

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: P544592

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

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544592
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-T8-1G-B835-U
Description: 80CRI 3500K TLED Strip
Light Source: MainsFit Glass TLED - 4FT 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1706.3 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: 4' x H: 0')
CIE Type: Semi-Direct

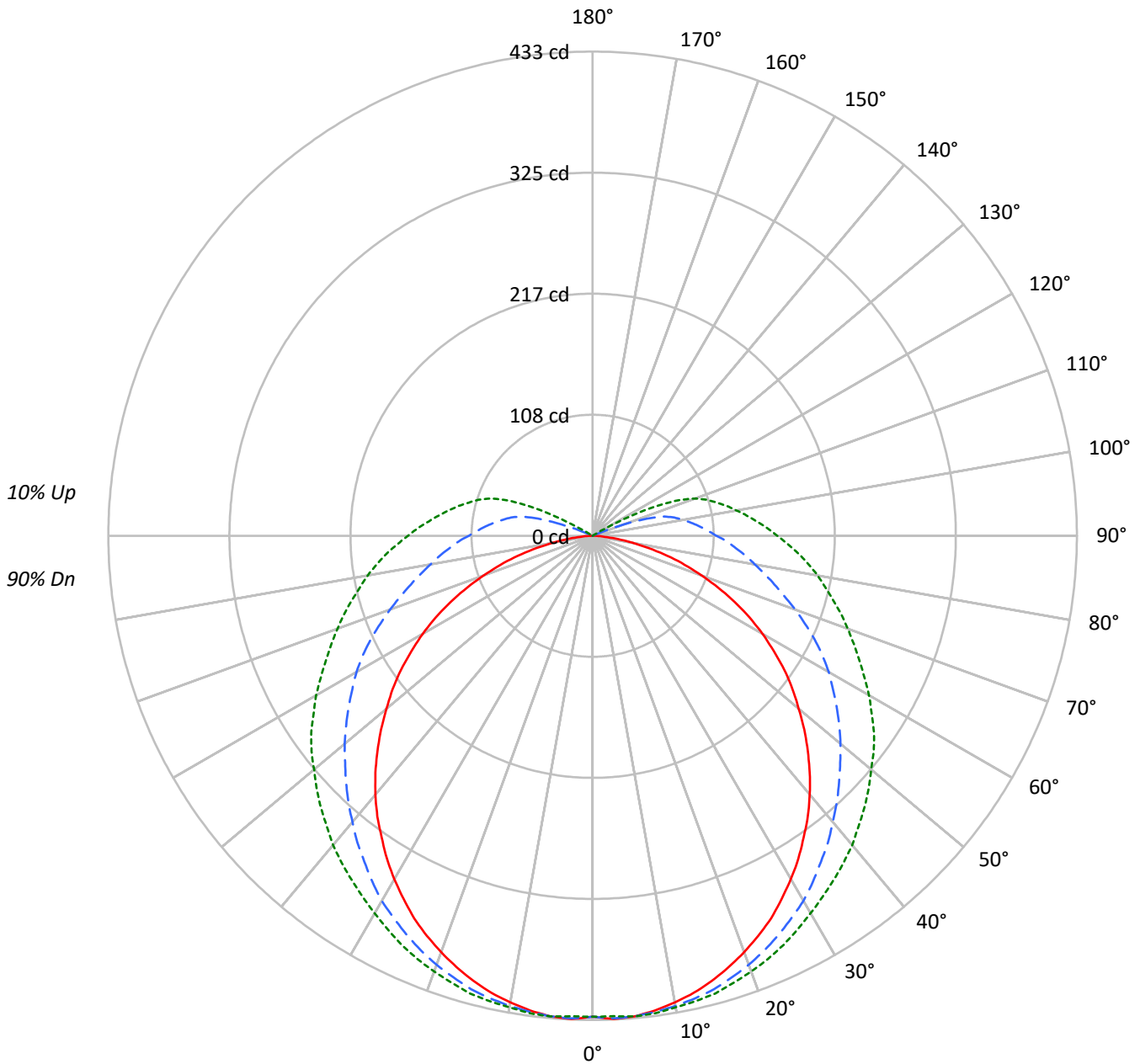
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P544592

CATALOG NUMBER: 4SLES-1-T8-1G-B835-U

Luminous Intensity Polar Plot





TEST NUMBER: P544592

CATALOG NUMBER: 4SLES-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	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°	2315	2315	2315
5°	2331	2331	2331
10°	2316	2333	2340
15°	2297	2339	2361
20°	2269	2338	2375
25°	2242	2337	2398
30°	2204	2343	2422
35°	2162	2338	2468
40°	2122	2347	2536
45°	2070	2372	2616
50°	2015	2422	2722
55°	1964	2498	2883
60°	1888	2624	3072
65°	1785	2788	3349
70°	1632	3031	3818
75°	1437	3500	4631
80°	1131	4562	6329
85°	673	7941	11424



TEST NUMBER: P544592

CATALOG NUMBER: 4SLES-1-T8-1G-B835-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	2.4
10°-20°	117.5	6.9
20°-30°	179.6	10.5
30°-40°	220.5	12.9
40°-50°	238.0	14.0
50°-60°	233.3	13.7
60°-70°	207.8	12.2
70°-80°	168.6	9.9
80°-90°	127.3	7.5
90°-100°	93.6	5.5
100°-110°	59.9	3.5
110°-120°	19.3	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°	337.9	19.8
0°-40°	558.4	32.7
0°-60°	1029.7	60.3
0°-90°	1533.4	89.9
90°-120°	172.8	10.1
90°-150°	173.0	10.1
90°-180°	173.0	10.1
0°-180°	1706.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	430	430	430	430	430	
5°	431	428	431	426	431	41
15°	412	412	420	417	424	116
25°	378	381	394	394	404	174
35°	329	335	356	364	376	206
45°	272	283	312	330	344	210
55°	209	226	266	293	307	187
65°	140	169	219	249	263	138
75°	69	116	168	207	223	73
85°	11	67	129	171	185	15
90°	0	51	111	152	165	1
95°	0	39	96	134	147	0
105°	0	0	67	104	115	0
115°	0	0	0	42	63	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: P544592

CATALOG NUMBER: 4SLES-1-T8-1G-B835-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	430.1	430.1	430.1	430.1	430.1
2.5°	432.6	428.8	432.0	426.9	430.1
5°	431.4	427.5	431.4	425.6	431.4
7.5°	428.2	425.0	429.4	424.3	430.7
10°	423.7	421.1	426.9	422.4	428.2
12.5°	418.6	416.6	423.7	419.2	426.2
15°	412.2	411.5	419.8	416.6	423.7
17.5°	404.5	404.5	414.1	412.2	419.2
20°	396.2	397.4	408.3	406.4	414.7
22.5°	387.2	389.1	401.3	400.0	409.6
25°	377.6	380.8	393.6	394.2	403.8
27.5°	366.1	369.9	385.3	387.2	396.8
30°	354.6	359.7	377.0	379.5	389.8
32.5°	342.4	347.5	366.7	371.8	382.7
35°	329.0	335.4	355.8	363.5	375.7
37.5°	316.2	323.2	345.6	355.8	368.6
40°	302.1	309.8	334.1	347.5	361.0
42.5°	287.4	297.0	323.2	339.2	352.0
45°	272.0	282.9	311.7	330.2	343.7
47.5°	256.6	268.8	300.2	321.3	334.7
50°	240.6	254.1	289.3	311.7	325.1
52.5°	225.3	240.6	277.8	302.1	316.8
55°	209.3	225.9	266.2	293.1	307.2
57.5°	192.0	211.2	254.7	282.9	295.7
60°	175.4	197.1	243.8	272.0	285.4
62.5°	158.1	182.4	231.7	260.5	273.9
65°	140.2	169.0	218.9	249.0	263.0
67.5°	121.6	155.5	205.4	238.1	252.8
70°	103.7	141.4	192.6	227.8	242.6
72.5°	86.4	128.6	179.8	217.6	233.0
75°	69.1	116.5	168.3	207.4	222.7
77.5°	51.8	101.1	157.4	198.4	213.1
80°	36.5	87.0	147.2	189.4	204.2
82.5°	23.0	75.5	138.2	180.5	194.6
85°	10.9	66.6	128.6	170.9	185.0
87.5°	3.8	58.9	120.3	161.3	174.7
90°	0.0	51.2	110.7	151.7	165.1
92.5°	0.0	44.8	103.0	142.7	156.2
95°	0.0	39.0	96.0	134.4	147.2
97.5°	0.0	33.3	89.0	126.1	138.9
100°	0.0	22.4	81.9	118.4	130.6
102.5°	0.0	5.1	74.9	110.7	122.9
105°	0.0	0.0	66.6	103.7	114.6



TEST NUMBER: P544592

CATALOG NUMBER: 4SLES-1-T8-1G-B835-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	7.0	65.3	83.2
115°	0.0	0.0	0.0	42.2	62.7
117.5°	0.0	0.0	0.0	16.6	37.1
120°	0.0	0.0	0.0	0.6	11.5
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	51.2	95.4	106.9
110°	0.0	0.0	29.4	83.8	97.3



(END OF REPORT)