

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: P544644

Luminaire Tested: **8TSLES-1-T8-3G-B850-U**

Issue Date: 7/2/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P544644  
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-T8-3G-B850-U  
Description: 80CRI 5000K TLED Strip  
Light Source: MainsFit Glass TLED - (2) 4FT 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4479.2 lumens  
Efficiency: N/A  
Efficacy: 154.5 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

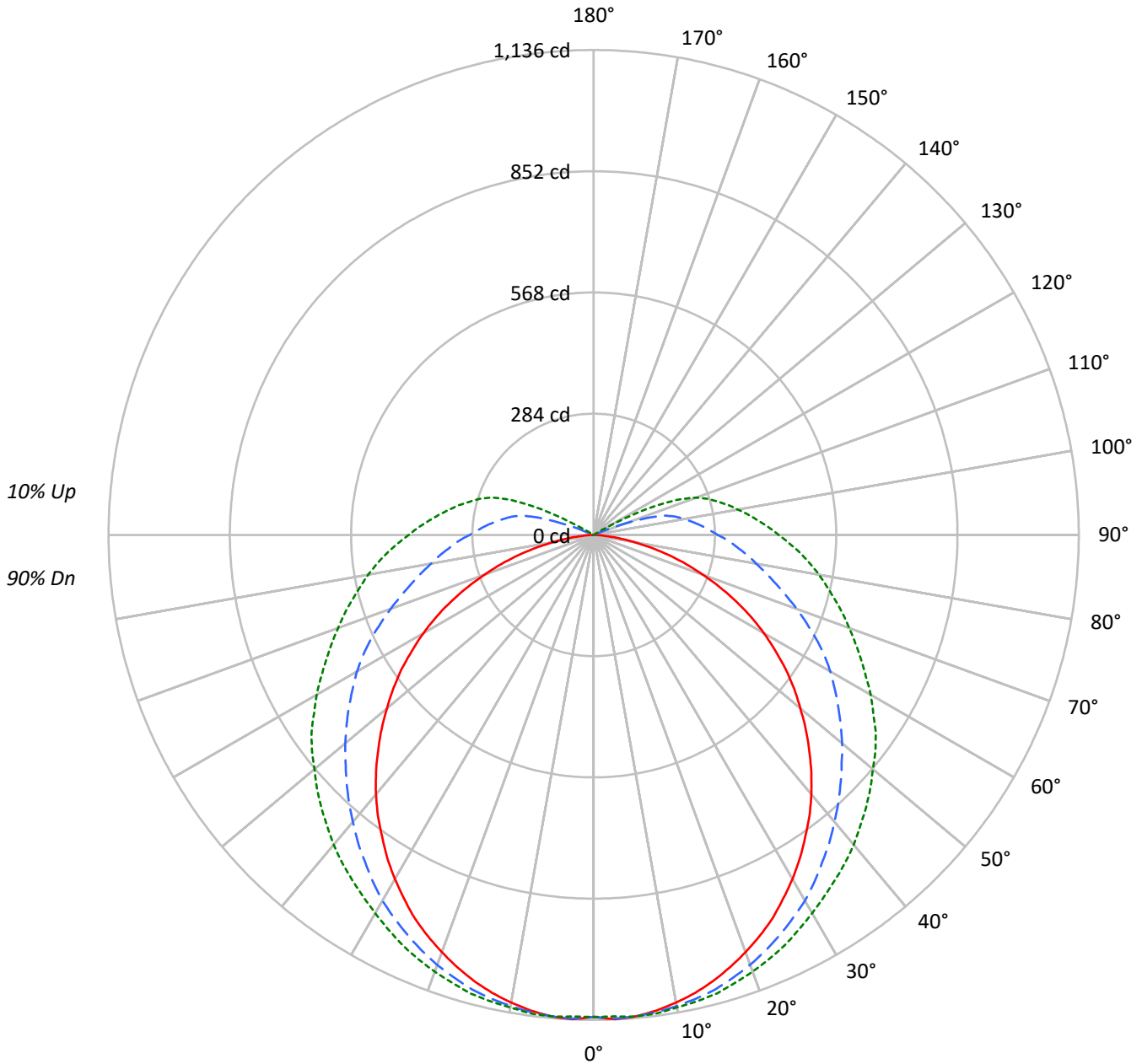
Input Watts (W): 29  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	3038	3038	3038
5°	3059	3059	3059
10°	3039	3062	3071
15°	3014	3070	3098
20°	2978	3069	3117
25°	2943	3068	3148
30°	2892	3075	3179
35°	2837	3069	3240
40°	2786	3081	3328
45°	2717	3114	3433
50°	2645	3179	3573
55°	2578	3279	3783
60°	2477	3445	4033
65°	2343	3659	4397
70°	2142	3979	5009
75°	1886	4593	6078
80°	1485	5988	8305
85°	883	10427	14990



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.1	2.4
10°-20°	308.4	6.9
20°-30°	471.6	10.5
30°-40°	578.8	12.9
40°-50°	624.9	14.0
50°-60°	612.4	13.7
60°-70°	545.4	12.2
70°-80°	442.6	9.9
80°-90°	334.1	7.5
90°-100°	245.6	5.5
100°-110°	157.3	3.5
110°-120°	50.6	1.1
120°-130°	0.5	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°	887.0	19.8
0°-40°	1465.8	32.7
0°-60°	2703.1	60.3
0°-90°	4025.1	89.9
90°-120°	453.5	10.1
90°-150°	454.0	10.1
90°-180°	454.0	10.1
0°-180°	4479.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1129	1129	1129	1129	1129	
5°	1132	1122	1132	1117	1132	107
15°	1082	1080	1102	1094	1112	305
25°	991	1000	1033	1035	1060	456
35°	864	880	934	954	986	541
45°	714	743	818	867	902	551
55°	549	593	699	769	806	490
65°	368	444	575	654	690	363
75°	181	306	442	544	585	192
85°	29	175	338	449	486	39
90°	0	134	291	398	433	1
95°	0	102	252	353	386	0
105°	0	0	175	272	301	0
115°	0	0	0	111	165	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1129.0	1129.0	1129.0	1129.0	1129.0
2.5°	1135.7	1125.6	1134.0	1120.6	1129.0
5°	1132.3	1122.2	1132.3	1117.2	1132.3
7.5°	1123.9	1115.5	1127.3	1113.8	1130.6
10°	1112.2	1105.4	1120.6	1108.8	1123.9
12.5°	1098.7	1093.7	1112.2	1100.4	1118.9
15°	1081.9	1080.2	1102.1	1093.7	1112.2
17.5°	1061.8	1061.8	1087.0	1081.9	1100.4
20°	1039.9	1043.3	1071.8	1066.8	1088.6
22.5°	1016.4	1021.4	1053.4	1050.0	1075.2
25°	991.2	999.6	1033.2	1034.9	1060.1
27.5°	961.0	971.0	1011.4	1016.4	1041.6
30°	930.7	944.2	989.5	996.2	1023.1
32.5°	898.8	912.2	962.6	976.1	1004.6
35°	863.5	880.3	934.1	954.2	986.2
37.5°	829.9	848.4	907.2	934.1	967.7
40°	793.0	813.1	877.0	912.2	947.5
42.5°	754.3	779.5	848.4	890.4	924.0
45°	714.0	742.6	818.2	866.9	902.2
47.5°	673.7	705.6	787.9	843.4	878.6
50°	631.7	667.0	759.4	818.2	853.4
52.5°	591.4	631.7	729.1	793.0	831.6
55°	549.4	593.0	698.9	769.4	806.4
57.5°	504.0	554.4	668.6	742.6	776.2
60°	460.3	517.4	640.1	714.0	749.3
62.5°	415.0	478.8	608.2	683.8	719.0
65°	367.9	443.5	574.6	653.5	690.5
67.5°	319.2	408.2	539.3	625.0	663.6
70°	272.2	371.3	505.7	598.1	636.7
72.5°	226.8	337.7	472.1	571.2	611.5
75°	181.4	305.8	441.8	544.3	584.6
77.5°	136.1	265.4	413.3	520.8	559.4
80°	95.8	228.5	386.4	497.3	535.9
82.5°	60.5	198.2	362.9	473.8	510.7
85°	28.6	174.7	337.7	448.6	485.5
87.5°	10.1	154.6	315.8	423.4	458.6
90°	0.0	134.4	290.6	398.2	433.4
92.5°	0.0	117.6	270.5	374.6	409.9
95°	0.0	102.5	252.0	352.8	386.4
97.5°	0.0	87.4	233.5	331.0	364.6
100°	0.0	58.8	215.0	310.8	342.7
102.5°	0.0	13.4	196.6	290.6	322.6
105°	0.0	0.0	174.7	272.2	300.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	18.5	171.4	218.4
115°	0.0	0.0	0.0	110.9	164.6
117.5°	0.0	0.0	0.0	43.7	97.4
120°	0.0	0.0	0.0	1.7	30.2
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	134.4	250.3	280.6
110°	0.0	0.0	77.3	220.1	255.4



(END OF REPORT)