

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: P544656

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

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544656
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-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: 7477.6 lumens
Efficiency: N/A
Efficacy: 155.8 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

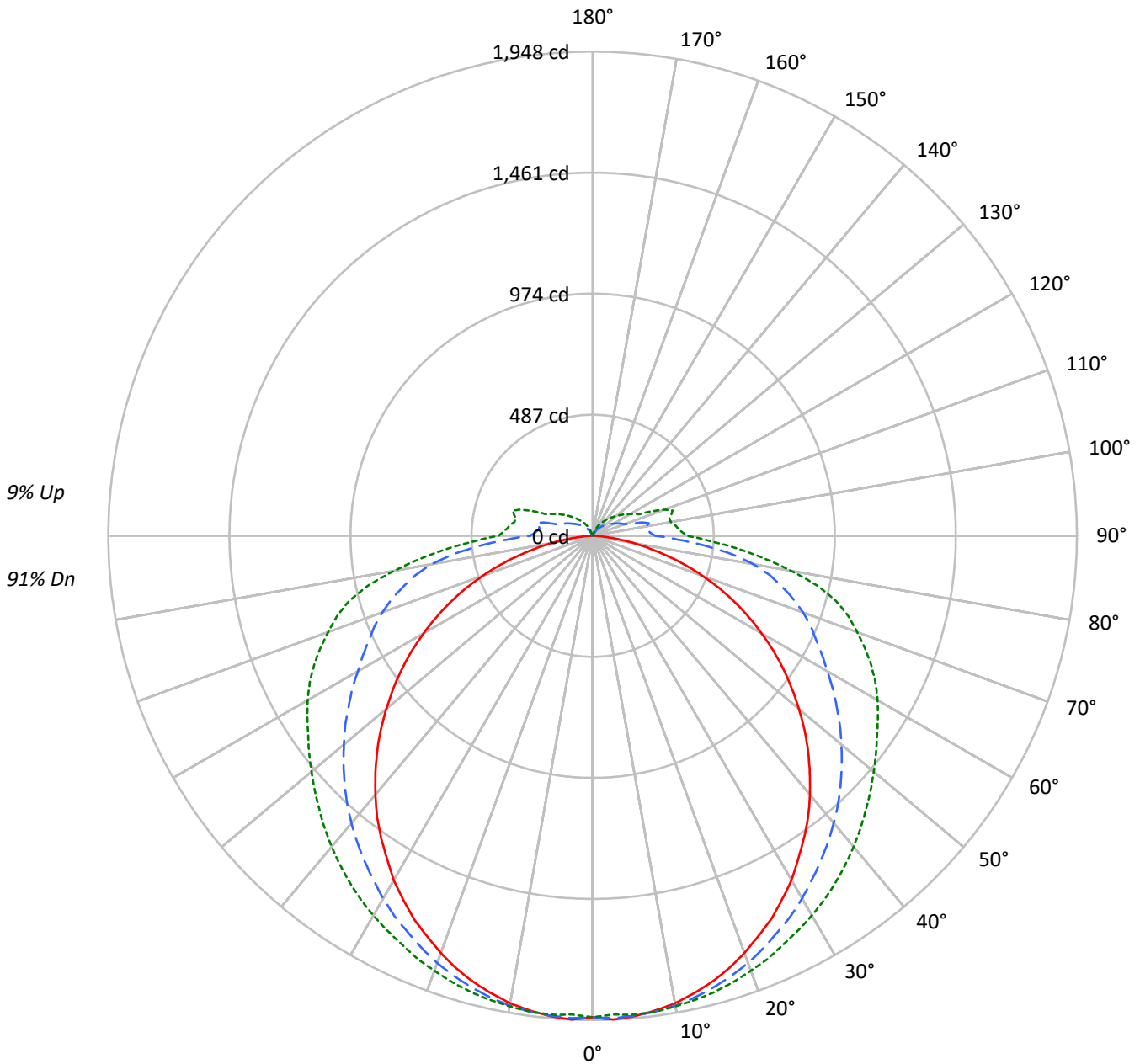
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P544656

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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°	5212	5212	5212
5°	5240	5236	5224
10°	5217	5245	5253
15°	5175	5239	5292
20°	5113	5237	5332
25°	5049	5225	5387
30°	4971	5235	5481
35°	4872	5251	5596
40°	4775	5301	5736
45°	4663	5370	5918
50°	4533	5468	6179
55°	4398	5621	6553
60°	4224	5867	7122
65°	4007	6318	7876
70°	3693	7081	8905
75°	3204	8190	10541
80°	2566	10175	12563
85°	1556	13962	17917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	2.5
10°-20°	529.4	7.1
20°-30°	809.9	10.8
30°-40°	997.9	13.3
40°-50°	1079.9	14.4
50°-60°	1059.9	14.2
60°-70°	956.4	12.8
70°-80°	767.1	10.3
80°-90°	438.0	5.9
90°-100°	222.9	3.0
100°-110°	186.5	2.5
110°-120°	112.9	1.5
120°-130°	70.3	0.9
130°-140°	39.5	0.5
140°-150°	18.7	0.3
150°-160°	4.5	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1523.2	20.4
0°-40°	2521.1	33.7
0°-60°	4660.8	62.3
0°-90°	6822.3	91.2
90°-120°	522.4	7.0
90°-150°	650.9	8.7
90°-180°	655.0	8.8
0°-180°	7477.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1940	1925	1938	1928	1934	184
15°	1858	1855	1881	1888	1899	524
25°	1701	1714	1760	1791	1814	783
35°	1483	1516	1598	1665	1704	928
45°	1225	1284	1411	1505	1555	945
55°	937	1034	1198	1332	1397	837
65°	629	769	992	1169	1237	622
75°	308	518	788	953	1014	330
85°	50	291	452	546	580	66
90°	0	121	252	344	379	2
95°	0	104	225	311	344	0
105°	0	58	207	307	327	0
115°	0	37	117	180	204	0
125°	0	26	82	130	148	0
135°	0	4	55	89	102	0
145°	0	0	30	56	65	1
155°	1	0	0	19	32	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P544656

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1936.8	1936.8	1936.8	1936.8	1936.8
2.5°	1948.3	1931.0	1942.6	1932.5	1928.2
5°	1939.7	1925.3	1938.2	1928.2	1933.9
7.5°	1926.7	1915.2	1931.0	1923.8	1931.0
10°	1909.4	1899.4	1919.5	1913.8	1922.4
12.5°	1885.0	1879.2	1902.2	1902.2	1912.3
15°	1857.6	1854.7	1880.6	1887.8	1899.4
17.5°	1824.5	1825.9	1856.2	1869.1	1882.1
20°	1785.6	1792.8	1828.8	1843.2	1861.9
22.5°	1742.4	1755.4	1795.7	1815.8	1841.8
25°	1700.6	1713.6	1759.7	1791.4	1814.4
27.5°	1650.2	1669.0	1725.1	1764.0	1789.9
30°	1599.8	1620.0	1684.8	1733.8	1764.0
32.5°	1539.4	1569.6	1641.6	1699.2	1735.2
35°	1483.2	1516.3	1598.4	1664.6	1703.5
37.5°	1424.2	1461.6	1555.2	1628.6	1669.0
40°	1359.4	1404.0	1509.1	1588.3	1633.0
42.5°	1293.1	1345.0	1461.6	1546.6	1595.5
45°	1225.4	1284.5	1411.2	1504.8	1555.2
47.5°	1156.3	1225.4	1359.4	1463.0	1516.3
50°	1082.9	1163.5	1306.1	1418.4	1476.0
52.5°	1010.9	1100.2	1254.2	1375.2	1437.1
55°	937.4	1033.9	1198.1	1332.0	1396.8
57.5°	862.6	969.1	1146.2	1290.2	1360.8
60°	784.8	902.9	1090.1	1251.4	1323.4
62.5°	708.5	836.6	1041.1	1213.9	1283.0
65°	629.3	769.0	992.2	1169.3	1237.0
67.5°	551.5	699.8	949.0	1120.3	1186.6
70°	469.4	635.0	900.0	1065.6	1131.8
72.5°	390.2	573.1	846.7	1012.3	1078.6
75°	308.2	518.4	787.7	953.3	1013.8
77.5°	234.7	475.2	728.6	875.5	924.5
80°	165.6	423.4	656.6	771.8	810.7
82.5°	102.2	362.9	561.6	659.5	695.5
85°	50.4	290.9	452.2	545.8	580.3
87.5°	14.4	201.6	342.7	433.4	470.9
90°	0.0	121.0	252.0	344.2	378.7
92.5°	0.0	106.6	234.7	324.0	358.6
95°	0.0	103.7	224.6	311.0	344.2
97.5°	0.0	108.0	216.0	298.1	334.1
100°	0.0	73.4	218.9	288.0	319.7
102.5°	0.0	64.8	231.8	290.9	315.4
105°	0.0	57.6	207.4	306.7	326.9



TEST NUMBER: P544656

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	41.8	126.7	198.7	256.3
115°	0.0	37.4	116.6	180.0	204.5
117.5°	0.0	34.6	106.6	165.6	190.1
120°	0.0	31.7	97.9	152.6	174.2
122.5°	0.0	28.8	89.3	141.1	161.3
125°	0.0	25.9	82.1	129.6	148.3
127.5°	0.0	23.0	74.9	118.1	135.4
130°	0.0	18.7	69.1	108.0	123.8
132.5°	0.0	11.5	61.9	97.9	112.3
135°	0.0	4.3	54.7	89.3	102.2
137.5°	0.0	1.4	49.0	80.6	92.2
140°	0.0	0.0	41.8	72.0	83.5
142.5°	0.0	0.0	36.0	64.8	73.4
145°	0.0	0.0	30.2	56.2	64.8
147.5°	1.4	0.0	21.6	47.5	57.6
150°	1.4	0.0	11.5	40.3	49.0
152.5°	1.4	0.0	2.9	31.7	41.8
155°	1.4	0.0	0.0	18.7	31.7
157.5°	1.4	0.0	0.0	4.3	17.3
160°	1.4	0.0	0.0	0.0	2.9
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	50.4	155.5	296.6	337.0
110°	0.0	46.1	136.8	257.8	306.7



(END OF REPORT)