

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P544652

Luminaire Tested: **8TSLES-2-T8-2G-B835-U**

Issue Date: 7/2/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P544652  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-256-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/2/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8TSLES-2-T8-2G-B835-U  
Description: 80CRI 3500K TLED Strip  
Light Source: MainsFit Glass TLED - (4) 4FT 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7062.2 lumens  
Efficiency: N/A  
Efficacy: 147.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.36 / 1.44  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Direct

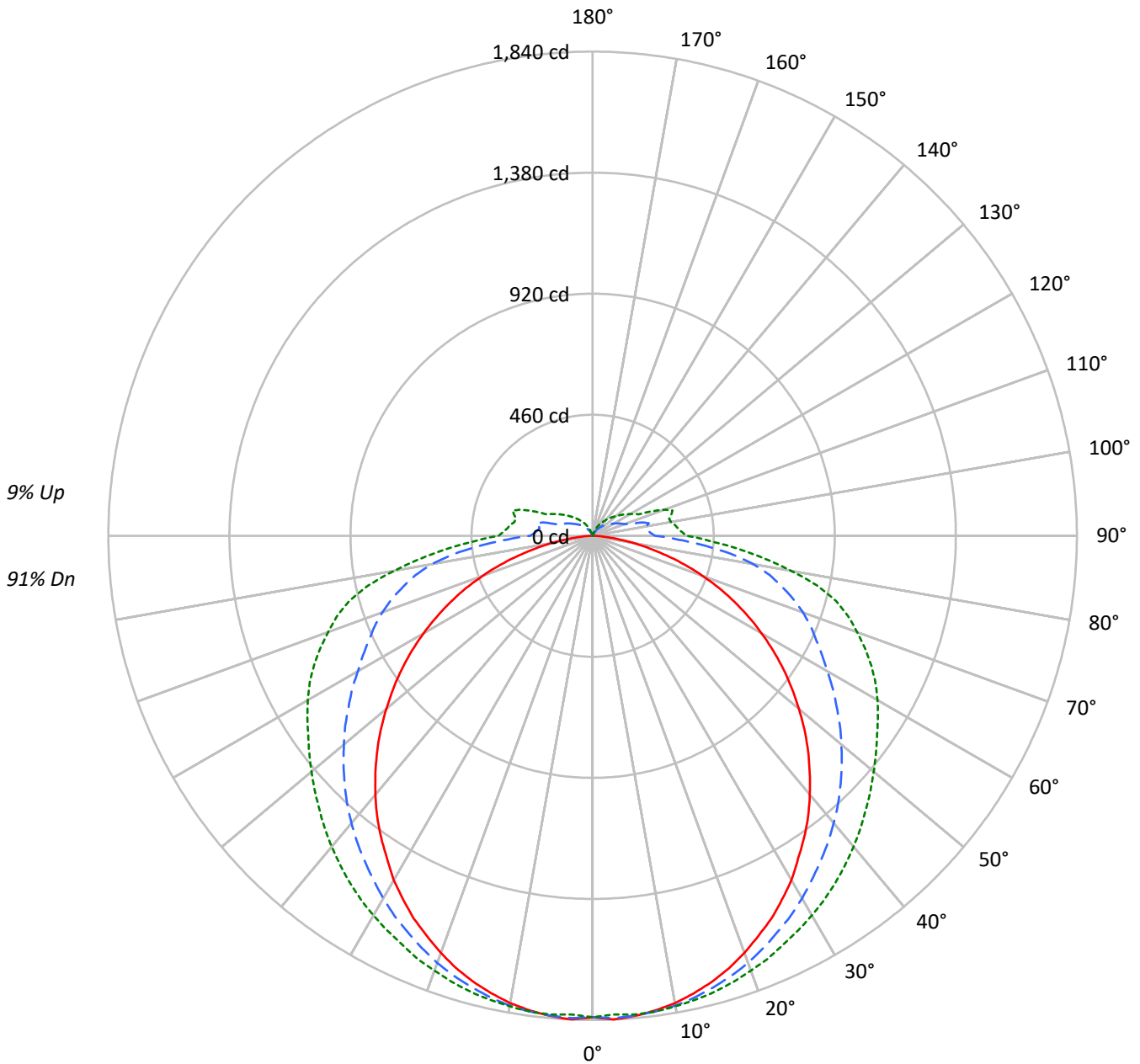
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	100	100	100	94	94	94	91																			
1	104	98	93	89	101	95	91	86	89	86	82	84	81	78	79	76	74	71																			
2	94	84	77	70	90	82	75	69	77	71	66	72	67	63	68	64	60	57																			
3	85	73	64	57	81	71	63	56	67	60	54	63	57	52	59	54	50	47																			
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	47	42	39																			
5	71	57	48	40	68	55	47	40	52	45	39	49	43	37	47	41	36	34																			
6	65	51	42	35	63	50	41	35	47	39	33	44	38	32	42	36	32	29																			
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	26																			
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	23																			
9	52	39	30	24	50	38	30	24	36	29	23	34	28	23	32	27	22	20																			
10	49	35	27	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4922	4922	4922
5°	4948	4945	4934
10°	4928	4954	4961
15°	4888	4948	4997
20°	4829	4946	5036
25°	4769	4934	5088
30°	4695	4944	5177
35°	4602	4959	5285
40°	4510	5007	5417
45°	4405	5072	5590
50°	4281	5164	5836
55°	4154	5309	6189
60°	3989	5541	6726
65°	3784	5966	7438
70°	3489	6688	8411
75°	3026	7734	9954
80°	2424	9611	11866
85°	1470	13184	16923



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.6	2.5
10°-20°	500.0	7.1
20°-30°	764.9	10.8
30°-40°	942.4	13.3
40°-50°	1019.9	14.4
50°-60°	1001.0	14.2
60°-70°	903.3	12.8
70°-80°	724.5	10.3
80°-90°	413.7	5.9
90°-100°	210.5	3.0
100°-110°	176.1	2.5
110°-120°	106.7	1.5
120°-130°	66.4	0.9
130°-140°	37.3	0.5
140°-150°	17.7	0.3
150°-160°	4.2	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1438.6	20.4
0°-40°	2381.0	33.7
0°-60°	4401.9	62.3
0°-90°	6443.3	91.2
90°-120°	493.3	7.0
90°-150°	614.7	8.7
90°-180°	619.0	8.8
0°-180°	7062.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1829	1829	1829	1829	1829	
5°	1832	1818	1831	1821	1826	174
15°	1754	1752	1776	1783	1794	495
25°	1606	1618	1662	1692	1714	739
35°	1401	1432	1510	1572	1609	876
45°	1157	1213	1333	1421	1469	893
55°	885	976	1132	1258	1319	791
65°	594	726	937	1104	1168	588
75°	291	490	744	900	957	311
85°	48	275	427	515	548	62
90°	0	114	238	325	358	2
95°	0	98	212	294	325	0
105°	0	54	196	290	309	0
115°	0	35	110	170	193	0
125°	0	24	78	122	140	0
135°	0	4	52	84	97	0
145°	0	0	29	53	61	1
155°	1	0	0	18	30	1
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°	1829.2	1829.2	1829.2	1829.2	1829.2
2.5°	1840.1	1823.8	1834.6	1825.1	1821.0
5°	1831.9	1818.3	1830.6	1821.0	1826.5
7.5°	1819.7	1808.8	1823.8	1817.0	1823.8
10°	1803.4	1793.8	1812.9	1807.4	1815.6
12.5°	1780.2	1774.8	1796.6	1796.6	1806.1
15°	1754.4	1751.7	1776.2	1783.0	1793.8
17.5°	1723.1	1724.5	1753.0	1765.3	1777.5
20°	1686.4	1693.2	1727.2	1740.8	1758.5
22.5°	1645.6	1657.8	1695.9	1715.0	1739.4
25°	1606.2	1618.4	1661.9	1691.8	1713.6
27.5°	1558.6	1576.2	1629.3	1666.0	1690.5
30°	1511.0	1530.0	1591.2	1637.4	1666.0
32.5°	1453.8	1482.4	1550.4	1604.8	1638.8
35°	1400.8	1432.1	1509.6	1572.2	1608.9
37.5°	1345.0	1380.4	1468.8	1538.2	1576.2
40°	1283.8	1326.0	1425.3	1500.1	1542.2
42.5°	1221.3	1270.2	1380.4	1460.6	1506.9
45°	1157.4	1213.1	1332.8	1421.2	1468.8
47.5°	1092.1	1157.4	1283.8	1381.8	1432.1
50°	1022.7	1098.9	1233.5	1339.6	1394.0
52.5°	954.7	1039.0	1184.6	1298.8	1357.3
55°	885.4	976.5	1131.5	1258.0	1319.2
57.5°	814.6	915.3	1082.6	1218.6	1285.2
60°	741.2	852.7	1029.5	1181.8	1249.8
62.5°	669.1	790.2	983.3	1146.5	1211.8
65°	594.3	726.2	937.0	1104.3	1168.2
67.5°	520.9	661.0	896.2	1058.1	1120.6
70°	443.4	599.8	850.0	1006.4	1069.0
72.5°	368.6	541.3	799.7	956.1	1018.6
75°	291.0	489.6	743.9	900.3	957.4
77.5°	221.7	448.8	688.2	826.9	873.1
80°	156.4	399.8	620.2	729.0	765.7
82.5°	96.6	342.7	530.4	622.9	656.9
85°	47.6	274.7	427.0	515.4	548.1
87.5°	13.6	190.4	323.7	409.4	444.7
90°	0.0	114.2	238.0	325.0	357.7
92.5°	0.0	100.6	221.7	306.0	338.6
95°	0.0	97.9	212.2	293.8	325.0
97.5°	0.0	102.0	204.0	281.5	315.5
100°	0.0	69.4	206.7	272.0	301.9
102.5°	0.0	61.2	219.0	274.7	297.8
105°	0.0	54.4	195.8	289.7	308.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	39.4	119.7	187.7	242.1
115°	0.0	35.4	110.2	170.0	193.1
117.5°	0.0	32.6	100.6	156.4	179.5
120°	0.0	29.9	92.5	144.2	164.6
122.5°	0.0	27.2	84.3	133.3	152.3
125°	0.0	24.5	77.5	122.4	140.1
127.5°	0.0	21.8	70.7	111.5	127.8
130°	0.0	17.7	65.3	102.0	117.0
132.5°	0.0	10.9	58.5	92.5	106.1
135°	0.0	4.1	51.7	84.3	96.6
137.5°	0.0	1.4	46.2	76.2	87.0
140°	0.0	0.0	39.4	68.0	78.9
142.5°	0.0	0.0	34.0	61.2	69.4
145°	0.0	0.0	28.6	53.0	61.2
147.5°	1.4	0.0	20.4	44.9	54.4
150°	1.4	0.0	10.9	38.1	46.2
152.5°	1.4	0.0	2.7	29.9	39.4
155°	1.4	0.0	0.0	17.7	29.9
157.5°	1.4	0.0	0.0	4.1	16.3
160°	1.4	0.0	0.0	0.0	2.7
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



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	0.0	47.6	146.9	280.2	318.2
110°	0.0	43.5	129.2	243.4	289.7



(END OF REPORT)