

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: P544628

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

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544628
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-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: 3412.7 lumens
Efficiency: N/A
Efficacy: 172.4 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

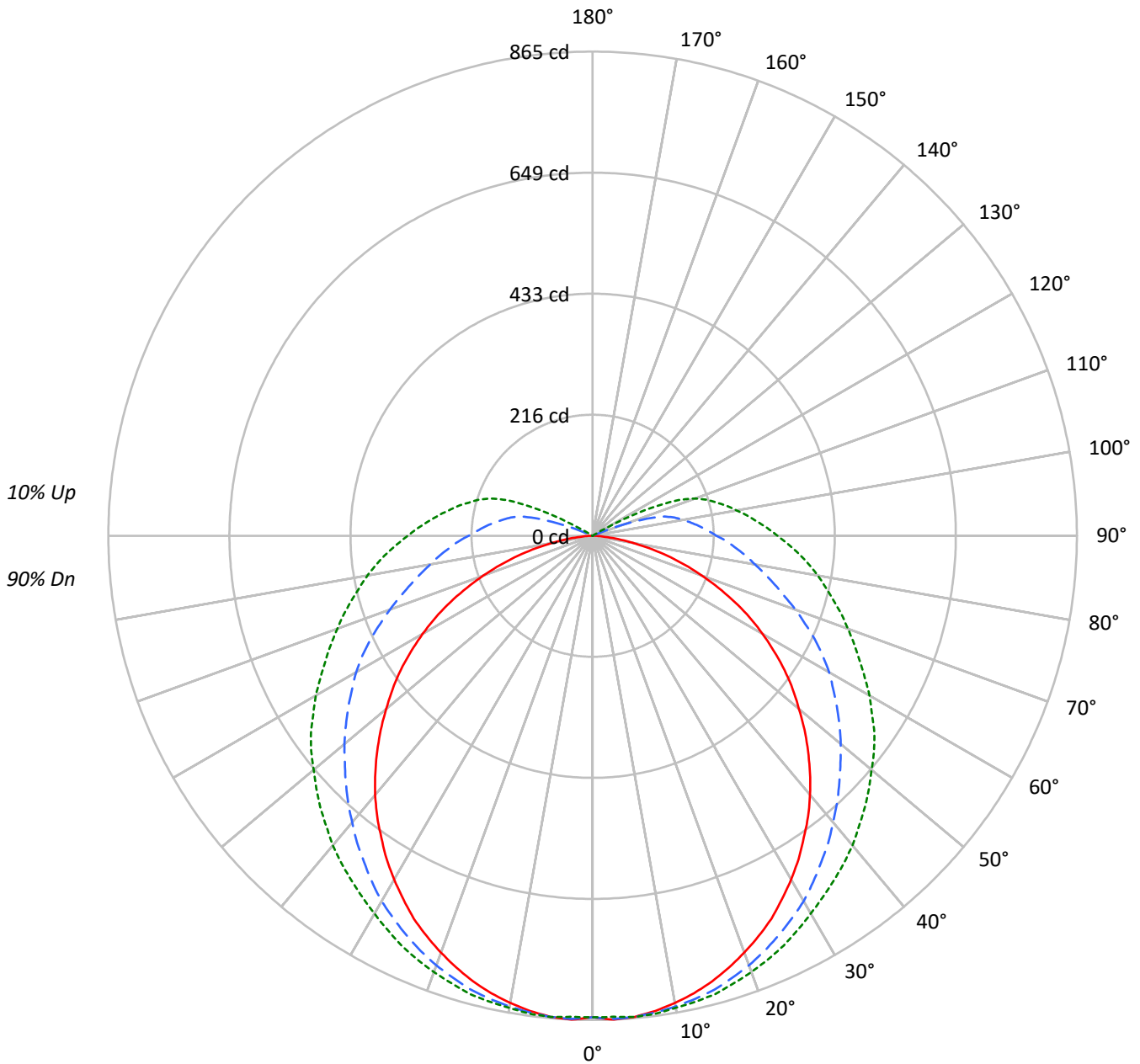
Input Watts (W): 19.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P544628

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

Luminous Intensity Polar Plot





TEST NUMBER: P544628

CATALOG NUMBER: 8TSLES-1-T8-1G-B835-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	90																			
1	103	97	92	87	100	94	89	85	88	84	80	82	79	76	77	74	72	69																			
2	93	83	76	69	89	81	73	67	75	69	64	70	65	61	66	62	58	55																			
3	84	72	63	56	81	70	62	55	66	58	53	61	55	50	57	53	48	45																			
4	77	64	54	47	74	62	53	46	58	50	44	54	48	43	51	45	41	38																			
5	70	57	47	40	67	55	46	39	52	44	38	48	42	36	46	40	35	33																			
6	65	51	41	35	62	49	40	34	46	39	33	44	37	32	41	35	31	28																			
7	60	46	37	30	58	45	36	30	42	34	29	40	33	28	37	32	27	25																			
8	56	42	33	27	54	41	32	26	38	31	26	36	30	25	34	28	24	22																			
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	32	26	22	20																			
10	49	35	27	22	47	34	27	21	33	26	21	31	25	20	29	24	20	18																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2315	2315	2315
5°	2330	2330	2330
10°	2316	2333	2340
15°	2296	2339	2361
20°	2269	2338	2375
25°	2242	2337	2398
30°	2203	2343	2422
35°	2161	2338	2468
40°	2122	2347	2536
45°	2070	2372	2616
50°	2015	2422	2722
55°	1964	2498	2883
60°	1887	2625	3073
65°	1785	2788	3350
70°	1632	3032	3817
75°	1437	3500	4631
80°	1131	4562	6327
85°	673	7944	11421



TEST NUMBER: P544628

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	2.4
10°-20°	235.0	6.9
20°-30°	359.3	10.5
30°-40°	441.0	12.9
40°-50°	476.1	14.0
50°-60°	466.6	13.7
60°-70°	415.6	12.2
70°-80°	337.2	9.9
80°-90°	254.5	7.5
90°-100°	187.1	5.5
100°-110°	119.9	3.5
110°-120°	38.6	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°	675.8	19.8
0°-40°	1116.8	32.7
0°-60°	2059.5	60.3
0°-90°	3066.8	89.9
90°-120°	345.6	10.1
90°-150°	345.9	10.1
90°-180°	346.0	10.1
0°-180°	3412.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	863	855	863	851	863	82
15°	824	823	840	833	847	232
25°	755	762	787	788	808	347
35°	658	671	712	727	751	412
45°	544	566	623	660	687	420
55°	419	452	532	586	614	373
65°	280	338	438	498	526	277
75°	138	233	337	415	445	146
85°	22	133	257	342	370	29
90°	0	102	221	303	330	1
95°	0	78	192	269	294	0
105°	0	0	133	207	229	0
115°	0	0	0	84	125	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: P544628

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	860.2	860.2	860.2	860.2	860.2
2.5°	865.3	857.6	864.0	853.8	860.2
5°	862.7	855.0	862.7	851.2	862.7
7.5°	856.3	849.9	858.9	848.6	861.4
10°	847.4	842.2	853.8	844.8	856.3
12.5°	837.1	833.3	847.4	838.4	852.5
15°	824.3	823.0	839.7	833.3	847.4
17.5°	809.0	809.0	828.2	824.3	838.4
20°	792.3	794.9	816.6	812.8	829.4
22.5°	774.4	778.2	802.6	800.0	819.2
25°	755.2	761.6	787.2	788.5	807.7
27.5°	732.2	739.8	770.6	774.4	793.6
30°	709.1	719.4	753.9	759.0	779.5
32.5°	684.8	695.0	733.4	743.7	765.4
35°	657.9	670.7	711.7	727.0	751.4
37.5°	632.3	646.4	691.2	711.7	737.3
40°	604.2	619.5	668.2	695.0	721.9
42.5°	574.7	593.9	646.4	678.4	704.0
45°	544.0	565.8	623.4	660.5	687.4
47.5°	513.3	537.6	600.3	642.6	669.4
50°	481.3	508.2	578.6	623.4	650.2
52.5°	450.6	481.3	555.5	604.2	633.6
55°	418.6	451.8	532.5	586.2	614.4
57.5°	384.0	422.4	509.4	565.8	591.4
60°	350.7	394.2	487.7	544.0	570.9
62.5°	316.2	364.8	463.4	521.0	547.8
65°	280.3	337.9	437.8	497.9	526.1
67.5°	243.2	311.0	410.9	476.2	505.6
70°	207.4	282.9	385.3	455.7	485.1
72.5°	172.8	257.3	359.7	435.2	465.9
75°	138.2	233.0	336.6	414.7	445.4
77.5°	103.7	202.2	314.9	396.8	426.2
80°	73.0	174.1	294.4	378.9	408.3
82.5°	46.1	151.0	276.5	361.0	389.1
85°	21.8	133.1	257.3	341.8	369.9
87.5°	7.7	117.8	240.6	322.6	349.4
90°	0.0	102.4	221.4	303.4	330.2
92.5°	0.0	89.6	206.1	285.4	312.3
95°	0.0	78.1	192.0	268.8	294.4
97.5°	0.0	66.6	177.9	252.2	277.8
100°	0.0	44.8	163.8	236.8	261.1
102.5°	0.0	10.2	149.8	221.4	245.8
105°	0.0	0.0	133.1	207.4	229.1



TEST NUMBER: P544628

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	14.1	130.6	166.4
115°	0.0	0.0	0.0	84.5	125.4
117.5°	0.0	0.0	0.0	33.3	74.2
120°	0.0	0.0	0.0	1.3	23.0
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	102.4	190.7	213.8
110°	0.0	0.0	58.9	167.7	194.6



(END OF REPORT)