

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: P544602

Luminaire Tested: **4SLES-1-T8-2G-B850-U**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544602
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: 4SLES-1-T8-2G-B850-U
Description: 80CRI 5000K TLED Strip
Light Source: MainsFit Glass TLED - 4FT 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1919.6 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: 4' x H: 0')
CIE Type: Semi-Direct

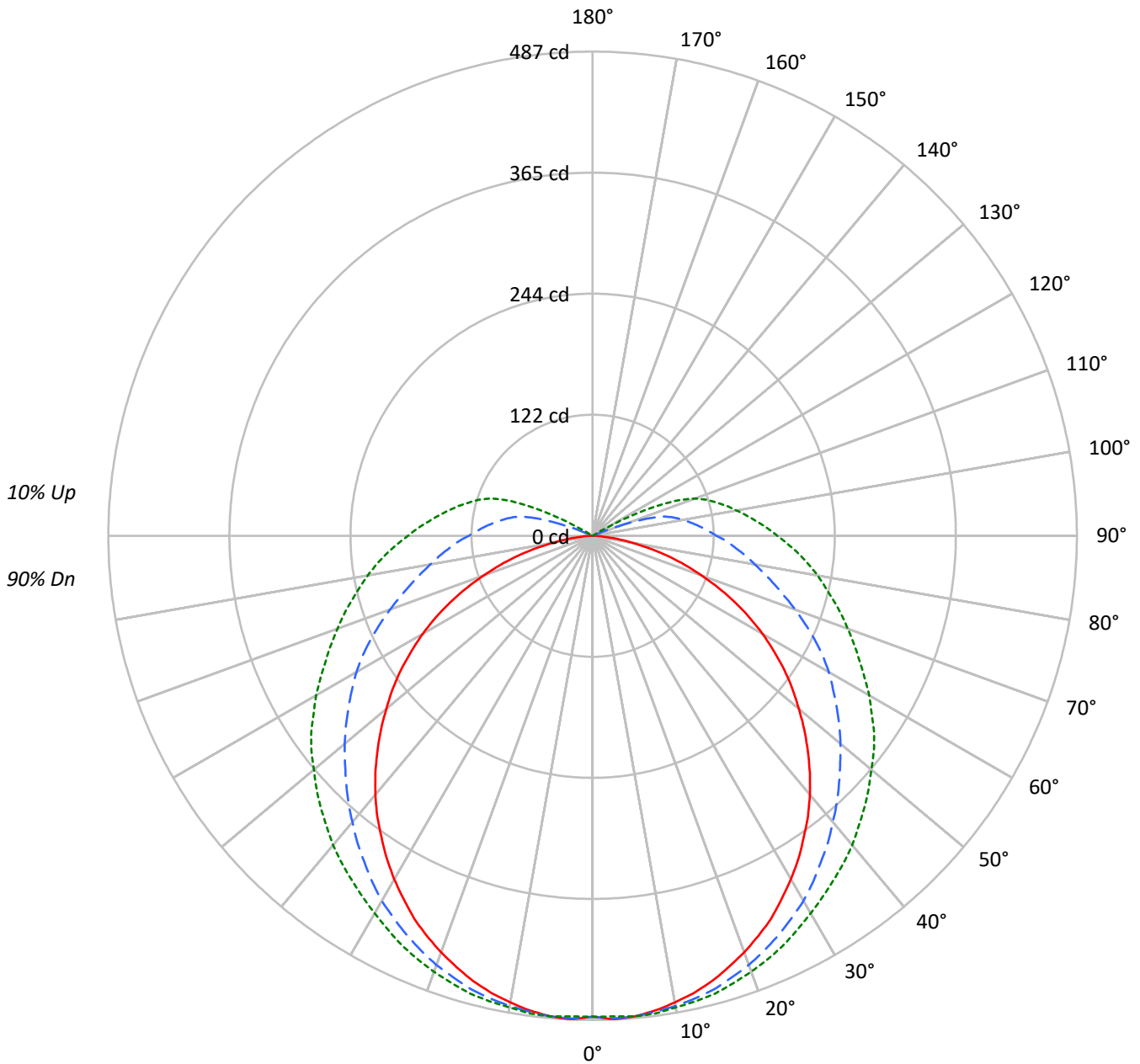
Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	29	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°	2604	2604	2604
5°	2622	2622	2622
10°	2605	2624	2632
15°	2584	2632	2656
20°	2553	2631	2672
25°	2523	2629	2698
30°	2479	2636	2725
35°	2432	2630	2777
40°	2387	2640	2853
45°	2329	2668	2943
50°	2267	2725	3063
55°	2209	2810	3243
60°	2124	2953	3456
65°	2008	3135	3768
70°	1835	3410	4294
75°	1618	3938	5211
80°	1271	5133	7119
85°	753	8935	12850



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	2.4
10°-20°	132.2	6.9
20°-30°	202.1	10.5
30°-40°	248.0	12.9
40°-50°	267.8	14.0
50°-60°	262.5	13.7
60°-70°	233.7	12.2
70°-80°	189.7	9.9
80°-90°	143.2	7.5
90°-100°	105.3	5.5
100°-110°	67.4	3.5
110°-120°	21.7	1.1
120°-130°	0.2	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°	380.2	19.8
0°-40°	628.2	32.7
0°-60°	1158.5	60.3
0°-90°	1725.0	89.9
90°-120°	194.4	10.1
90°-150°	194.6	10.1
90°-180°	195.0	10.2
0°-180°	1919.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	485	481	485	479	485	46
15°	464	463	472	469	477	131
25°	425	428	443	444	454	195
35°	370	377	400	409	423	232
45°	306	318	351	372	387	236
55°	235	254	300	330	346	210
65°	158	190	246	280	296	156
75°	78	131	189	233	251	82
85°	12	75	145	192	208	17
90°	0	58	125	171	186	1
95°	0	44	108	151	166	0
105°	0	0	75	117	129	0
115°	0	0	0	48	71	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°	483.8	483.8	483.8	483.8	483.8
2.5°	486.7	482.4	486.0	480.2	483.8
5°	485.3	481.0	485.3	478.8	485.3
7.5°	481.7	478.1	483.1	477.4	484.6
10°	476.6	473.8	480.2	475.2	481.7
12.5°	470.9	468.7	476.6	471.6	479.5
15°	463.7	463.0	472.3	468.7	476.6
17.5°	455.0	455.0	465.8	463.7	471.6
20°	445.7	447.1	459.4	457.2	466.6
22.5°	435.6	437.8	451.4	450.0	460.8
25°	424.8	428.4	442.8	443.5	454.3
27.5°	411.8	416.2	433.4	435.6	446.4
30°	398.9	404.6	424.1	427.0	438.5
32.5°	385.2	391.0	412.6	418.3	430.6
35°	370.1	377.3	400.3	409.0	422.6
37.5°	355.7	363.6	388.8	400.3	414.7
40°	339.8	348.5	375.8	391.0	406.1
42.5°	323.3	334.1	363.6	381.6	396.0
45°	306.0	318.2	350.6	371.5	386.6
47.5°	288.7	302.4	337.7	361.4	376.6
50°	270.7	285.8	325.4	350.6	365.8
52.5°	253.4	270.7	312.5	339.8	356.4
55°	235.4	254.2	299.5	329.8	345.6
57.5°	216.0	237.6	286.6	318.2	332.6
60°	197.3	221.8	274.3	306.0	321.1
62.5°	177.8	205.2	260.6	293.0	308.2
65°	157.7	190.1	246.2	280.1	295.9
67.5°	136.8	175.0	231.1	267.8	284.4
70°	116.6	159.1	216.7	256.3	272.9
72.5°	97.2	144.7	202.3	244.8	262.1
75°	77.8	131.0	189.4	233.3	250.6
77.5°	58.3	113.8	177.1	223.2	239.8
80°	41.0	97.9	165.6	213.1	229.7
82.5°	25.9	85.0	155.5	203.0	218.9
85°	12.2	74.9	144.7	192.2	208.1
87.5°	4.3	66.2	135.4	181.4	196.6
90°	0.0	57.6	124.6	170.6	185.8
92.5°	0.0	50.4	115.9	160.6	175.7
95°	0.0	43.9	108.0	151.2	165.6
97.5°	0.0	37.4	100.1	141.8	156.2
100°	0.0	25.2	92.2	133.2	146.9
102.5°	0.0	5.8	84.2	124.6	138.2
105°	0.0	0.0	74.9	116.6	128.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	7.9	73.4	93.6
115°	0.0	0.0	0.0	47.5	70.6
117.5°	0.0	0.0	0.0	18.7	41.8
120°	0.0	0.0	0.0	0.7	13.0
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



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







107.5°	0.0	0.0	57.6	107.3	120.2
110°	0.0	0.0	33.1	94.3	109.4



(END OF REPORT)