

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: P544662

Luminaire Tested: **8TSLES-2-T8-3G-B850-U**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544662
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-T8-3G-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: 8723.9 lumens
Efficiency: N/A
Efficacy: 150.4 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

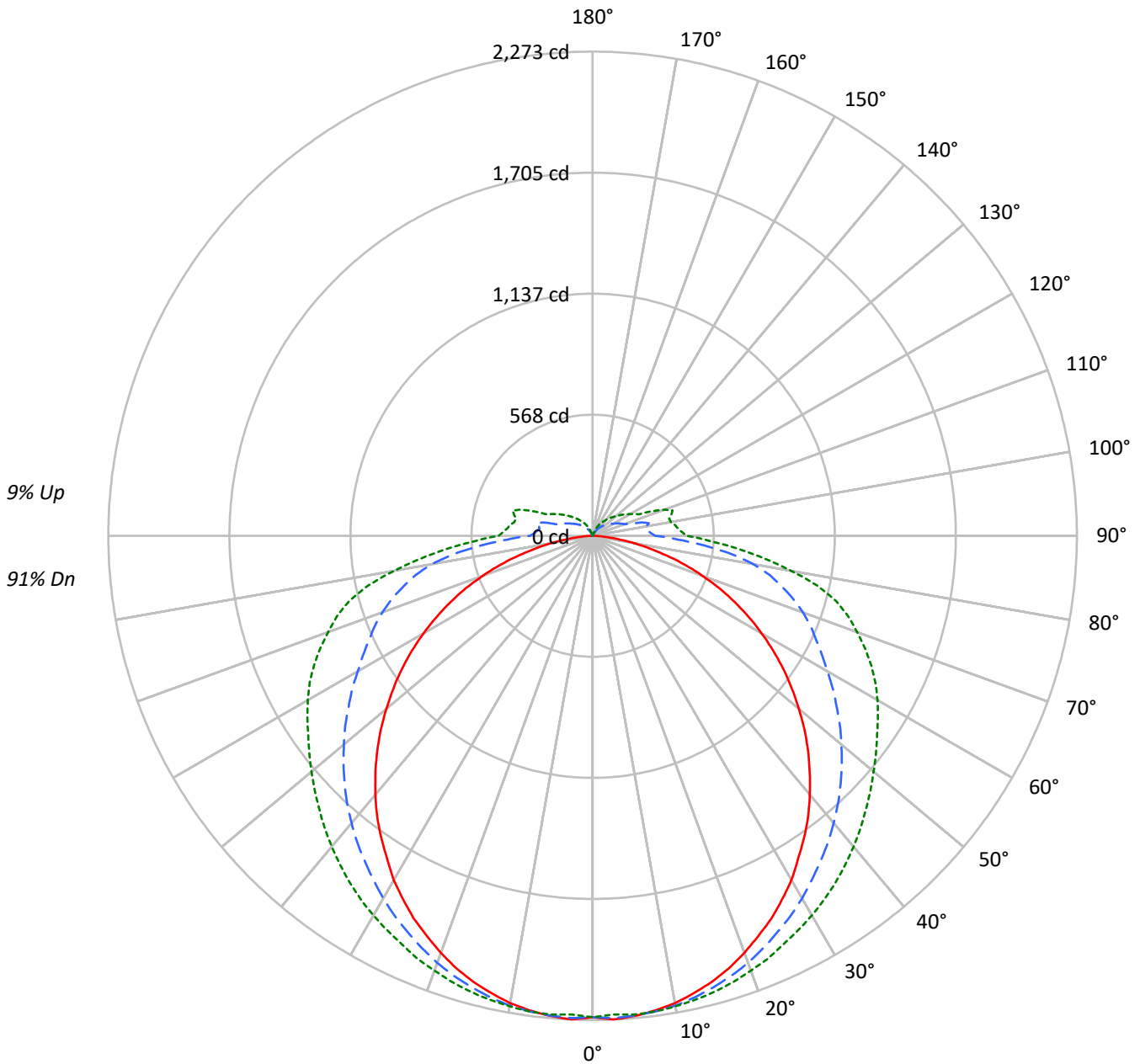
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6081	6081	6081
5°	6113	6108	6095
10°	6087	6119	6128
15°	6038	6113	6173
20°	5966	6110	6220
25°	5891	6096	6285
30°	5800	6108	6395
35°	5684	6126	6529
40°	5571	6185	6692
45°	5441	6266	6905
50°	5289	6379	7209
55°	5131	6558	7645
60°	4928	6845	8309
65°	4675	7370	9189
70°	4309	8261	10390
75°	3738	9555	12297
80°	2994	11872	14657
85°	1815	16287	20903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	2.5
10°-20°	617.7	7.1
20°-30°	944.9	10.8
30°-40°	1164.2	13.3
40°-50°	1259.8	14.4
50°-60°	1236.5	14.2
60°-70°	1115.8	12.8
70°-80°	894.9	10.3
80°-90°	511.0	5.9
90°-100°	260.1	3.0
100°-110°	217.6	2.5
110°-120°	131.8	1.5
120°-130°	82.0	0.9
130°-140°	46.1	0.5
140°-150°	21.9	0.3
150°-160°	5.2	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1777.1	20.4
0°-40°	2941.3	33.7
0°-60°	5437.6	62.3
0°-90°	7959.3	91.2
90°-120°	609.4	7.0
90°-150°	759.3	8.7
90°-180°	765.0	8.8
0°-180°	8723.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2263	2246	2261	2250	2256	215
15°	2167	2164	2194	2202	2216	611
25°	1984	1999	2053	2090	2117	913
35°	1730	1769	1865	1942	1987	1082
45°	1430	1499	1646	1756	1814	1103
55°	1094	1206	1398	1554	1630	977
65°	734	897	1158	1364	1443	726
75°	360	605	919	1112	1183	384
85°	59	339	528	637	677	77
90°	0	141	294	402	442	2
95°	0	121	262	363	402	0
105°	0	67	242	358	381	0
115°	0	44	136	210	239	0
125°	0	30	96	151	173	0
135°	0	5	64	104	119	0
145°	0	0	35	66	76	1
155°	2	0	0	22	37	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°	2259.6	2259.6	2259.6	2259.6	2259.6
2.5°	2273.0	2252.9	2266.3	2254.6	2249.5
5°	2263.0	2246.2	2261.3	2249.5	2256.2
7.5°	2247.8	2234.4	2252.9	2244.5	2252.9
10°	2227.7	2215.9	2239.4	2232.7	2242.8
12.5°	2199.1	2192.4	2219.3	2219.3	2231.0
15°	2167.2	2163.8	2194.1	2202.5	2215.9
17.5°	2128.6	2130.2	2165.5	2180.6	2195.8
20°	2083.2	2091.6	2133.6	2150.4	2172.2
22.5°	2032.8	2047.9	2095.0	2118.5	2148.7
25°	1984.1	1999.2	2053.0	2089.9	2116.8
27.5°	1925.3	1947.1	2012.6	2058.0	2088.2
30°	1866.5	1890.0	1965.6	2022.7	2058.0
32.5°	1795.9	1831.2	1915.2	1982.4	2024.4
35°	1730.4	1769.0	1864.8	1942.1	1987.4
37.5°	1661.5	1705.2	1814.4	1900.1	1947.1
40°	1585.9	1638.0	1760.6	1853.0	1905.1
42.5°	1508.6	1569.1	1705.2	1804.3	1861.4
45°	1429.7	1498.6	1646.4	1755.6	1814.4
47.5°	1349.0	1429.7	1585.9	1706.9	1769.0
50°	1263.4	1357.4	1523.8	1654.8	1722.0
52.5°	1179.4	1283.5	1463.3	1604.4	1676.6
55°	1093.7	1206.2	1397.8	1554.0	1629.6
57.5°	1006.3	1130.6	1337.3	1505.3	1587.6
60°	915.6	1053.4	1271.8	1459.9	1543.9
62.5°	826.6	976.1	1214.6	1416.2	1496.9
65°	734.2	897.1	1157.5	1364.2	1443.1
67.5°	643.4	816.5	1107.1	1307.0	1384.3
70°	547.7	740.9	1050.0	1243.2	1320.5
72.5°	455.3	668.6	987.8	1181.0	1258.3
75°	359.5	604.8	919.0	1112.2	1182.7
77.5°	273.8	554.4	850.1	1021.4	1078.6
80°	193.2	493.9	766.1	900.5	945.8
82.5°	119.3	423.4	655.2	769.4	811.4
85°	58.8	339.4	527.5	636.7	677.0
87.5°	16.8	235.2	399.8	505.7	549.4
90°	0.0	141.1	294.0	401.5	441.8
92.5°	0.0	124.3	273.8	378.0	418.3
95°	0.0	121.0	262.1	362.9	401.5
97.5°	0.0	126.0	252.0	347.8	389.8
100°	0.0	85.7	255.4	336.0	373.0
102.5°	0.0	75.6	270.5	339.4	367.9
105°	0.0	67.2	241.9	357.8	381.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	48.7	147.8	231.8	299.0
115°	0.0	43.7	136.1	210.0	238.6
117.5°	0.0	40.3	124.3	193.2	221.8
120°	0.0	37.0	114.2	178.1	203.3
122.5°	0.0	33.6	104.2	164.6	188.2
125°	0.0	30.2	95.8	151.2	173.0
127.5°	0.0	26.9	87.4	137.8	157.9
130°	0.0	21.8	80.6	126.0	144.5
132.5°	0.0	13.4	72.2	114.2	131.0
135°	0.0	5.0	63.8	104.2	119.3
137.5°	0.0	1.7	57.1	94.1	107.5
140°	0.0	0.0	48.7	84.0	97.4
142.5°	0.0	0.0	42.0	75.6	85.7
145°	0.0	0.0	35.3	65.5	75.6
147.5°	1.7	0.0	25.2	55.4	67.2
150°	1.7	0.0	13.4	47.0	57.1
152.5°	1.7	0.0	3.4	37.0	48.7
155°	1.7	0.0	0.0	21.8	37.0
157.5°	1.7	0.0	0.0	5.0	20.2
160°	1.7	0.0	0.0	0.0	3.4
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



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







107.5°	0.0	58.8	181.4	346.1	393.1
110°	0.0	53.8	159.6	300.7	357.8



(END OF REPORT)