

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: P544634

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

Issue Date: 7/2/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P544634  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-256-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/2/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8TSLES-1-T8-2G-B835-U  
Description: 80CRI 3500K TLED Strip  
Light Source: MainsFit Glass TLED - (2) 4FT 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3626.0 lumens  
Efficiency: N/A  
Efficacy: 151.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.35 / 1.44  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct

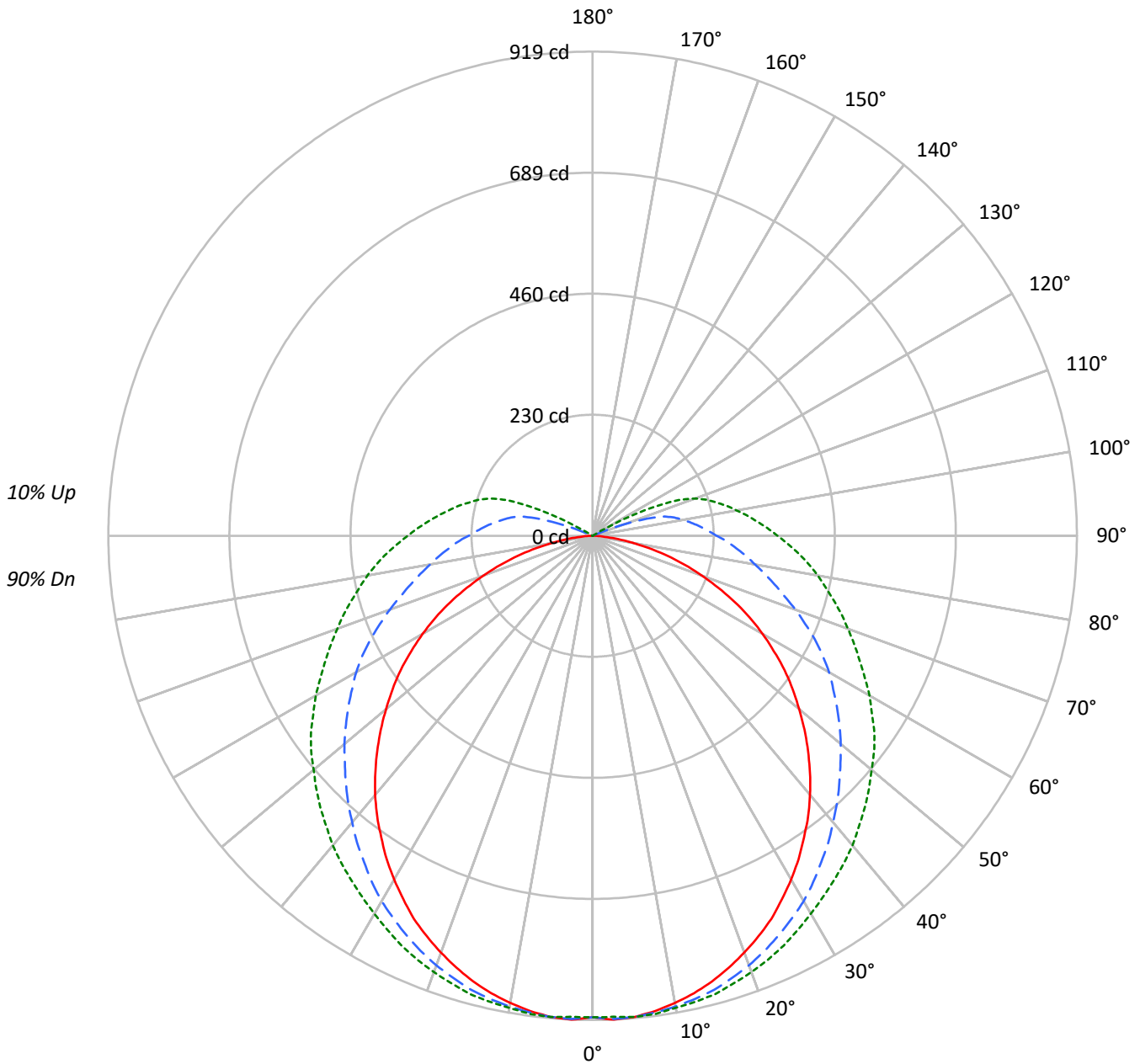
Input Watts (W): 24  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P544634

CATALOG NUMBER: 8TSLES-1-T8-2G-B835-U

### Luminous Intensity Polar Plot





TEST NUMBER: P544634

CATALOG NUMBER: 8TSLES-1-T8-2G-B835-U

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

RF	20				20				20				20				20				20
RC	80				70				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	105	105	105	99	99	99	93	93	93	93	93	93	90
1	103	97	92	87	100	94	89	85	88	84	80	82	79	76	77	74	72	72	72	72	69
2	93	83	76	69	89	81	73	67	75	69	64	70	65	61	66	62	58	58	58	55	55
3	84	72	63	56	81	70	62	55	66	58	53	61	55	50	57	53	48	48	48	45	45
4	77	64	54	47	74	62	53	46	58	50	44	54	48	43	51	45	41	41	41	38	38
5	70	57	47	40	67	55	46	39	52	44	38	48	42	36	46	40	35	35	35	33	33
6	65	51	41	35	62	49	40	34	46	39	33	44	37	32	41	35	31	31	31	28	28
7	60	46	37	30	58	45	36	30	42	34	29	40	33	28	37	32	27	27	27	25	25
8	56	42	33	27	54	41	32	26	38	31	26	36	30	25	34	28	24	24	24	22	22
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	32	26	22	22	22	20	20
10	49	35	27	22	47	34	27	21	33	26	21	31	25	20	29	24	20	20	20	18	18

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

	0°	45°	90°
0°	2459	2459	2459
5°	2476	2476	2476
10°	2460	2479	2486
15°	2440	2486	2508
20°	2411	2485	2524
25°	2382	2483	2548
30°	2341	2489	2573
35°	2296	2484	2622
40°	2255	2494	2694
45°	2200	2520	2779
50°	2141	2573	2892
55°	2086	2654	3063
60°	2005	2789	3265
65°	1896	2961	3559
70°	1733	3221	4055
75°	1527	3719	4921
80°	1201	4847	6722
85°	713	8441	12134



TEST NUMBER: P544634

CATALOG NUMBER: 8TSLES-1-T8-2G-B835-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.7	2.4
10°-20°	249.7	6.9
20°-30°	381.7	10.5
30°-40°	468.5	12.9
40°-50°	505.8	14.0
50°-60°	495.8	13.7
60°-70°	441.5	12.2
70°-80°	358.3	9.9
80°-90°	270.4	7.5
90°-100°	198.8	5.5
100°-110°	127.3	3.5
110°-120°	41.0	1.1
120°-130°	0.4	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	718.1	19.8
0°-40°	1186.6	32.7
0°-60°	2188.2	60.3
0°-90°	3258.4	89.9
90°-120°	367.1	10.1
90°-150°	367.5	10.1
90°-180°	368.0	10.1
0°-180°	3626.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	917	908	917	904	917	87
15°	876	874	892	885	900	247
25°	802	809	836	838	858	369
35°	699	713	756	772	798	438
45°	578	601	662	702	730	446
55°	445	480	566	623	653	397
65°	298	359	465	529	559	294
75°	147	248	358	441	473	155
85°	23	141	273	363	393	31
90°	0	109	235	322	351	1
95°	0	83	204	286	313	0
105°	0	0	141	220	243	0
115°	0	0	0	90	133	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P544634

CATALOG NUMBER: 8TSLES-1-T8-2G-B835-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	913.9	913.9	913.9	913.9	913.9
2.5°	919.4	911.2	918.0	907.1	913.9
5°	916.6	908.5	916.6	904.4	916.6
7.5°	909.8	903.0	912.6	901.7	915.3
10°	900.3	894.9	907.1	897.6	909.8
12.5°	889.4	885.4	900.3	890.8	905.8
15°	875.8	874.5	892.2	885.4	900.3
17.5°	859.5	859.5	879.9	875.8	890.8
20°	841.8	844.6	867.7	863.6	881.3
22.5°	822.8	826.9	852.7	850.0	870.4
25°	802.4	809.2	836.4	837.8	858.2
27.5°	777.9	786.1	818.7	822.8	843.2
30°	753.4	764.3	801.0	806.5	828.2
32.5°	727.6	738.5	779.3	790.2	813.3
35°	699.0	712.6	756.2	772.5	798.3
37.5°	671.8	686.8	734.4	756.2	783.4
40°	641.9	658.2	709.9	738.5	767.0
42.5°	610.6	631.0	686.8	720.8	748.0
45°	578.0	601.1	662.3	701.8	730.3
47.5°	545.4	571.2	637.8	682.7	711.3
50°	511.4	539.9	614.7	662.3	690.9
52.5°	478.7	511.4	590.2	641.9	673.2
55°	444.7	480.1	565.8	622.9	652.8
57.5°	408.0	448.8	541.3	601.1	628.3
60°	372.6	418.9	518.2	578.0	606.6
62.5°	335.9	387.6	492.3	553.5	582.1
65°	297.8	359.0	465.1	529.0	559.0
67.5°	258.4	330.5	436.6	505.9	537.2
70°	220.3	300.6	409.4	484.2	515.4
72.5°	183.6	273.4	382.2	462.4	495.0
75°	146.9	247.5	357.7	440.6	473.3
77.5°	110.2	214.9	334.6	421.6	452.9
80°	77.5	185.0	312.8	402.6	433.8
82.5°	49.0	160.5	293.8	383.5	413.4
85°	23.1	141.4	273.4	363.1	393.0
87.5°	8.2	125.1	255.7	342.7	371.3
90°	0.0	108.8	235.3	322.3	350.9
92.5°	0.0	95.2	219.0	303.3	331.8
95°	0.0	83.0	204.0	285.6	312.8
97.5°	0.0	70.7	189.0	267.9	295.1
100°	0.0	47.6	174.1	251.6	277.4
102.5°	0.0	10.9	159.1	235.3	261.1
105°	0.0	0.0	141.4	220.3	243.4



TEST NUMBER: P544634

CATALOG NUMBER: 8TSLES-1-T8-2G-B835-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	15.0	138.7	176.8
115°	0.0	0.0	0.0	89.8	133.3
117.5°	0.0	0.0	0.0	35.4	78.9
120°	0.0	0.0	0.0	1.4	24.5
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
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	0.0	108.8	202.6	227.1
110°	0.0	0.0	62.6	178.2	206.7



(END OF REPORT)