

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: P544636

Luminaire Tested: **8TSLES-1-T8-2G-B840-U**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544636
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-B840-U
Description: 80CRI 4000K TLED Strip
Light Source: MainsFit Glass TLED - (2) 4FT 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3839.2 lumens
Efficiency: N/A
Efficacy: 160.0 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

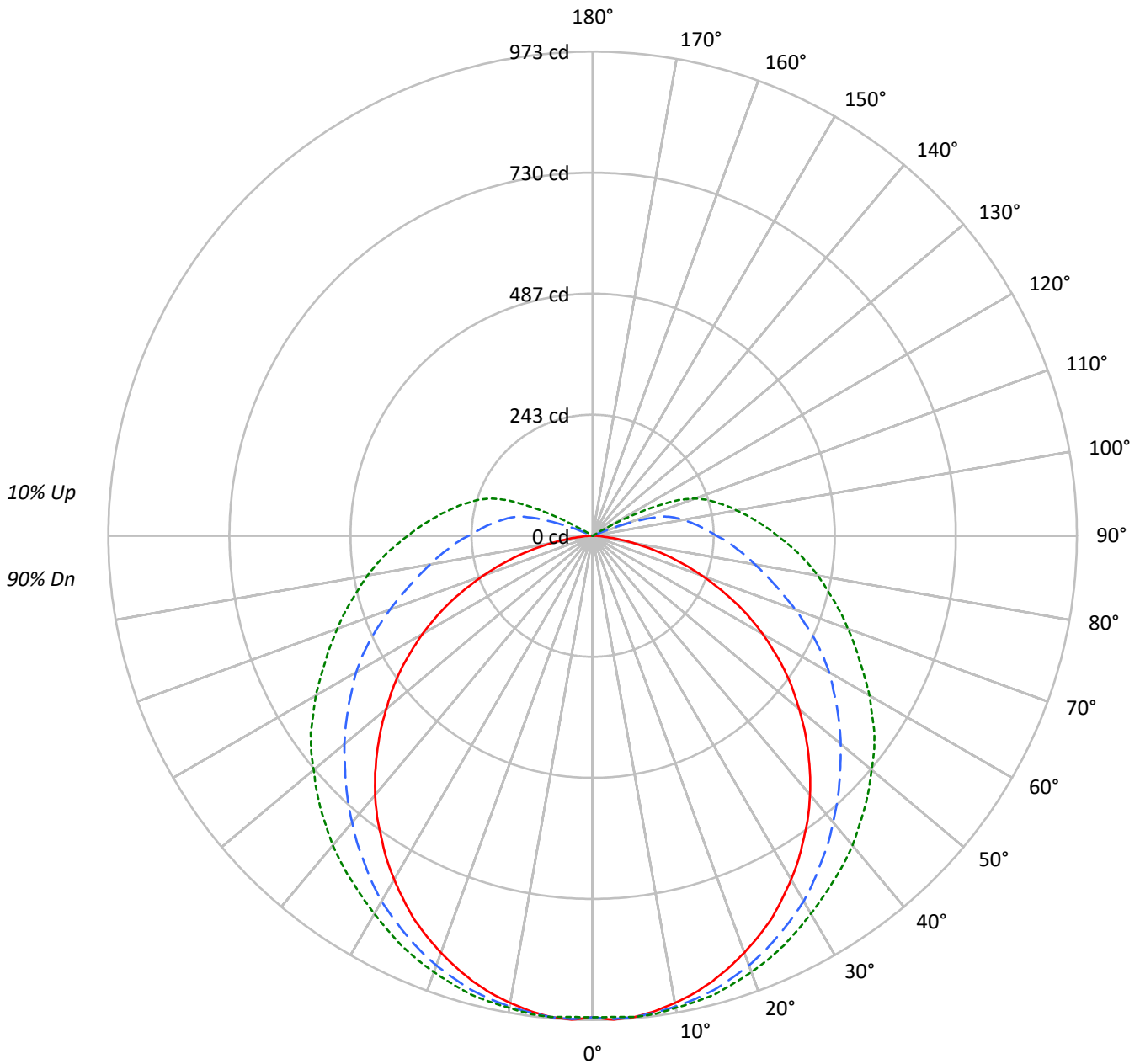
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P544636

CATALOG NUMBER: 8TSLES-1-T8-2G-B840-U

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°	2604	2604	2604
5°	2622	2622	2622
10°	2605	2625	2632
15°	2584	2632	2656
20°	2553	2631	2672
25°	2523	2629	2698
30°	2479	2636	2725
35°	2432	2630	2777
40°	2388	2641	2853
45°	2329	2669	2943
50°	2267	2725	3062
55°	2209	2810	3243
60°	2124	2953	3456
65°	2008	3136	3768
70°	1836	3410	4294
75°	1617	3937	5210
80°	1272	5133	7119
85°	756	8935	12850



TEST NUMBER: P544636

CATALOG NUMBER: 8TSLES-1-T8-2G-B840-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	2.4
10°-20°	264.3	6.9
20°-30°	404.2	10.5
30°-40°	496.1	12.9
40°-50°	535.6	14.0
50°-60°	524.9	13.7
60°-70°	467.5	12.2
70°-80°	379.3	9.9
80°-90°	286.3	7.5
90°-100°	210.5	5.5
100°-110°	134.8	3.5
110°-120°	43.4	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°	760.3	19.8
0°-40°	1256.4	32.7
0°-60°	2316.9	60.3
0°-90°	3450.1	89.9
90°-120°	388.7	10.1
90°-150°	389.2	10.1
90°-180°	389.0	10.1
0°-180°	3839.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	968	968	968	968	968	
5°	971	962	971	958	971	92
15°	927	926	945	937	953	261
25°	850	857	886	887	909	391
35°	740	755	801	818	845	464
45°	612	636	701	743	773	472
55°	471	508	599	660	691	420
65°	315	380	492	560	592	311
75°	156	262	379	467	501	164
85°	24	150	289	384	416	33
90°	0	115	249	341	372	1
95°	0	88	216	302	331	0
105°	0	0	150	233	258	0
115°	0	0	0	95	141	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: P544636

CATALOG NUMBER: 8TSLES-1-T8-2G-B840-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	967.7	967.7	967.7	967.7	967.7
2.5°	973.4	964.8	972.0	960.5	967.7
5°	970.6	961.9	970.6	957.6	970.6
7.5°	963.4	956.2	966.2	954.7	969.1
10°	953.3	947.5	960.5	950.4	963.4
12.5°	941.8	937.4	953.3	943.2	959.0
15°	927.4	925.9	944.6	937.4	953.3
17.5°	910.1	910.1	931.7	927.4	943.2
20°	891.4	894.2	918.7	914.4	933.1
22.5°	871.2	875.5	902.9	900.0	921.6
25°	849.6	856.8	885.6	887.0	908.6
27.5°	823.7	832.3	866.9	871.2	892.8
30°	797.8	809.3	848.2	853.9	877.0
32.5°	770.4	781.9	825.1	836.6	861.1
35°	740.2	754.6	800.6	817.9	845.3
37.5°	711.4	727.2	777.6	800.6	829.4
40°	679.7	697.0	751.7	781.9	812.2
42.5°	646.6	668.2	727.2	763.2	792.0
45°	612.0	636.5	701.3	743.0	773.3
47.5°	577.4	604.8	675.4	722.9	753.1
50°	541.4	571.7	650.9	701.3	731.5
52.5°	506.9	541.4	625.0	679.7	712.8
55°	470.9	508.3	599.0	659.5	691.2
57.5°	432.0	475.2	573.1	636.5	665.3
60°	394.6	443.5	548.6	612.0	642.2
62.5°	355.7	410.4	521.3	586.1	616.3
65°	315.4	380.2	492.5	560.2	591.8
67.5°	273.6	349.9	462.2	535.7	568.8
70°	233.3	318.2	433.4	512.6	545.8
72.5°	194.4	289.4	404.6	489.6	524.2
75°	155.5	262.1	378.7	466.6	501.1
77.5°	116.6	227.5	354.2	446.4	479.5
80°	82.1	195.8	331.2	426.2	459.4
82.5°	51.8	169.9	311.0	406.1	437.8
85°	24.5	149.8	289.4	384.5	416.2
87.5°	8.6	132.5	270.7	362.9	393.1
90°	0.0	115.2	249.1	341.3	371.5
92.5°	0.0	100.8	231.8	321.1	351.4
95°	0.0	87.8	216.0	302.4	331.2
97.5°	0.0	74.9	200.2	283.7	312.5
100°	0.0	50.4	184.3	266.4	293.8
102.5°	0.0	11.5	168.5	249.1	276.5
105°	0.0	0.0	149.8	233.3	257.8



TEST NUMBER: P544636

CATALOG NUMBER: 8TSLES-1-T8-2G-B840-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	15.8	146.9	187.2
115°	0.0	0.0	0.0	95.0	141.1
117.5°	0.0	0.0	0.0	37.4	83.5
120°	0.0	0.0	0.0	1.4	25.9
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



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







107.5°	0.0	0.0	115.2	214.6	240.5
110°	0.0	0.0	66.2	188.6	218.9



(END OF REPORT)