

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: P544650

Luminaire Tested: **8TSLES-2-T8-1G-B850-U**

Issue Date: 7/2/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P544650  
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-T8-1G-B850-U  
Description: 80CRI 5000K TLED Strip  
Light Source: MainsFit Glass TLED - (4) 4FT 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6854.5 lumens  
Efficiency: N/A  
Efficacy: 173.1 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

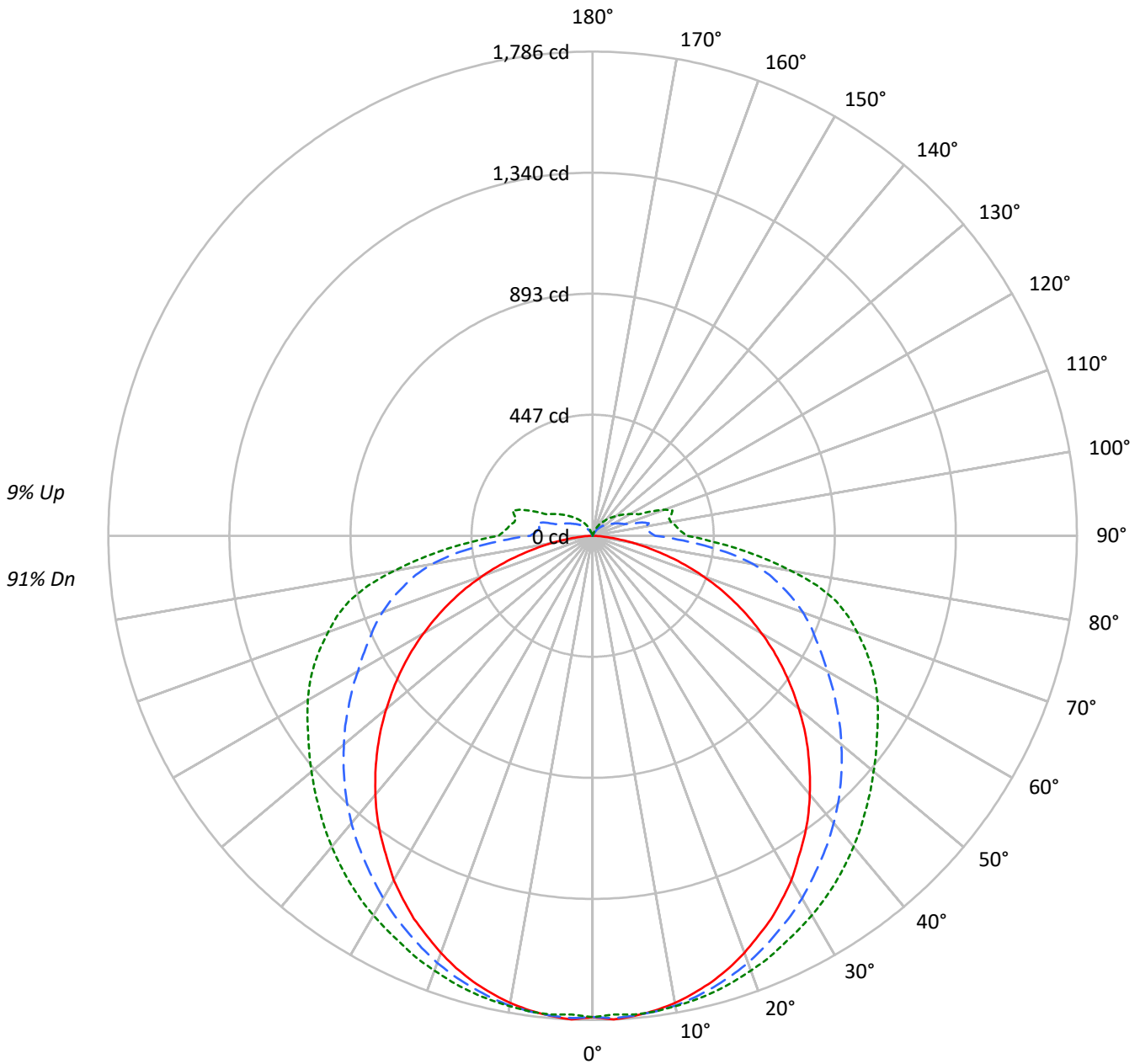
Input Watts (W): 39.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4778	4778	4778
5°	4803	4799	4789
10°	4783	4808	4815
15°	4744	4803	4851
20°	4687	4801	4888
25°	4629	4789	4938
30°	4557	4799	5024
35°	4466	4813	5130
40°	4377	4860	5258
45°	4275	4923	5425
50°	4155	5012	5664
55°	4031	5152	6007
60°	3872	5378	6529
65°	3673	5791	7220
70°	3386	6491	8163
75°	2937	7507	9662
80°	2352	9327	11517
85°	1426	12798	16426



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.5	2.5
10°-20°	485.3	7.1
20°-30°	742.5	10.8
30°-40°	914.7	13.3
40°-50°	989.9	14.4
50°-60°	971.5	14.2
60°-70°	876.7	12.8
70°-80°	703.2	10.3
80°-90°	401.5	5.9
90°-100°	204.3	3.0
100°-110°	171.0	2.5
110°-120°	103.5	1.5
120°-130°	64.4	0.9
130°-140°	36.2	0.5
140°-150°	17.2	0.3
150°-160°	4.1	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1396.3	20.4
0°-40°	2311.0	33.7
0°-60°	4272.4	62.3
0°-90°	6253.8	91.2
90°-120°	478.8	7.0
90°-150°	596.6	8.7
90°-180°	601.0	8.8
0°-180°	6854.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1778	1765	1777	1768	1773	169
15°	1703	1700	1724	1730	1741	480
25°	1559	1571	1613	1642	1663	718
35°	1360	1390	1465	1526	1562	851
45°	1123	1177	1294	1379	1426	866
55°	859	948	1098	1221	1280	768
65°	577	705	910	1072	1134	571
75°	282	475	722	874	929	302
85°	46	267	414	500	532	60
90°	0	111	231	316	347	2
95°	0	95	206	285	316	0
105°	0	53	190	281	300	0
115°	0	34	107	165	187	0
125°	0	24	75	119	136	0
135°	0	4	50	82	94	0
145°	0	0	28	52	59	1
155°	1	0	0	17	29	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P544650

CATALOG NUMBER: 8TSLES-2-T8-1G-B850-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1775.4	1775.4	1775.4	1775.4	1775.4
2.5°	1786.0	1770.1	1780.7	1771.4	1767.5
5°	1778.0	1764.8	1776.7	1767.5	1772.8
7.5°	1766.2	1755.6	1770.1	1763.5	1770.1
10°	1750.3	1741.1	1759.6	1754.3	1762.2
12.5°	1727.9	1722.6	1743.7	1743.7	1753.0
15°	1702.8	1700.2	1723.9	1730.5	1741.1
17.5°	1672.4	1673.8	1701.5	1713.4	1725.2
20°	1636.8	1643.4	1676.4	1689.6	1706.8
22.5°	1597.2	1609.1	1646.0	1664.5	1688.3
25°	1558.9	1570.8	1613.0	1642.1	1663.2
27.5°	1512.7	1529.9	1581.4	1617.0	1640.8
30°	1466.5	1485.0	1544.4	1589.3	1617.0
32.5°	1411.1	1438.8	1504.8	1557.6	1590.6
35°	1359.6	1390.0	1465.2	1525.9	1561.6
37.5°	1305.5	1339.8	1425.6	1492.9	1529.9
40°	1246.1	1287.0	1383.4	1456.0	1496.9
42.5°	1185.4	1232.9	1339.8	1417.7	1462.6
45°	1123.3	1177.4	1293.6	1379.4	1425.6
47.5°	1060.0	1123.3	1246.1	1341.1	1390.0
50°	992.6	1066.6	1197.2	1300.2	1353.0
52.5°	926.6	1008.5	1149.7	1260.6	1317.4
55°	859.3	947.8	1098.2	1221.0	1280.4
57.5°	790.7	888.4	1050.7	1182.7	1247.4
60°	719.4	827.6	999.2	1147.1	1213.1
62.5°	649.4	766.9	954.4	1112.8	1176.1
65°	576.8	704.9	909.5	1071.8	1133.9
67.5°	505.6	641.5	869.9	1027.0	1087.7
70°	430.3	582.1	825.0	976.8	1037.5
72.5°	357.7	525.4	776.2	928.0	988.7
75°	282.5	475.2	722.0	873.8	929.3
77.5°	215.2	435.6	667.9	802.6	847.4
80°	151.8	388.1	601.9	707.5	743.2
82.5°	93.7	332.6	514.8	604.6	637.6
85°	46.2	266.6	414.5	500.3	532.0
87.5°	13.2	184.8	314.2	397.3	431.6
90°	0.0	110.9	231.0	315.5	347.2
92.5°	0.0	97.7	215.2	297.0	328.7
95°	0.0	95.0	205.9	285.1	315.5
97.5°	0.0	99.0	198.0	273.2	306.2
100°	0.0	67.3	200.6	264.0	293.0
102.5°	0.0	59.4	212.5	266.6	289.1
105°	0.0	52.8	190.1	281.2	299.6



TEST NUMBER: P544650

CATALOG NUMBER: 8TSLES-2-T8-1G-B850-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	38.3	116.2	182.2	235.0
115°	0.0	34.3	106.9	165.0	187.4
117.5°	0.0	31.7	97.7	151.8	174.2
120°	0.0	29.0	89.8	139.9	159.7
122.5°	0.0	26.4	81.8	129.4	147.8
125°	0.0	23.8	75.2	118.8	136.0
127.5°	0.0	21.1	68.6	108.2	124.1
130°	0.0	17.2	63.4	99.0	113.5
132.5°	0.0	10.6	56.8	89.8	103.0
135°	0.0	4.0	50.2	81.8	93.7
137.5°	0.0	1.3	44.9	73.9	84.5
140°	0.0	0.0	38.3	66.0	76.6
142.5°	0.0	0.0	33.0	59.4	67.3
145°	0.0	0.0	27.7	51.5	59.4
147.5°	1.3	0.0	19.8	43.6	52.8
150°	1.3	0.0	10.6	37.0	44.9
152.5°	1.3	0.0	2.6	29.0	38.3
155°	1.3	0.0	0.0	17.2	29.0
157.5°	1.3	0.0	0.0	4.0	15.8
160°	1.3	0.0	0.0	0.0	2.6
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



Report Generated By 670245859 / DESKTOP-HRDQ47P







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







107.5°	0.0	46.2	142.6	271.9	308.9
110°	0.0	42.2	125.4	236.3	281.2



(END OF REPORT)