

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: P544606

Luminaire Tested: **4SLES-1-T8-3G-B840-U**

Issue Date: 7/2/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P544606  
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-T8-3G-B840-U  
Description: 80CRI 4000K TLED Strip  
Light Source: MainsFit Glass TLED - 4FT 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2239.6 lumens  
Efficiency: N/A  
Efficacy: 154.5 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

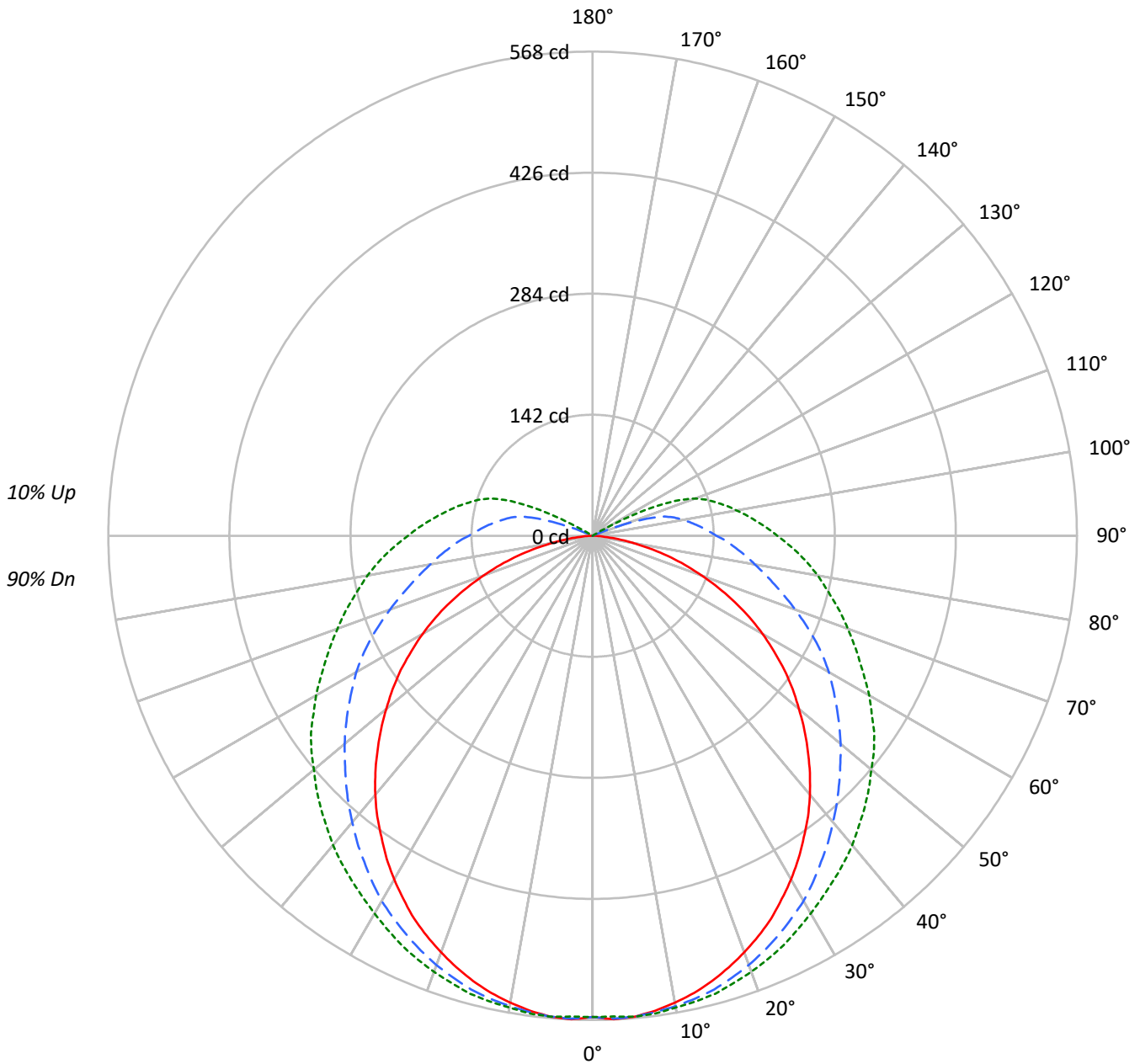
Input Watts (W): 14.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3038	3038	3038
5°	3059	3059	3059
10°	3039	3062	3071
15°	3014	3070	3098
20°	2978	3069	3117
25°	2943	3068	3147
30°	2892	3075	3179
35°	2837	3068	3240
40°	2786	3081	3329
45°	2717	3114	3433
50°	2644	3179	3573
55°	2578	3278	3783
60°	2478	3444	4032
65°	2343	3659	4396
70°	2142	3978	5010
75°	1886	4593	6078
80°	1485	5988	8306
85°	883	10424	14993



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.5	2.4
10°-20°	154.2	6.9
20°-30°	235.8	10.5
30°-40°	289.4	12.9
40°-50°	312.4	14.0
50°-60°	306.2	13.7
60°-70°	272.7	12.2
70°-80°	221.3	9.9
80°-90°	167.0	7.5
90°-100°	122.8	5.5
100°-110°	78.7	3.5
110°-120°	25.3	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°	443.5	19.8
0°-40°	732.9	32.7
0°-60°	1351.5	60.3
0°-90°	2012.5	89.9
90°-120°	226.8	10.1
90°-150°	227.0	10.1
90°-180°	227.0	10.1
0°-180°	2239.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	566	561	566	559	566	54
15°	541	540	551	547	556	152
25°	496	500	517	517	530	228
35°	432	440	467	477	493	270
45°	357	371	409	433	451	275
55°	275	296	349	385	403	245
65°	184	222	287	327	345	182
75°	91	153	221	272	292	96
85°	14	87	169	224	243	19
90°	0	67	145	199	217	1
95°	0	51	126	176	193	0
105°	0	0	87	136	150	0
115°	0	0	0	55	82	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°	564.5	564.5	564.5	564.5	564.5
2.5°	567.8	562.8	567.0	560.3	564.5
5°	566.2	561.1	566.2	558.6	566.2
7.5°	562.0	557.8	563.6	556.9	565.3
10°	556.1	552.7	560.3	554.4	562.0
12.5°	549.4	546.8	556.1	550.2	559.4
15°	541.0	540.1	551.0	546.8	556.1
17.5°	530.9	530.9	543.5	541.0	550.2
20°	520.0	521.6	535.9	533.4	544.3
22.5°	508.2	510.7	526.7	525.0	537.6
25°	495.6	499.8	516.6	517.4	530.0
27.5°	480.5	485.5	505.7	508.2	520.8
30°	465.4	472.1	494.8	498.1	511.6
32.5°	449.4	456.1	481.3	488.0	502.3
35°	431.8	440.2	467.0	477.1	493.1
37.5°	415.0	424.2	453.6	467.0	483.8
40°	396.5	406.6	438.5	456.1	473.8
42.5°	377.2	389.8	424.2	445.2	462.0
45°	357.0	371.3	409.1	433.4	451.1
47.5°	336.8	352.8	394.0	421.7	439.3
50°	315.8	333.5	379.7	409.1	426.7
52.5°	295.7	315.8	364.6	396.5	415.8
55°	274.7	296.5	349.4	384.7	403.2
57.5°	252.0	277.2	334.3	371.3	388.1
60°	230.2	258.7	320.0	357.0	374.6
62.5°	207.5	239.4	304.1	341.9	359.5
65°	184.0	221.8	287.3	326.8	345.2
67.5°	159.6	204.1	269.6	312.5	331.8
70°	136.1	185.6	252.8	299.0	318.4
72.5°	113.4	168.8	236.0	285.6	305.8
75°	90.7	152.9	220.9	272.2	292.3
77.5°	68.0	132.7	206.6	260.4	279.7
80°	47.9	114.2	193.2	248.6	268.0
82.5°	30.2	99.1	181.4	236.9	255.4
85°	14.3	87.4	168.8	224.3	242.8
87.5°	5.0	77.3	157.9	211.7	229.3
90°	0.0	67.2	145.3	199.1	216.7
92.5°	0.0	58.8	135.2	187.3	205.0
95°	0.0	51.2	126.0	176.4	193.2
97.5°	0.0	43.7	116.8	165.5	182.3
100°	0.0	29.4	107.5	155.4	171.4
102.5°	0.0	6.7	98.3	145.3	161.3
105°	0.0	0.0	87.4	136.1	150.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	9.2	85.7	109.2
115°	0.0	0.0	0.0	55.4	82.3
117.5°	0.0	0.0	0.0	21.8	48.7
120°	0.0	0.0	0.0	0.8	15.1
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	67.2	125.2	140.3
110°	0.0	0.0	38.6	110.0	127.7



(END OF REPORT)