

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: P544597

Luminaire Tested: **4SLES-1-T8-2G-B835-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P544597  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-256-4)  
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-B835-U-ICF-4FT-REFL  
Description: 80CRI 3500K TLED with Reflector  
Light Source: MainsFit Glass TLED - 4FT 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1645.7 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 0.92' x L: 4' x H: 0')  
CIE Type: Direct

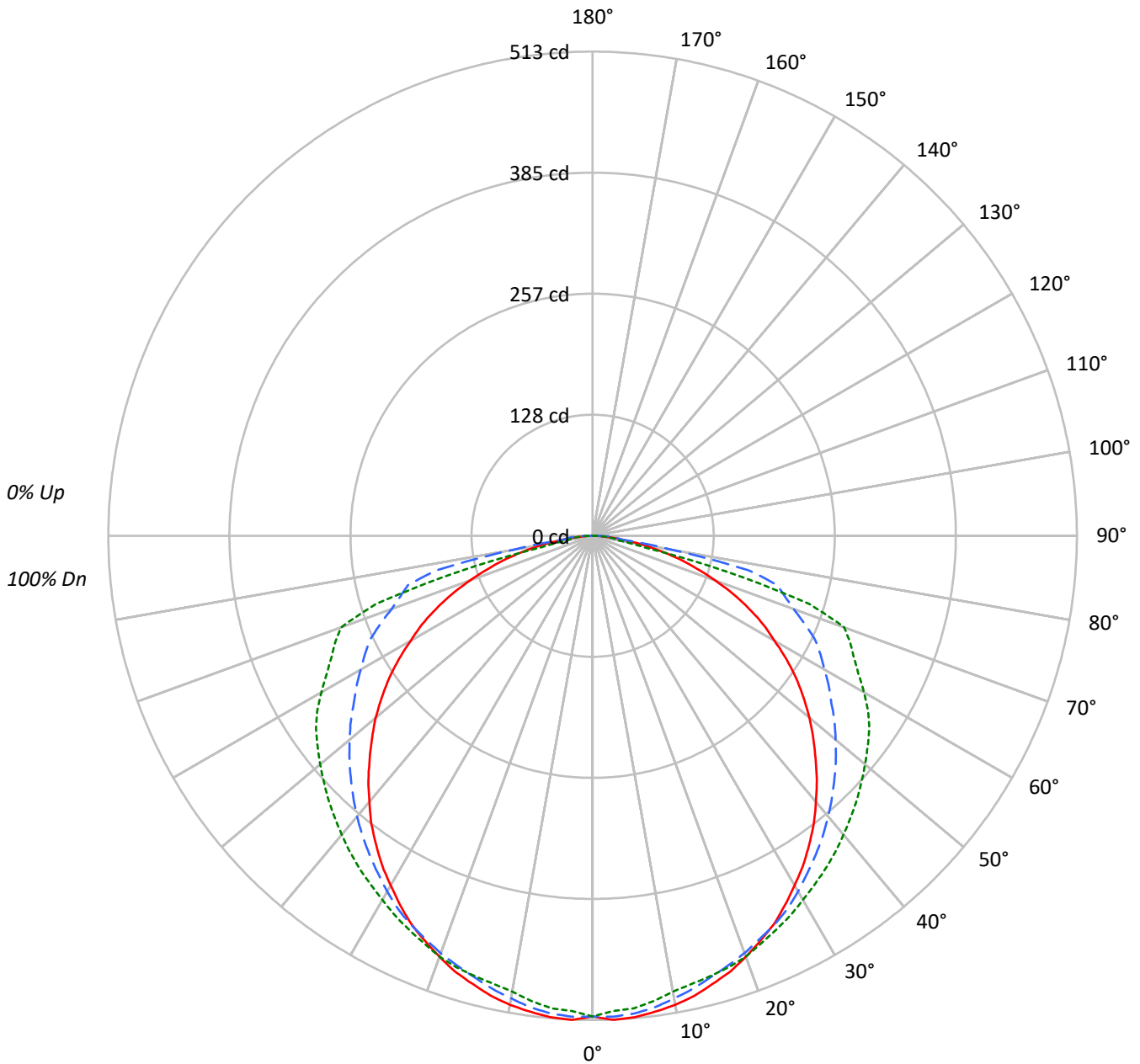
Input Watts (W): 12  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	50	30	10	50	30	10	0															
RCR																																													
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																											
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82																											
2	97	88	81	75	95	86	80	74	83	77	72	79	75	70	76	72	69	67																											
3	88	77	68	61	85	75	67	61	72	65	59	69	63	58	67	62	57	55																											
4	80	68	58	51	78	66	57	51	64	56	50	61	55	49	59	53	49	46																											
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40																											
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36	34																											
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30																											
8	58	44	35	29	57	44	35	29	42	34	29	41	34	29	40	33	29	27																											
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24																											
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22																											

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

	0°	45°	90°
0°	1495	1495	1495
5°	1509	1497	1481
10°	1504	1484	1462
15°	1494	1472	1467
20°	1483	1470	1483
25°	1471	1474	1491
30°	1450	1475	1510
35°	1433	1477	1543
40°	1410	1488	1584
45°	1386	1505	1643
50°	1370	1534	1721
55°	1347	1580	1831
60°	1306	1665	1948
65°	1271	1805	2121
70°	1185	1943	2434
75°	1072	2298	1658
80°	874	1425	472
85°	549	825	573



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	2.9
10°-20°	137.0	8.3
20°-30°	209.1	12.7
30°-40°	257.3	15.6
40°-50°	279.3	17.0
50°-60°	275.0	16.7
60°-70°	246.3	15.0
70°-80°	161.1	9.8
80°-90°	32.6	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	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°	394.1	23.9
0°-40°	651.4	39.6
0°-60°	1205.7	73.3
0°-90°	1645.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1645.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	512	505	508	506	502	49
15°	492	482	484	486	483	139
25°	454	441	455	460	460	209
35°	400	390	412	426	430	250
45°	334	332	362	387	396	258
55°	263	264	309	345	358	235
65°	183	198	260	292	305	180
75°	94	142	203	179	146	100
85°	16	46	24	18	17	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	509.3	509.3	509.3	509.3	509.3
2.5°	513.4	505.9	510.0	508.6	503.9
5°	512.0	504.6	508.0	505.9	502.5
7.5°	508.6	500.5	503.9	500.5	497.1
10°	504.6	496.4	497.8	494.4	490.3
12.5°	499.1	489.6	491.6	489.6	486.2
15°	491.6	482.1	484.2	485.5	482.8
17.5°	484.2	474.0	477.4	480.8	479.4
20°	474.6	463.8	470.6	475.3	474.6
22.5°	464.4	452.9	462.4	467.8	467.2
25°	454.2	441.3	454.9	460.4	460.4
27.5°	441.3	429.8	446.1	452.2	453.6
30°	427.7	416.8	435.2	443.4	445.4
32.5°	414.8	403.2	423.6	434.5	437.9
35°	399.8	389.6	412.1	425.7	430.4
37.5°	384.9	376.0	400.5	416.8	422.3
40°	367.9	361.8	388.3	407.3	413.4
42.5°	351.6	347.5	375.4	397.8	404.6
45°	333.9	331.8	362.4	386.9	395.8
47.5°	316.9	315.5	349.5	376.7	386.2
50°	299.9	298.5	335.9	365.8	376.7
52.5°	281.5	281.5	323.0	356.3	367.2
55°	263.2	264.5	308.7	344.8	357.7
57.5°	243.4	247.5	296.5	334.6	346.1
60°	222.4	230.5	283.6	322.3	331.8
62.5°	204.0	214.2	272.0	306.7	317.6
65°	182.9	197.9	259.8	292.4	305.3
67.5°	161.2	182.9	242.8	280.2	295.1
70°	138.0	168.0	226.4	269.3	283.6
72.5°	115.6	154.4	213.5	249.6	240.7
75°	94.5	142.1	202.6	178.8	146.2
77.5°	72.8	126.5	169.3	77.5	55.1
80°	51.7	112.2	84.3	27.9	27.9
82.5°	32.6	99.3	31.3	22.4	22.4
85°	16.3	46.2	24.5	17.7	17.0
87.5°	6.1	27.9	17.7	9.5	8.2
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







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







(END OF REPORT)