

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: P236352

Luminaire Tested: **4SWLED-64HL-LW-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236352
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-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

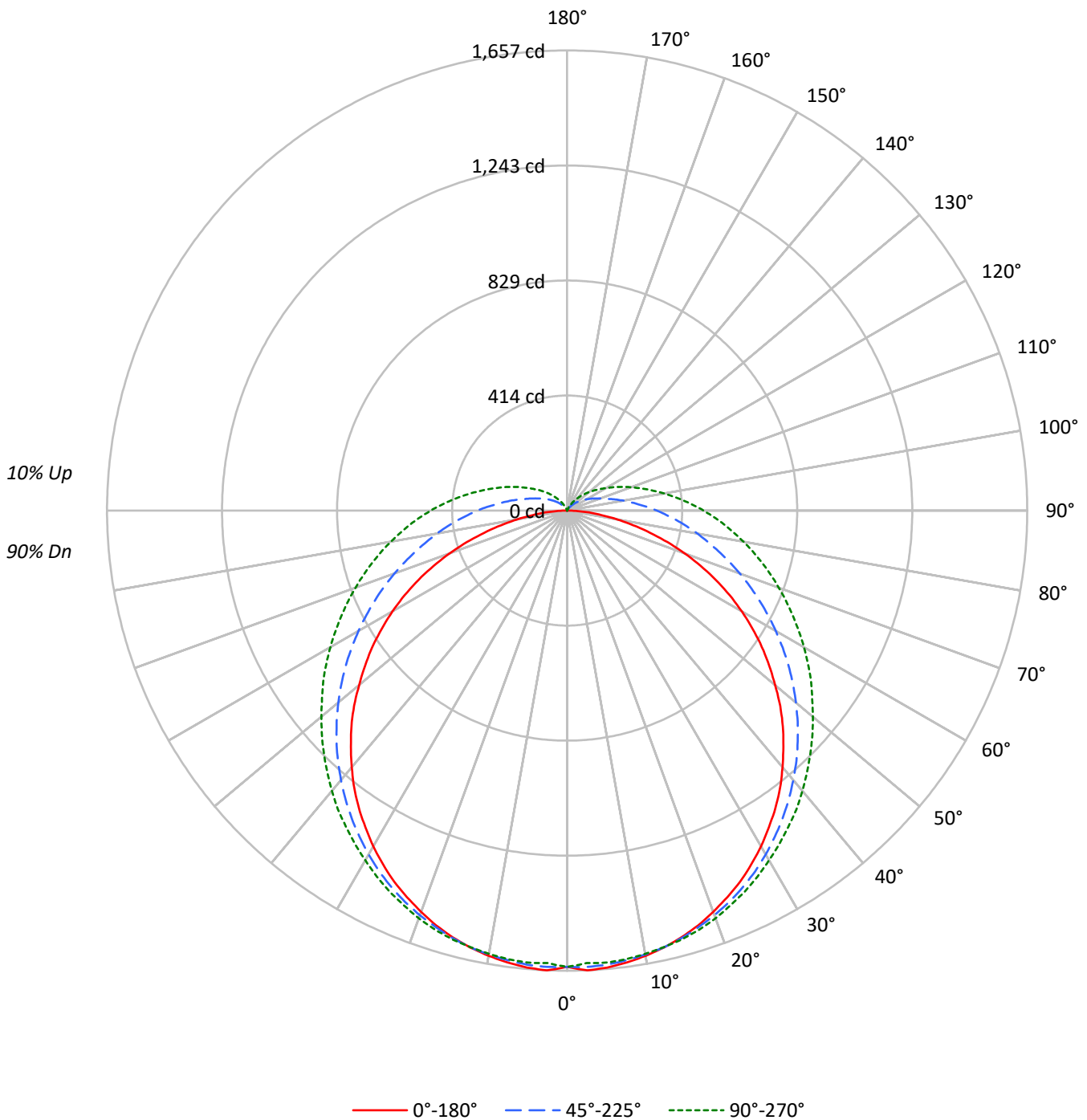
Lumens per Lamp: N/A
Luminaire Lumens: 6244.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 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	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°	11792	11792	11792
5°	11861	11523	11383
10°	11785	11231	11052
15°	11702	10957	10753
20°	11590	10671	10454
25°	11479	10394	10147
30°	11330	10097	9840
35°	11171	9788	9564
40°	10965	9475	9308
45°	10757	9163	9052
50°	10460	8838	8812
55°	10180	8516	8625
60°	9810	8188	8444
65°	9298	7877	8299
70°	8570	7592	8228
75°	7563	7367	8219
80°	6236	7265	8310
85°	4591	7330	8563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	2.5
10°-20°	449.0	7.2
20°-30°	687.3	11.0
30°-40°	842.5	13.5
40°-50°	901.7	14.4
50°-60°	864.9	13.9
60°-70°	745.9	11.9
70°-80°	574.7	9.2
80°-90°	398.5	6.4
90°-100°	259.4	4.2
100°-110°	164.9	2.6
110°-120°	100.6	1.6
120°-130°	57.6	0.9
130°-140°	28.4	0.5
140°-150°	10.7	0.2
150°-160°	2.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1292.1	20.7
0°-40°	2134.7	34.2
0°-60°	3901.3	62.5
0°-90°	5620.3	90.0
90°-120°	524.9	8.4
90°-150°	621.6	10.0
90°-180°	624.0	10.0
0°-180°	6244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1643	1643	1643	1643	1643	
5°	1652	1636	1642	1634	1634	157
15°	1591	1580	1594	1595	1598	449
25°	1474	1468	1497	1504	1514	679
35°	1308	1309	1353	1373	1389	818
45°	1099	1115	1174	1215	1239	846
55°	856	892	973	1039	1072	764
65°	590	648	763	855	896	583
75°	310	407	564	681	727	329
85°	79	215	395	520	566	86
90°	2	146	323	446	491	6
95°	0	98	258	376	419	0
105°	0	49	160	260	296	0
115°	0	27	102	171	201	0
125°	1	13	64	112	131	1
135°	1	3	34	67	79	1
145°	1	1	13	32	40	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°	1643.3	1643.3	1643.3	1643.3	1643.3
2.5°	1657.2	1640.9	1644.8	1638.6	1630.9
5°	1651.8	1636.3	1641.7	1634.0	1634.0
7.5°	1641.7	1627.8	1633.2	1628.5	1629.3
10°	1627.8	1613.8	1623.1	1619.2	1620.8
12.5°	1611.5	1597.5	1610.7	1607.6	1609.9
15°	1590.6	1579.7	1593.7	1595.2	1598.3
17.5°	1566.6	1557.3	1572.8	1577.4	1582.1
20°	1537.9	1530.9	1550.3	1554.9	1562.7
22.5°	1506.9	1500.7	1525.5	1529.4	1537.9
25°	1474.4	1468.2	1496.8	1503.8	1513.9
27.5°	1436.4	1434.1	1465.1	1475.1	1485.2
30°	1396.1	1394.6	1430.2	1441.8	1454.2
32.5°	1351.9	1353.5	1392.2	1407.7	1422.5
35°	1307.8	1309.3	1352.7	1372.9	1389.1
37.5°	1259.8	1264.4	1310.9	1334.9	1355.8
40°	1206.3	1217.1	1266.7	1296.2	1317.9
42.5°	1152.8	1167.6	1221.8	1255.9	1278.3
45°	1098.6	1114.9	1174.5	1214.8	1238.8
47.5°	1040.5	1061.4	1125.7	1171.4	1197.8
50°	977.7	1006.4	1075.4	1128.8	1155.2
52.5°	917.3	949.8	1024.2	1084.7	1112.5
55°	856.1	892.5	973.1	1038.9	1072.3
57.5°	791.8	831.3	920.4	992.5	1028.9
60°	726.7	771.7	867.7	947.5	984.7
62.5°	659.3	710.5	815.0	901.0	940.6
65°	590.4	647.7	763.1	855.3	896.4
67.5°	520.6	585.7	712.0	811.9	853.8
70°	449.4	524.5	660.9	767.8	811.2
72.5°	379.6	464.9	611.3	722.8	768.6
75°	309.9	406.7	564.0	681.0	726.7
77.5°	243.3	351.7	517.5	639.9	685.7
80°	182.1	301.4	475.7	598.9	644.6
82.5°	125.5	256.4	434.6	559.4	604.3
85°	79.0	215.4	395.1	519.9	566.3
87.5°	38.0	179.0	357.2	482.7	528.4
90°	1.5	146.4	323.1	446.3	491.2
92.5°	0.0	120.1	289.8	410.6	454.8
95°	0.0	98.4	258.0	376.5	419.1
97.5°	0.0	81.3	230.1	344.8	385.8
100°	0.0	66.6	205.3	314.6	354.1
102.5°	0.0	56.6	182.1	285.9	323.8
105°	0.0	48.8	160.4	259.5	296.0
107.5°	0.0	41.8	143.3	235.5	269.6
110°	0.0	35.6	127.8	212.3	245.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	31.0	113.9	192.1	222.4
115°	0.0	27.1	102.3	171.2	200.7
117.5°	0.0	22.5	91.4	154.2	180.5
120°	0.0	19.4	81.3	138.7	161.9
122.5°	0.8	16.3	72.1	124.7	145.7
125°	0.8	13.2	63.5	111.6	130.9
127.5°	0.8	10.1	55.8	99.2	117.0
130°	0.8	7.7	48.0	87.5	103.0
132.5°	0.8	5.4	41.1	76.7	91.4
135°	0.8	3.1	34.1	66.6	79.0
137.5°	0.8	1.5	27.9	56.6	68.2
140°	0.8	0.8	22.5	48.0	58.1
142.5°	0.8	0.0	17.0	40.3	48.0
145°	0.8	0.8	13.2	31.8	39.5
147.5°	0.8	0.8	9.3	24.8	31.8
150°	0.8	0.8	5.4	17.8	24.0
152.5°	0.8	0.8	2.3	12.4	17.8
155°	0.8	0.8	0.8	7.7	11.6
157.5°	0.8	0.8	0.0	3.1	6.2
160°	1.5	0.8	0.0	0.0	1.5
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)