

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: P544596

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

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544596
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-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: 1759.7 lumens
Efficiency: N/A
Efficacy: 177.7 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

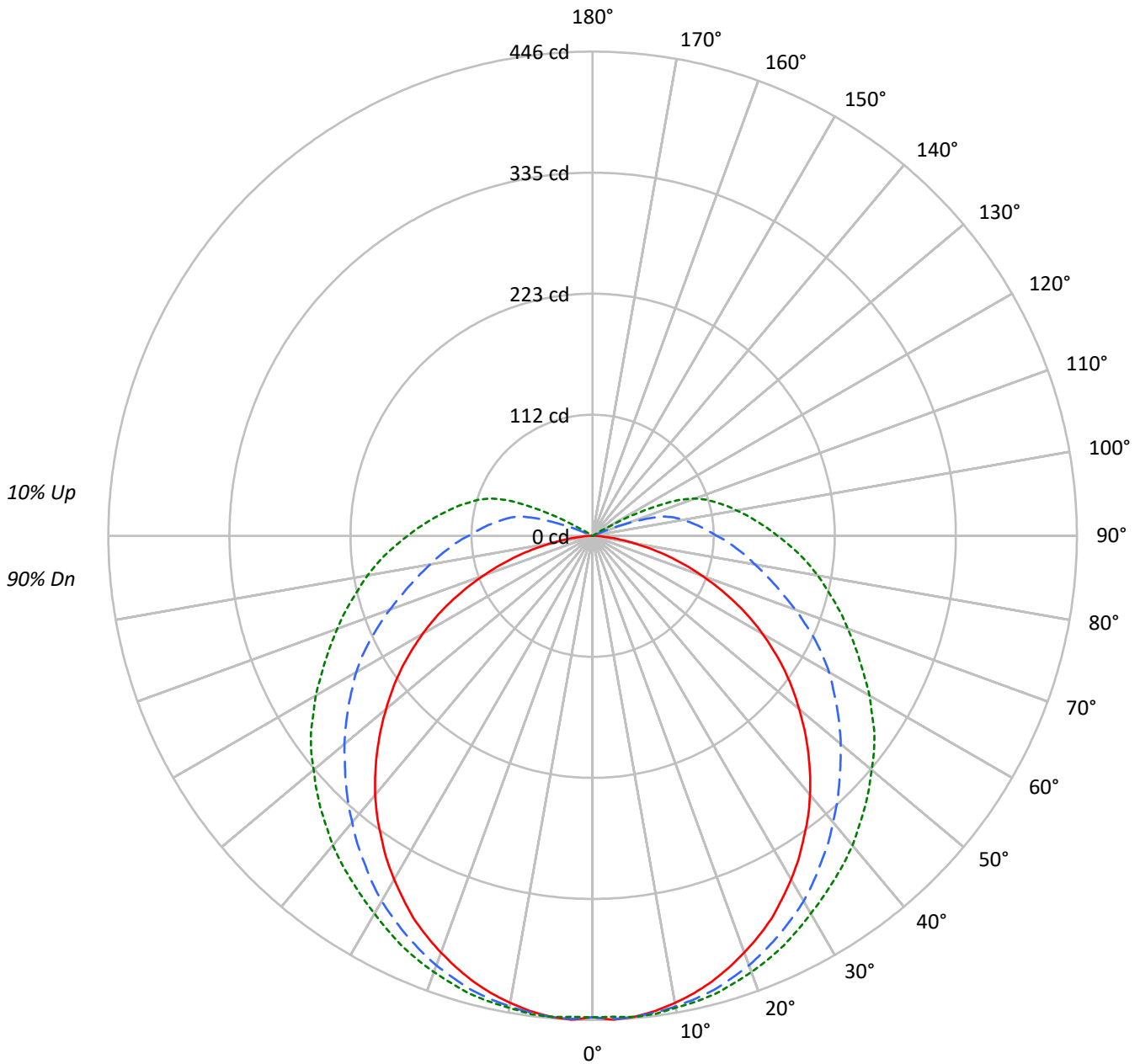
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P544596

CATALOG NUMBER: 4SLES-1-T8-1G-B850-U

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	93	93	90																	
1	103	97	92	87	100	94	89	85	88	84	80	82	79	76	77	74	72	72	72	69																	
2	93	83	76	69	89	81	73	67	75	69	64	70	65	61	66	62	58	58	55																		
3	84	72	63	56	81	70	62	55	66	58	53	61	55	50	57	53	48	48	45																		
4	77	64	54	47	74	62	53	46	58	50	44	54	48	43	51	45	41	41	38																		
5	70	57	47	40	67	55	46	39	52	44	38	48	42	36	46	40	35	35	33																		
6	65	51	41	35	62	49	40	34	46	39	33	44	37	32	41	35	31	31	28																		
7	60	46	37	30	58	45	36	30	42	34	29	40	33	28	37	32	27	27	25																		
8	56	42	33	27	54	41	32	26	38	31	26	36	30	25	34	28	24	24	22																		
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	32	26	22	22	20																		
10	49	35	27	22	47	34	27	21	33	26	21	31	25	20	29	24	20	20	18																		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2387	2387	2387
5°	2403	2403	2403
10°	2388	2406	2413
15°	2368	2413	2434
20°	2340	2412	2450
25°	2312	2410	2473
30°	2272	2416	2498
35°	2229	2411	2545
40°	2188	2420	2615
45°	2135	2446	2697
50°	2078	2498	2807
55°	2025	2577	2973
60°	1946	2707	3169
65°	1840	2874	3455
70°	1682	3127	3936
75°	1483	3610	4776
80°	1165	4705	6524
85°	692	8194	11776



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CATALOG NUMBER: 4SLES-1-T8-1G-B850-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	2.4
10°-20°	121.2	6.9
20°-30°	185.3	10.5
30°-40°	227.4	12.9
40°-50°	245.5	13.9
50°-60°	240.6	13.7
60°-70°	214.3	12.2
70°-80°	173.9	9.9
80°-90°	131.2	7.5
90°-100°	96.5	5.5
100°-110°	61.8	3.5
110°-120°	19.9	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°	348.5	19.8
0°-40°	575.8	32.7
0°-60°	1061.9	60.3
0°-90°	1581.3	89.9
90°-120°	178.2	10.1
90°-150°	178.4	10.1
90°-180°	178.0	10.1
0°-180°	1759.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	445	441	445	439	445	42
15°	425	424	433	430	437	120
25°	389	393	406	407	416	179
35°	339	346	367	375	387	212
45°	280	292	321	341	354	216
55°	216	233	275	302	317	192
65°	144	174	226	257	271	143
75°	71	120	174	214	230	75
85°	11	69	133	176	191	15
90°	0	53	114	156	170	1
95°	0	40	99	139	152	0
105°	0	0	69	107	118	0
115°	0	0	0	44	65	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: P544596

CATALOG NUMBER: 4SLES-1-T8-1G-B850-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	443.5	443.5	443.5	443.5	443.5
2.5°	446.2	442.2	445.5	440.2	443.5
5°	444.8	440.9	444.8	438.9	444.8
7.5°	441.5	438.2	442.9	437.6	444.2
10°	436.9	434.3	440.2	435.6	441.5
12.5°	431.6	429.7	436.9	432.3	439.6
15°	425.0	424.4	433.0	429.7	436.9
17.5°	417.1	417.1	427.0	425.0	432.3
20°	408.5	409.9	421.1	419.1	427.7
22.5°	399.3	401.3	413.8	412.5	422.4
25°	389.4	392.7	405.9	406.6	416.5
27.5°	377.5	381.5	397.3	399.3	409.2
30°	365.6	370.9	388.7	391.4	401.9
32.5°	353.1	358.4	378.2	383.5	394.7
35°	339.2	345.8	367.0	374.9	387.4
37.5°	326.0	333.3	356.4	367.0	380.2
40°	311.5	319.4	344.5	358.4	372.2
42.5°	296.3	306.2	333.3	349.8	363.0
45°	280.5	291.7	321.4	340.6	354.4
47.5°	264.7	277.2	309.5	331.3	345.2
50°	248.2	262.0	298.3	321.4	335.3
52.5°	232.3	248.2	286.4	311.5	326.7
55°	215.8	233.0	274.6	302.3	316.8
57.5°	198.0	217.8	262.7	291.7	304.9
60°	180.8	203.3	251.5	280.5	294.4
62.5°	163.0	188.1	238.9	268.6	282.5
65°	144.5	174.2	225.7	256.7	271.3
67.5°	125.4	160.4	211.9	245.5	260.7
70°	106.9	145.9	198.7	235.0	250.1
72.5°	89.1	132.7	185.5	224.4	240.2
75°	71.3	120.1	173.6	213.8	229.7
77.5°	53.5	104.3	162.4	204.6	219.8
80°	37.6	89.8	151.8	195.4	210.5
82.5°	23.8	77.9	142.6	186.1	200.6
85°	11.2	68.6	132.7	176.2	190.7
87.5°	4.0	60.7	124.1	166.3	180.2
90°	0.0	52.8	114.2	156.4	170.3
92.5°	0.0	46.2	106.3	147.2	161.0
95°	0.0	40.3	99.0	138.6	151.8
97.5°	0.0	34.3	91.7	130.0	143.2
100°	0.0	23.1	84.5	122.1	134.6
102.5°	0.0	5.3	77.2	114.2	126.7
105°	0.0	0.0	68.6	106.9	118.1



TEST NUMBER: P544596

CATALOG NUMBER: 4SLES-1-T8-1G-B850-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	7.3	67.3	85.8
115°	0.0	0.0	0.0	43.6	64.7
117.5°	0.0	0.0	0.0	17.2	38.3
120°	0.0	0.0	0.0	0.7	11.9
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	52.8	98.3	110.2
110°	0.0	0.0	30.4	86.5	100.3



(END OF REPORT)