

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: P544632

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

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544632
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-T8-1G-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: 3519.3 lumens
Efficiency: N/A
Efficacy: 177.7 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

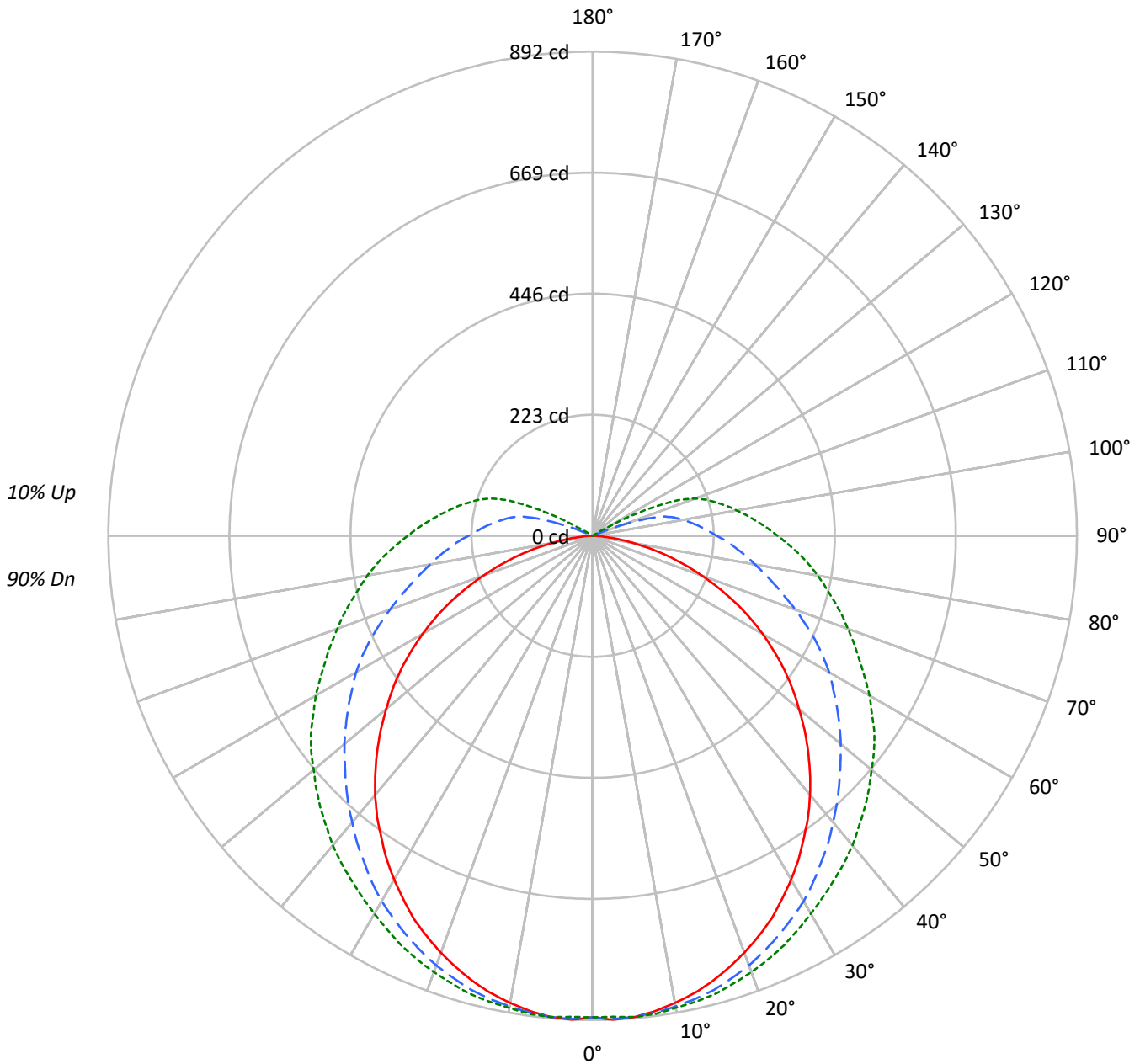
Input Watts (W): 19.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P544632

CATALOG NUMBER: 8TSLES-1-T8-1G-B850-U

Luminous Intensity Polar Plot





TEST NUMBER: P544632

CATALOG NUMBER: 8TSLES-1-T8-1G-B850-U

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	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°	2387	2387	2387
5°	2403	2403	2403
10°	2388	2406	2413
15°	2368	2412	2434
20°	2340	2412	2450
25°	2312	2410	2473
30°	2272	2416	2498
35°	2229	2411	2545
40°	2188	2420	2615
45°	2135	2446	2697
50°	2078	2498	2807
55°	2025	2576	2973
60°	1947	2707	3168
65°	1841	2874	3454
70°	1682	3126	3936
75°	1483	3610	4776
80°	1165	4705	6526
85°	692	8191	11779



TEST NUMBER: P544632

CATALOG NUMBER: 8TSLES-1-T8-1G-B850-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	2.4
10°-20°	242.3	6.9
20°-30°	370.5	10.5
30°-40°	454.7	12.9
40°-50°	490.9	14.0
50°-60°	481.2	13.7
60°-70°	428.5	12.2
70°-80°	347.7	9.9
80°-90°	262.5	7.5
90°-100°	193.0	5.5
100°-110°	123.6	3.5
110°-120°	39.8	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°	697.0	19.8
0°-40°	1151.7	32.7
0°-60°	2123.8	60.3
0°-90°	3162.6	89.9
90°-120°	356.3	10.1
90°-150°	356.7	10.1
90°-180°	357.0	10.1
0°-180°	3519.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	890	882	890	878	890	84
15°	850	849	866	859	874	240
25°	779	785	812	813	833	358
35°	678	692	734	750	775	425
45°	561	583	643	681	709	433
55°	432	466	549	605	634	385
65°	289	348	451	514	542	285
75°	143	240	347	428	459	151
85°	22	137	265	352	382	30
90°	0	106	228	313	341	1
95°	0	80	198	277	304	0
105°	0	0	137	214	236	0
115°	0	0	0	87	129	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: P544632

CATALOG NUMBER: 8TSLES-1-T8-1G-B850-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.0	887.0	887.0	887.0	887.0
2.5°	892.3	884.4	891.0	880.4	887.0
5°	889.7	881.8	889.7	877.8	889.7
7.5°	883.1	876.5	885.7	875.2	888.4
10°	873.8	868.6	880.4	871.2	883.1
12.5°	863.3	859.3	873.8	864.6	879.1
15°	850.1	848.8	865.9	859.3	873.8
17.5°	834.2	834.2	854.0	850.1	864.6
20°	817.1	819.7	842.2	838.2	855.4
22.5°	798.6	802.6	827.6	825.0	844.8
25°	778.8	785.4	811.8	813.1	832.9
27.5°	755.0	763.0	794.6	798.6	818.4
30°	731.3	741.8	777.5	782.8	803.9
32.5°	706.2	716.8	756.4	766.9	789.4
35°	678.5	691.7	733.9	749.8	774.8
37.5°	652.1	666.6	712.8	733.9	760.3
40°	623.0	638.9	689.0	716.8	744.5
42.5°	592.7	612.5	666.6	699.6	726.0
45°	561.0	583.4	642.8	681.1	708.8
47.5°	529.3	554.4	619.1	662.6	690.4
50°	496.3	524.0	596.6	642.8	670.6
52.5°	464.6	496.3	572.9	623.0	653.4
55°	431.6	466.0	549.1	604.6	633.6
57.5°	396.0	435.6	525.4	583.4	609.8
60°	361.7	406.6	502.9	561.0	588.7
62.5°	326.0	376.2	477.8	537.2	565.0
65°	289.1	348.5	451.4	513.5	542.5
67.5°	250.8	320.8	423.7	491.0	521.4
70°	213.8	291.7	397.3	469.9	500.3
72.5°	178.2	265.3	370.9	448.8	480.5
75°	142.6	240.2	347.2	427.7	459.4
77.5°	106.9	208.6	324.7	409.2	439.6
80°	75.2	179.5	303.6	390.7	421.1
82.5°	47.5	155.8	285.1	372.2	401.3
85°	22.4	137.3	265.3	352.4	381.5
87.5°	7.9	121.4	248.2	332.6	360.4
90°	0.0	105.6	228.4	312.8	340.6
92.5°	0.0	92.4	212.5	294.4	322.1
95°	0.0	80.5	198.0	277.2	303.6
97.5°	0.0	68.6	183.5	260.0	286.4
100°	0.0	46.2	169.0	244.2	269.3
102.5°	0.0	10.6	154.4	228.4	253.4
105°	0.0	0.0	137.3	213.8	236.3



TEST NUMBER: P544632

CATALOG NUMBER: 8TSLES-1-T8-1G-B850-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	14.5	134.6	171.6
115°	0.0	0.0	0.0	87.1	129.4
117.5°	0.0	0.0	0.0	34.3	76.6
120°	0.0	0.0	0.0	1.3	23.8
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	105.6	196.7	220.4
110°	0.0	0.0	60.7	172.9	200.6



(END OF REPORT)