

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: P544646

Luminaire Tested: **8TSLES-2-T8-1G-B835-U**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544646
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-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: 6646.8 lumens
Efficiency: N/A
Efficacy: 167.8 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

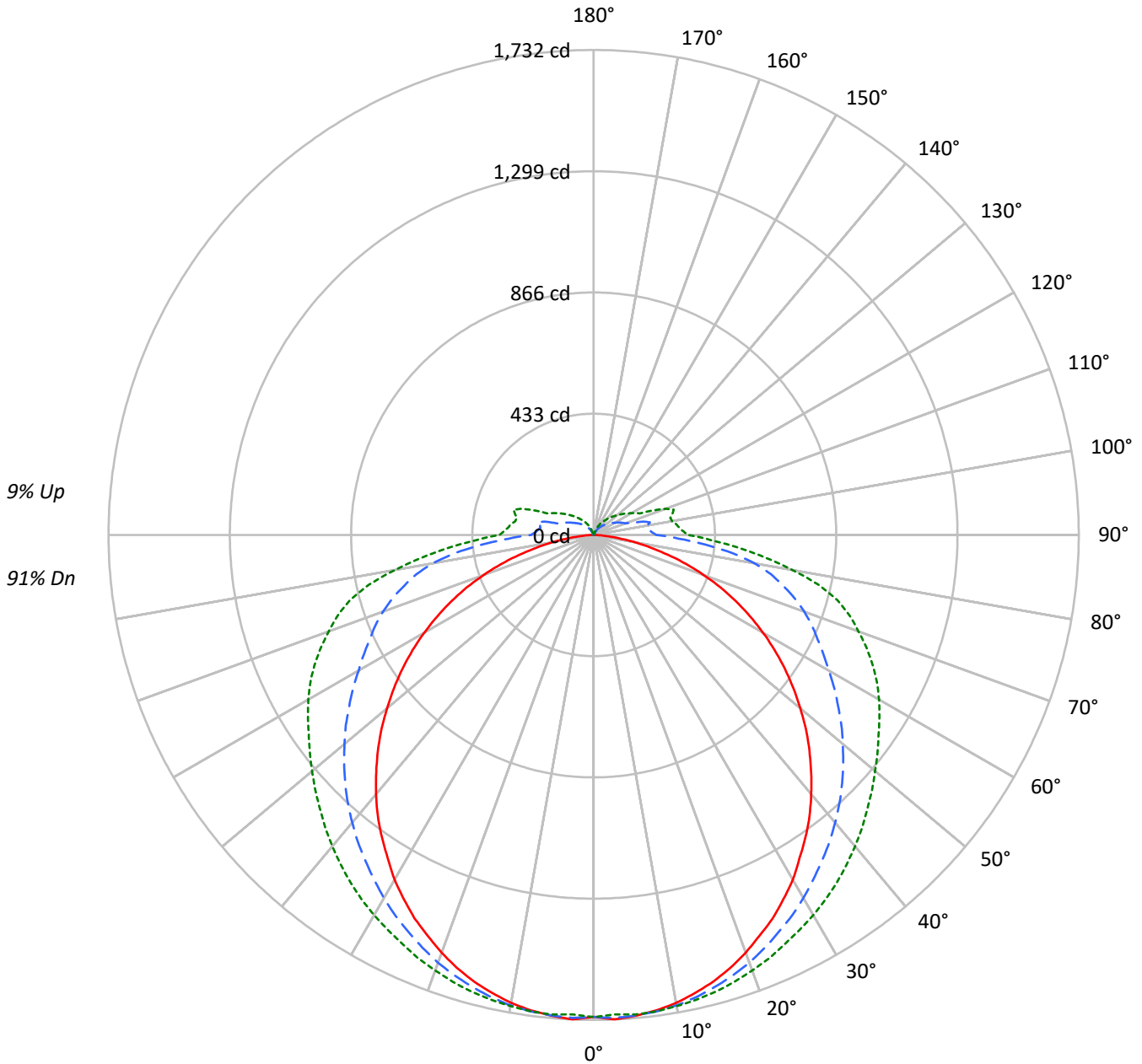
Input Watts (W): 39.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4633	4633	4633
5°	4658	4654	4643
10°	4638	4662	4669
15°	4600	4657	4703
20°	4545	4655	4739
25°	4488	4644	4789
30°	4419	4653	4872
35°	4331	4667	4974
40°	4245	4712	5099
45°	4145	4774	5261
50°	4030	4860	5493
55°	3909	4997	5825
60°	3754	5215	6331
65°	3562	5615	7001
70°	3283	6294	7916
75°	2848	7280	9369
80°	2281	9045	11167
85°	1383	12409	15926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	2.5
10°-20°	470.6	7.1
20°-30°	720.0	10.8
30°-40°	887.0	13.3
40°-50°	959.9	14.4
50°-60°	942.1	14.2
60°-70°	850.1	12.8
70°-80°	681.8	10.3
80°-90°	389.4	5.9
90°-100°	198.2	3.0
100°-110°	165.8	2.5
110°-120°	100.4	1.5
120°-130°	62.5	0.9
130°-140°	35.1	0.5
140°-150°	16.7	0.3
150°-160°	4.0	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1354.0	20.4
0°-40°	2241.0	33.7
0°-60°	4142.9	62.3
0°-90°	6064.2	91.2
90°-120°	464.3	7.0
90°-150°	578.6	8.7
90°-180°	583.0	8.8
0°-180°	6646.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1724	1711	1723	1714	1719	164
15°	1651	1649	1672	1678	1688	465
25°	1512	1523	1564	1592	1613	696
35°	1318	1348	1421	1480	1514	825
45°	1089	1142	1254	1338	1382	840
55°	833	919	1065	1184	1242	744
65°	559	684	882	1039	1100	553
75°	274	461	700	847	901	293
85°	45	259	402	485	516	59
90°	0	108	224	306	337	2
95°	0	92	200	276	306	0
105°	0	51	184	273	291	0
115°	0	33	104	160	182	0
125°	0	23	73	115	132	0
135°	0	4	49	79	91	0
145°	0	0	27	50	58	1
155°	1	0	0	17	28	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1721.6	1721.6	1721.6	1721.6	1721.6
2.5°	1731.8	1716.5	1726.7	1717.8	1713.9
5°	1724.2	1711.4	1722.9	1713.9	1719.0
7.5°	1712.6	1702.4	1716.5	1710.1	1716.5
10°	1697.3	1688.3	1706.2	1701.1	1708.8
12.5°	1675.5	1670.4	1690.9	1690.9	1699.8
15°	1651.2	1648.6	1671.7	1678.1	1688.3
17.5°	1621.8	1623.0	1649.9	1661.4	1673.0
20°	1587.2	1593.6	1625.6	1638.4	1655.0
22.5°	1548.8	1560.3	1596.2	1614.1	1637.1
25°	1511.7	1523.2	1564.2	1592.3	1612.8
27.5°	1466.9	1483.5	1533.4	1568.0	1591.0
30°	1422.1	1440.0	1497.6	1541.1	1568.0
32.5°	1368.3	1395.2	1459.2	1510.4	1542.4
35°	1318.4	1347.8	1420.8	1479.7	1514.2
37.5°	1265.9	1299.2	1382.4	1447.7	1483.5
40°	1208.3	1248.0	1341.4	1411.8	1451.5
42.5°	1149.4	1195.5	1299.2	1374.7	1418.2
45°	1089.3	1141.8	1254.4	1337.6	1382.4
47.5°	1027.8	1089.3	1208.3	1300.5	1347.8
50°	962.6	1034.2	1161.0	1260.8	1312.0
52.5°	898.6	977.9	1114.9	1222.4	1277.4
55°	833.3	919.0	1065.0	1184.0	1241.6
57.5°	766.7	861.4	1018.9	1146.9	1209.6
60°	697.6	802.6	969.0	1112.3	1176.3
62.5°	629.8	743.7	925.4	1079.0	1140.5
65°	559.4	683.5	881.9	1039.4	1099.5
67.5°	490.2	622.1	843.5	995.8	1054.7
70°	417.3	564.5	800.0	947.2	1006.1
72.5°	346.9	509.4	752.6	899.8	958.7
75°	273.9	460.8	700.2	847.4	901.1
77.5°	208.6	422.4	647.7	778.2	821.8
80°	147.2	376.3	583.7	686.1	720.6
82.5°	90.9	322.6	499.2	586.2	618.2
85°	44.8	258.6	401.9	485.1	515.8
87.5°	12.8	179.2	304.6	385.3	418.6
90°	0.0	107.5	224.0	305.9	336.6
92.5°	0.0	94.7	208.6	288.0	318.7
95°	0.0	92.2	199.7	276.5	305.9
97.5°	0.0	96.0	192.0	265.0	297.0
100°	0.0	65.3	194.6	256.0	284.2
102.5°	0.0	57.6	206.1	258.6	280.3
105°	0.0	51.2	184.3	272.6	290.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	37.1	112.6	176.6	227.8
115°	0.0	33.3	103.7	160.0	181.8
117.5°	0.0	30.7	94.7	147.2	169.0
120°	0.0	28.2	87.0	135.7	154.9
122.5°	0.0	25.6	79.4	125.4	143.4
125°	0.0	23.0	73.0	115.2	131.8
127.5°	0.0	20.5	66.6	105.0	120.3
130°	0.0	16.6	61.4	96.0	110.1
132.5°	0.0	10.2	55.0	87.0	99.8
135°	0.0	3.8	48.6	79.4	90.9
137.5°	0.0	1.3	43.5	71.7	81.9
140°	0.0	0.0	37.1	64.0	74.2
142.5°	0.0	0.0	32.0	57.6	65.3
145°	0.0	0.0	26.9	49.9	57.6
147.5°	1.3	0.0	19.2	42.2	51.2
150°	1.3	0.0	10.2	35.8	43.5
152.5°	1.3	0.0	2.6	28.2	37.1
155°	1.3	0.0	0.0	16.6	28.2
157.5°	1.3	0.0	0.0	3.8	15.4
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	44.8	138.2	263.7	299.5
110°	0.0	41.0	121.6	229.1	272.6



(END OF REPORT)