

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: P544622

Luminaire Tested: **4SLES-2-T8-3G-B835-U**

Issue Date: 7/2/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P544622  
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-T8-3G-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: 4154.3 lumens  
Efficiency: N/A  
Efficacy: 143.3 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

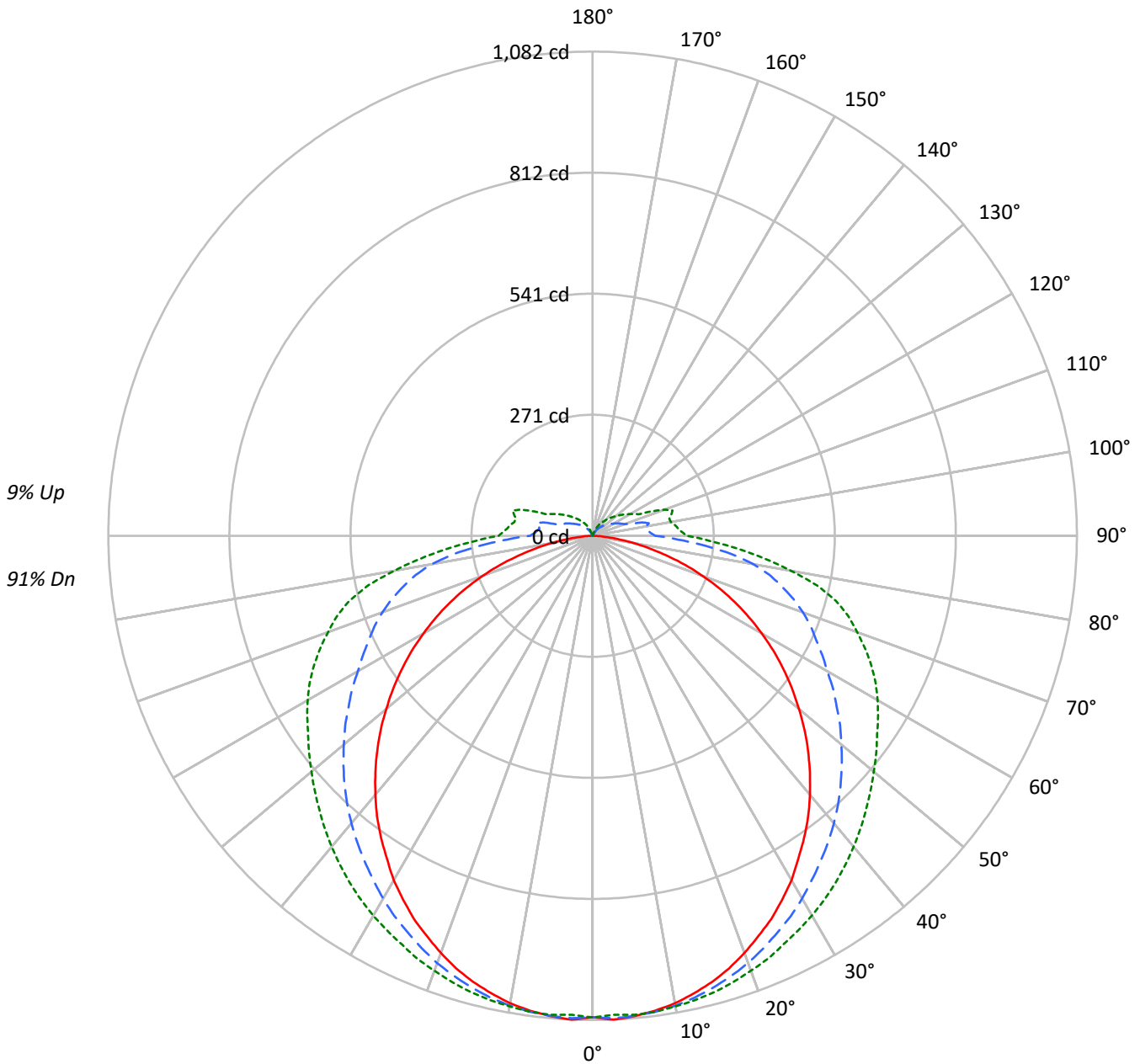
Input Watts (W): 29  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	5791	5791	5791
5°	5822	5817	5804
10°	5797	5828	5837
15°	5750	5821	5879
20°	5682	5819	5924
25°	5611	5805	5986
30°	5523	5817	6090
35°	5414	5834	6218
40°	5306	5890	6374
45°	5182	5967	6576
50°	5037	6075	6866
55°	4887	6245	7281
60°	4693	6519	7914
65°	4452	7019	8751
70°	4104	7868	9895
75°	3560	9100	11711
80°	2851	11306	13959
85°	1729	15512	19909



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.1	2.5
10°-20°	294.1	7.1
20°-30°	450.0	10.8
30°-40°	554.4	13.3
40°-50°	599.9	14.4
50°-60°	588.8	14.2
60°-70°	531.3	12.8
70°-80°	426.2	10.3
80°-90°	243.4	5.9
90°-100°	123.8	3.0
100°-110°	103.6	2.5
110°-120°	62.7	1.5
120°-130°	39.0	0.9
130°-140°	21.9	0.5
140°-150°	10.4	0.3
150°-160°	2.5	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	846.2	20.4
0°-40°	1400.6	33.7
0°-60°	2589.3	62.3
0°-90°	3790.2	91.2
90°-120°	290.2	7.0
90°-150°	361.6	8.7
90°-180°	364.0	8.8
0°-180°	4154.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1078	1070	1077	1071	1074	102
15°	1032	1030	1045	1049	1055	291
25°	945	952	978	995	1008	435
35°	824	842	888	925	946	515
45°	681	714	784	836	864	525
55°	521	574	666	740	776	465
65°	350	427	551	650	687	346
75°	171	288	438	530	563	183
85°	28	162	251	303	322	37
90°	0	67	140	191	210	1
95°	0	58	125	173	191	0
105°	0	32	115	170	182	0
115°	0	21	65	100	114	0
125°	0	14	46	72	82	0
135°	0	2	30	50	57	0
145°	0	0	17	31	36	0
155°	1	0	0	10	18	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P544622

CATALOG NUMBER: 4SLES-2-T8-3G-B835-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1076.0	1076.0	1076.0	1076.0	1076.0
2.5°	1082.4	1072.8	1079.2	1073.6	1071.2
5°	1077.6	1069.6	1076.8	1071.2	1074.4
7.5°	1070.4	1064.0	1072.8	1068.8	1072.8
10°	1060.8	1055.2	1066.4	1063.2	1068.0
12.5°	1047.2	1044.0	1056.8	1056.8	1062.4
15°	1032.0	1030.4	1044.8	1048.8	1055.2
17.5°	1013.6	1014.4	1031.2	1038.4	1045.6
20°	992.0	996.0	1016.0	1024.0	1034.4
22.5°	968.0	975.2	997.6	1008.8	1023.2
25°	944.8	952.0	977.6	995.2	1008.0
27.5°	916.8	927.2	958.4	980.0	994.4
30°	888.8	900.0	936.0	963.2	980.0
32.5°	855.2	872.0	912.0	944.0	964.0
35°	824.0	842.4	888.0	924.8	946.4
37.5°	791.2	812.0	864.0	904.8	927.2
40°	755.2	780.0	838.4	882.4	907.2
42.5°	718.4	747.2	812.0	859.2	886.4
45°	680.8	713.6	784.0	836.0	864.0
47.5°	642.4	680.8	755.2	812.8	842.4
50°	601.6	646.4	725.6	788.0	820.0
52.5°	561.6	611.2	696.8	764.0	798.4
55°	520.8	574.4	665.6	740.0	776.0
57.5°	479.2	538.4	636.8	716.8	756.0
60°	436.0	501.6	605.6	695.2	735.2
62.5°	393.6	464.8	578.4	674.4	712.8
65°	349.6	427.2	551.2	649.6	687.2
67.5°	306.4	388.8	527.2	622.4	659.2
70°	260.8	352.8	500.0	592.0	628.8
72.5°	216.8	318.4	470.4	562.4	599.2
75°	171.2	288.0	437.6	529.6	563.2
77.5°	130.4	264.0	404.8	486.4	513.6
80°	92.0	235.2	364.8	428.8	450.4
82.5°	56.8	201.6	312.0	366.4	386.4
85°	28.0	161.6	251.2	303.2	322.4
87.5°	8.0	112.0	190.4	240.8	261.6
90°	0.0	67.2	140.0	191.2	210.4
92.5°	0.0	59.2	130.4	180.0	199.2
95°	0.0	57.6	124.8	172.8	191.2
97.5°	0.0	60.0	120.0	165.6	185.6
100°	0.0	40.8	121.6	160.0	177.6
102.5°	0.0	36.0	128.8	161.6	175.2
105°	0.0	32.0	115.2	170.4	181.6



TEST NUMBER: P544622

CATALOG NUMBER: 4SLES-2-T8-3G-B835-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	23.2	70.4	110.4	142.4
115°	0.0	20.8	64.8	100.0	113.6
117.5°	0.0	19.2	59.2	92.0	105.6
120°	0.0	17.6	54.4	84.8	96.8
122.5°	0.0	16.0	49.6	78.4	89.6
125°	0.0	14.4	45.6	72.0	82.4
127.5°	0.0	12.8	41.6	65.6	75.2
130°	0.0	10.4	38.4	60.0	68.8
132.5°	0.0	6.4	34.4	54.4	62.4
135°	0.0	2.4	30.4	49.6	56.8
137.5°	0.0	0.8	27.2	44.8	51.2
140°	0.0	0.0	23.2	40.0	46.4
142.5°	0.0	0.0	20.0	36.0	40.8
145°	0.0	0.0	16.8	31.2	36.0
147.5°	0.8	0.0	12.0	26.4	32.0
150°	0.8	0.0	6.4	22.4	27.2
152.5°	0.8	0.0	1.6	17.6	23.2
155°	0.8	0.0	0.0	10.4	17.6
157.5°	0.8	0.0	0.0	2.4	9.6
160°	0.8	0.0	0.0	0.0	1.6
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	28.0	86.4	164.8	187.2
110°	0.0	25.6	76.0	143.2	170.4



(END OF REPORT)