

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: P544640

Luminaire Tested: **8TSLES-1-T8-3G-B835-U**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544640
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-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: 4265.8 lumens
Efficiency: N/A
Efficacy: 147.1 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

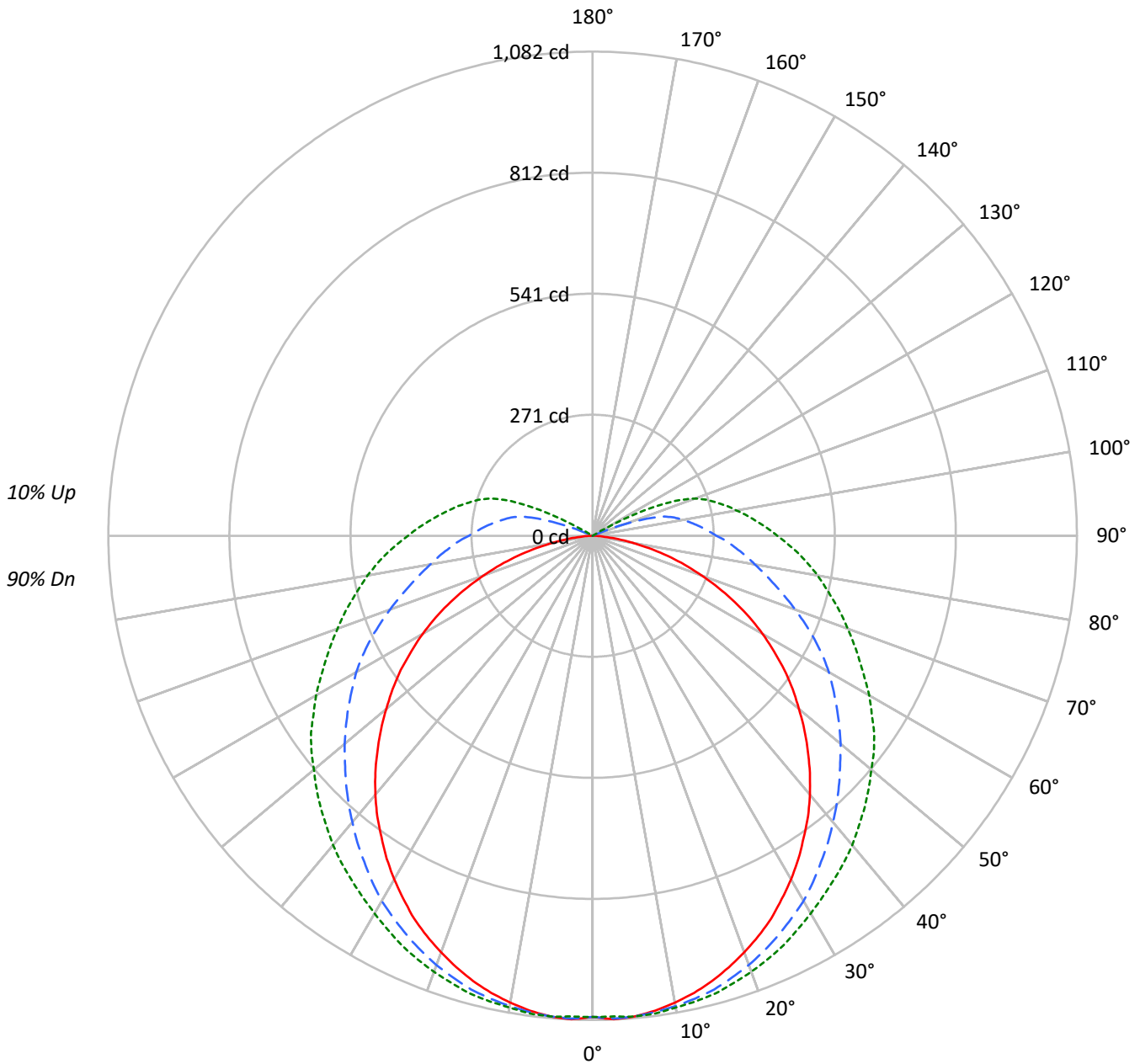
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2893	2893	2893
5°	2913	2913	2913
10°	2894	2916	2925
15°	2871	2924	2951
20°	2836	2923	2969
25°	2803	2922	2998
30°	2754	2928	3028
35°	2702	2922	3085
40°	2653	2934	3170
45°	2588	2965	3270
50°	2519	3028	3403
55°	2455	3123	3603
60°	2359	3281	3841
65°	2231	3484	4187
70°	2039	3789	4771
75°	1797	4375	5789
80°	1413	5703	7910
85°	840	9930	14277



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	2.4
10°-20°	293.7	6.9
20°-30°	449.1	10.5
30°-40°	551.2	12.9
40°-50°	595.1	14.0
50°-60°	583.3	13.7
60°-70°	519.4	12.2
70°-80°	421.5	9.9
80°-90°	318.1	7.5
90°-100°	233.9	5.5
100°-110°	149.8	3.5
110°-120°	48.2	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°	844.8	19.8
0°-40°	1396.0	32.7
0°-60°	2574.4	60.3
0°-90°	3833.4	89.9
90°-120°	431.9	10.1
90°-150°	432.4	10.1
90°-180°	432.0	10.1
0°-180°	4265.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1078	1069	1078	1064	1078	102
15°	1030	1029	1050	1042	1059	290
25°	944	952	984	986	1010	434
35°	822	838	890	909	939	515
45°	680	707	779	826	859	525
55°	523	565	666	733	768	467
65°	350	422	547	622	658	346
75°	173	291	421	518	557	183
85°	27	166	322	427	462	37
90°	0	128	277	379	413	1
95°	0	98	240	336	368	0
105°	0	0	166	259	286	0
115°	0	0	0	106	157	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°	1075.2	1075.2	1075.2	1075.2	1075.2
2.5°	1081.6	1072.0	1080.0	1067.2	1075.2
5°	1078.4	1068.8	1078.4	1064.0	1078.4
7.5°	1070.4	1062.4	1073.6	1060.8	1076.8
10°	1059.2	1052.8	1067.2	1056.0	1070.4
12.5°	1046.4	1041.6	1059.2	1048.0	1065.6
15°	1030.4	1028.8	1049.6	1041.6	1059.2
17.5°	1011.2	1011.2	1035.2	1030.4	1048.0
20°	990.4	993.6	1020.8	1016.0	1036.8
22.5°	968.0	972.8	1003.2	1000.0	1024.0
25°	944.0	952.0	984.0	985.6	1009.6
27.5°	915.2	924.8	963.2	968.0	992.0
30°	886.4	899.2	942.4	948.8	974.4
32.5°	856.0	868.8	916.8	929.6	956.8
35°	822.4	838.4	889.6	908.8	939.2
37.5°	790.4	808.0	864.0	889.6	921.6
40°	755.2	774.4	835.2	868.8	902.4
42.5°	718.4	742.4	808.0	848.0	880.0
45°	680.0	707.2	779.2	825.6	859.2
47.5°	641.6	672.0	750.4	803.2	836.8
50°	601.6	635.2	723.2	779.2	812.8
52.5°	563.2	601.6	694.4	755.2	792.0
55°	523.2	564.8	665.6	732.8	768.0
57.5°	480.0	528.0	636.8	707.2	739.2
60°	438.4	492.8	609.6	680.0	713.6
62.5°	395.2	456.0	579.2	651.2	684.8
65°	350.4	422.4	547.2	622.4	657.6
67.5°	304.0	388.8	513.6	595.2	632.0
70°	259.2	353.6	481.6	569.6	606.4
72.5°	216.0	321.6	449.6	544.0	582.4
75°	172.8	291.2	420.8	518.4	556.8
77.5°	129.6	252.8	393.6	496.0	532.8
80°	91.2	217.6	368.0	473.6	510.4
82.5°	57.6	188.8	345.6	451.2	486.4
85°	27.2	166.4	321.6	427.2	462.4
87.5°	9.6	147.2	300.8	403.2	436.8
90°	0.0	128.0	276.8	379.2	412.8
92.5°	0.0	112.0	257.6	356.8	390.4
95°	0.0	97.6	240.0	336.0	368.0
97.5°	0.0	83.2	222.4	315.2	347.2
100°	0.0	56.0	204.8	296.0	326.4
102.5°	0.0	12.8	187.2	276.8	307.2
105°	0.0	0.0	166.4	259.2	286.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	17.6	163.2	208.0
115°	0.0	0.0	0.0	105.6	156.8
117.5°	0.0	0.0	0.0	41.6	92.8
120°	0.0	0.0	0.0	1.6	28.8
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	128.0	238.4	267.2
110°	0.0	0.0	73.6	209.6	243.2



(END OF REPORT)