	1	1	14	33	41	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°	1719.8	1719.8	1719.8	1719.8	1719.8
2.5°	1734.4	1717.4	1721.5	1715.0	1706.9
5°	1728.8	1712.5	1718.2	1710.1	1710.1
7.5°	1718.2	1703.6	1709.3	1704.4	1705.2
10°	1703.6	1689.0	1698.8	1694.7	1696.3
12.5°	1686.6	1672.0	1685.8	1682.5	1685.0
15°	1664.7	1653.3	1667.9	1669.6	1672.8
17.5°	1639.6	1629.8	1646.1	1650.9	1655.8
20°	1609.6	1602.3	1622.5	1627.4	1635.5
22.5°	1577.1	1570.6	1596.6	1600.6	1609.6
25°	1543.1	1536.6	1566.6	1573.9	1584.4
27.5°	1503.3	1500.9	1533.3	1543.9	1554.4
30°	1461.2	1459.6	1496.9	1509.0	1522.0
32.5°	1415.0	1416.6	1457.1	1473.3	1488.7
35°	1368.7	1370.4	1415.8	1436.8	1453.9
37.5°	1318.5	1323.3	1372.0	1397.1	1419.0
40°	1262.5	1273.9	1325.8	1356.6	1379.3
42.5°	1206.6	1222.0	1278.7	1314.4	1337.9
45°	1149.8	1166.8	1229.3	1271.4	1296.6
47.5°	1089.0	1110.9	1178.2	1226.0	1253.6
50°	1023.3	1053.3	1125.5	1181.4	1209.0
52.5°	960.1	994.1	1072.0	1135.2	1164.4
55°	896.0	934.1	1018.4	1087.4	1122.2
57.5°	828.7	870.1	963.3	1038.7	1076.8
60°	760.6	807.6	908.2	991.7	1030.6
62.5°	690.0	743.6	853.0	943.0	984.4
65°	617.9	677.9	798.7	895.2	938.2
67.5°	544.9	613.0	745.2	849.8	893.6
70°	470.3	549.0	691.7	803.6	849.0
72.5°	397.3	486.5	639.8	756.5	804.4
75°	324.3	425.7	590.3	712.7	760.6
77.5°	254.6	368.1	541.7	669.8	717.6
80°	190.6	315.4	497.9	626.8	674.6
82.5°	131.4	268.4	454.9	585.4	632.5
85°	82.7	225.4	413.5	544.1	592.7
87.5°	39.7	187.3	373.8	505.2	553.0
90°	1.6	153.3	338.1	467.1	514.1
92.5°	0.0	125.7	303.3	429.8	476.0
95°	0.0	103.0	270.0	394.1	438.7
97.5°	0.0	85.1	240.8	360.8	403.8
100°	0.0	69.7	214.9	329.2	370.6
102.5°	0.0	59.2	190.6	299.2	338.9
105°	0.0	51.1	167.8	271.6	309.7
107.5°	0.0	43.8	150.0	246.5	282.2
110°	0.0	37.3	133.8	222.2	257.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	32.4	119.2	201.1	232.7
115°	0.0	28.4	107.0	179.2	210.0
117.5°	0.0	23.5	95.7	161.4	188.9
120°	0.0	20.3	85.1	145.1	169.5
122.5°	0.8	17.0	75.4	130.5	152.4
125°	0.8	13.8	66.5	116.8	137.0
127.5°	0.8	10.5	58.4	103.8	122.4
130°	0.8	8.1	50.3	91.6	107.8
132.5°	0.8	5.7	43.0	80.3	95.7
135°	0.8	3.2	35.7	69.7	82.7
137.5°	0.8	1.6	29.2	59.2	71.4
140°	0.8	0.8	23.5	50.3	60.8
142.5°	0.8	0.0	17.8	42.2	50.3
145°	0.8	0.8	13.8	33.2	41.4
147.5°	0.8	0.8	9.7	25.9	33.2
150°	0.8	0.8	5.7	18.6	25.1
152.5°	0.8	0.8	2.4	13.0	18.6
155°	0.8	0.8	0.8	8.1	12.2
157.5°	0.8	0.8	0.0	3.2	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)