

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: P544610

Luminaire Tested: **4SLES-2-T8-1G-B835-U**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-256-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/2/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SLES-2-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: 3323.4 lumens
Efficiency: N/A
Efficacy: 167.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.36 / 1.44
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

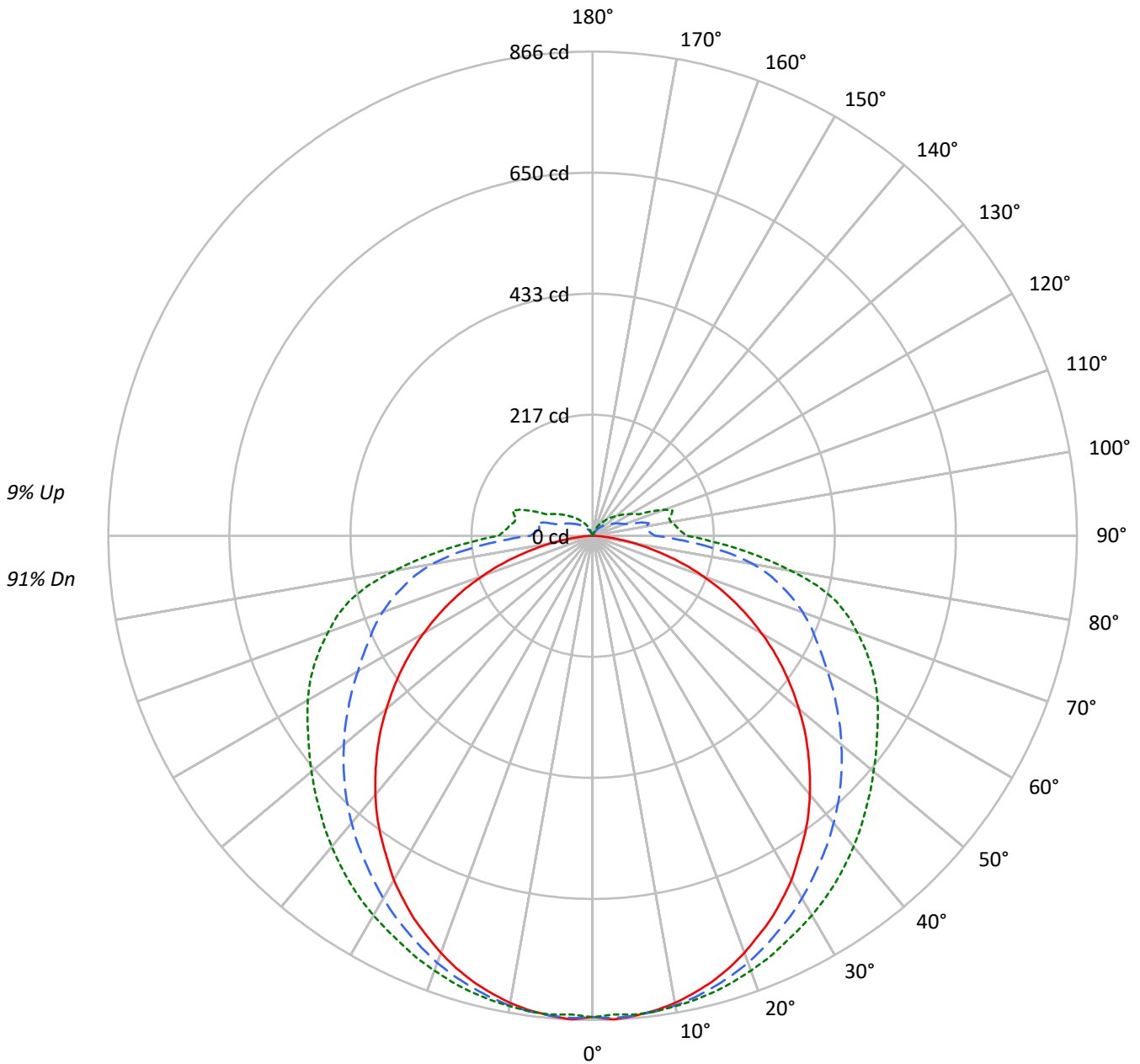
Input Watts (W): 19.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	100	100	100	94	94	94	91																			
1	104	98	93	89	101	95	91	86	89	86	82	84	81	78	79	76	74	71																			
2	94	84	77	70	90	82	75	69	77	71	66	72	67	63	68	64	60	57																			
3	85	73	64	57	81	71	63	56	67	60	54	63	57	52	59	54	50	47																			
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	47	42	39																			
5	71	57	48	40	68	55	47	40	52	45	39	49	43	37	47	41	36	34																			
6	65	51	42	35	63	50	41	35	47	39	33	44	38	32	42	36	32	29																			
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	26																			
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	23																			
9	52	39	30	24	50	38	30	24	36	29	23	34	28	23	32	27	22	20																			
10	49	35	27	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4633	4633	4633
5°	4658	4654	4643
10°	4638	4662	4669
15°	4600	4657	4704
20°	4545	4655	4739
25°	4488	4644	4789
30°	4419	4653	4872
35°	4331	4667	4974
40°	4245	4712	5099
45°	4145	4774	5261
50°	4030	4860	5493
55°	3909	4997	5825
60°	3754	5215	6331
65°	3562	5616	7002
70°	3282	6294	7915
75°	2849	7280	9370
80°	2281	9044	11167
85°	1383	12412	15926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	2.5
10°-20°	235.3	7.1
20°-30°	360.0	10.8
30°-40°	443.5	13.3
40°-50°	479.9	14.4
50°-60°	471.0	14.2
60°-70°	425.1	12.8
70°-80°	340.9	10.3
80°-90°	194.7	5.9
90°-100°	99.1	3.0
100°-110°	82.9	2.5
110°-120°	50.2	1.5
120°-130°	31.2	0.9
130°-140°	17.6	0.5
140°-150°	8.3	0.3
150°-160°	2.0	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	677.0	20.4
0°-40°	1120.5	33.7
0°-60°	2071.5	62.3
0°-90°	3032.1	91.2
90°-120°	232.2	7.0
90°-150°	289.3	8.7
90°-180°	291.0	8.8
0°-180°	3323.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	862	856	861	857	860	82
15°	826	824	836	839	844	233
25°	756	762	782	796	806	348
35°	659	674	710	740	757	412
45°	545	571	627	669	691	420
55°	417	460	532	592	621	372
65°	280	342	441	520	550	277
75°	137	230	350	424	451	146
85°	22	129	201	243	258	29
90°	0	54	112	153	168	1
95°	0	46	100	138	153	0
105°	0	26	92	136	145	0
115°	0	17	52	80	91	0
125°	0	12	36	58	66	0
135°	0	2	24	40	45	0
145°	0	0	13	25	29	0
155°	1	0	0	8	14	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°	860.8	860.8	860.8	860.8	860.8
2.5°	865.9	858.2	863.4	858.9	857.0
5°	862.1	855.7	861.4	857.0	859.5
7.5°	856.3	851.2	858.2	855.0	858.2
10°	848.6	844.2	853.1	850.6	854.4
12.5°	837.8	835.2	845.4	845.4	849.9
15°	825.6	824.3	835.8	839.0	844.2
17.5°	810.9	811.5	825.0	830.7	836.5
20°	793.6	796.8	812.8	819.2	827.5
22.5°	774.4	780.2	798.1	807.0	818.6
25°	755.8	761.6	782.1	796.2	806.4
27.5°	733.4	741.8	766.7	784.0	795.5
30°	711.0	720.0	748.8	770.6	784.0
32.5°	684.2	697.6	729.6	755.2	771.2
35°	659.2	673.9	710.4	739.8	757.1
37.5°	633.0	649.6	691.2	723.8	741.8
40°	604.2	624.0	670.7	705.9	725.8
42.5°	574.7	597.8	649.6	687.4	709.1
45°	544.6	570.9	627.2	668.8	691.2
47.5°	513.9	544.6	604.2	650.2	673.9
50°	481.3	517.1	580.5	630.4	656.0
52.5°	449.3	489.0	557.4	611.2	638.7
55°	416.6	459.5	532.5	592.0	620.8
57.5°	383.4	430.7	509.4	573.4	604.8
60°	348.8	401.3	484.5	556.2	588.2
62.5°	314.9	371.8	462.7	539.5	570.2
65°	279.7	341.8	441.0	519.7	549.8
67.5°	245.1	311.0	421.8	497.9	527.4
70°	208.6	282.2	400.0	473.6	503.0
72.5°	173.4	254.7	376.3	449.9	479.4
75°	137.0	230.4	350.1	423.7	450.6
77.5°	104.3	211.2	323.8	389.1	410.9
80°	73.6	188.2	291.8	343.0	360.3
82.5°	45.4	161.3	249.6	293.1	309.1
85°	22.4	129.3	201.0	242.6	257.9
87.5°	6.4	89.6	152.3	192.6	209.3
90°	0.0	53.8	112.0	153.0	168.3
92.5°	0.0	47.4	104.3	144.0	159.4
95°	0.0	46.1	99.8	138.2	153.0
97.5°	0.0	48.0	96.0	132.5	148.5
100°	0.0	32.6	97.3	128.0	142.1
102.5°	0.0	28.8	103.0	129.3	140.2
105°	0.0	25.6	92.2	136.3	145.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	18.6	56.3	88.3	113.9
115°	0.0	16.6	51.8	80.0	90.9
117.5°	0.0	15.4	47.4	73.6	84.5
120°	0.0	14.1	43.5	67.8	77.4
122.5°	0.0	12.8	39.7	62.7	71.7
125°	0.0	11.5	36.5	57.6	65.9
127.5°	0.0	10.2	33.3	52.5	60.2
130°	0.0	8.3	30.7	48.0	55.0
132.5°	0.0	5.1	27.5	43.5	49.9
135°	0.0	1.9	24.3	39.7	45.4
137.5°	0.0	0.6	21.8	35.8	41.0
140°	0.0	0.0	18.6	32.0	37.1
142.5°	0.0	0.0	16.0	28.8	32.6
145°	0.0	0.0	13.4	25.0	28.8
147.5°	0.6	0.0	9.6	21.1	25.6
150°	0.6	0.0	5.1	17.9	21.8
152.5°	0.6	0.0	1.3	14.1	18.6
155°	0.6	0.0	0.0	8.3	14.1
157.5°	0.6	0.0	0.0	1.9	7.7
160°	0.6	0.0	0.0	0.0	1.3
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	22.4	69.1	131.8	149.8
110°	0.0	20.5	60.8	114.6	136.3



(END OF REPORT)