

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: P544591

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

Issue Date: 7/2/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P544591  
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-T8-1G-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: 1548.9 lumens  
Efficiency: N/A  
Efficacy: 156.5 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

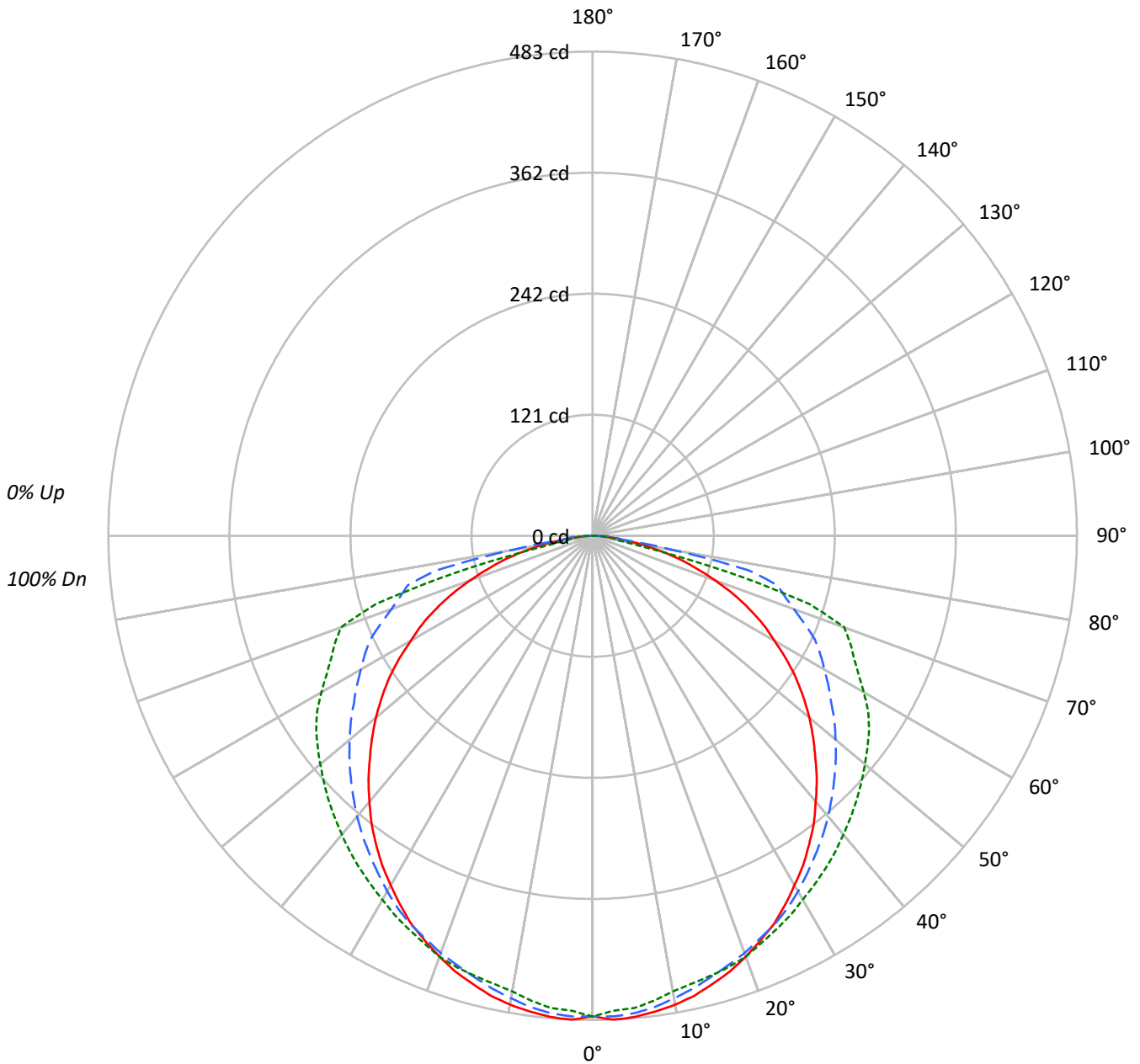
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	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	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°	1407	1407	1407
5°	1420	1409	1394
10°	1416	1397	1375
15°	1406	1385	1381
20°	1396	1384	1396
25°	1385	1387	1404
30°	1365	1389	1421
35°	1349	1390	1452
40°	1327	1400	1491
45°	1305	1416	1547
50°	1289	1444	1620
55°	1268	1487	1723
60°	1229	1567	1834
65°	1196	1698	1996
70°	1115	1829	2291
75°	1010	2163	1561
80°	822	1342	443
85°	519	775	539



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.2	2.9
10°-20°	128.9	8.3
20°-30°	196.8	12.7
30°-40°	242.1	15.6
40°-50°	262.9	17.0
50°-60°	258.8	16.7
60°-70°	231.8	15.0
70°-80°	151.6	9.8
80°-90°	30.7	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°	370.9	23.9
0°-40°	613.1	39.6
0°-60°	1134.8	73.3
0°-90°	1548.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1548.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	479	479	479	479	479	
5°	482	475	478	476	473	46
15°	463	454	456	457	454	131
25°	428	415	428	433	433	197
35°	376	367	388	401	405	235
45°	314	312	341	364	372	243
55°	248	249	291	324	337	221
65°	172	186	244	275	287	170
75°	89	134	191	168	138	94
85°	15	44	23	17	16	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	479.4	479.4	479.4	479.4	479.4
2.5°	483.2	476.2	480.0	478.7	474.2
5°	481.9	474.9	478.1	476.2	473.0
7.5°	478.7	471.0	474.2	471.0	467.8
10°	474.9	467.2	468.5	465.3	461.4
12.5°	469.8	460.8	462.7	460.8	457.6
15°	462.7	453.8	455.7	457.0	454.4
17.5°	455.7	446.1	449.3	452.5	451.2
20°	446.7	436.5	442.9	447.4	446.7
22.5°	437.1	426.2	435.2	440.3	439.7
25°	427.5	415.4	428.2	433.3	433.3
27.5°	415.4	404.5	419.8	425.6	426.9
30°	402.6	392.3	409.6	417.3	419.2
32.5°	390.4	379.5	398.7	409.0	412.2
35°	376.3	366.7	387.8	400.6	405.1
37.5°	362.2	353.9	377.0	392.3	397.4
40°	346.2	340.5	365.4	383.4	389.1
42.5°	330.9	327.0	353.3	374.4	380.8
45°	314.2	312.3	341.1	364.2	372.5
47.5°	298.2	297.0	329.0	354.6	363.5
50°	282.2	281.0	316.2	344.3	354.6
52.5°	265.0	265.0	304.0	335.4	345.6
55°	247.7	249.0	290.6	324.5	336.6
57.5°	229.1	233.0	279.0	314.9	325.8
60°	209.3	217.0	266.9	303.4	312.3
62.5°	192.0	201.6	256.0	288.6	298.9
65°	172.2	186.2	244.5	275.2	287.4
67.5°	151.7	172.2	228.5	263.7	277.8
70°	129.9	158.1	213.1	253.4	266.9
72.5°	108.8	145.3	201.0	234.9	226.6
75°	89.0	133.8	190.7	168.3	137.6
77.5°	68.5	119.0	159.4	73.0	51.8
80°	48.6	105.6	79.4	26.2	26.2
82.5°	30.7	93.4	29.4	21.1	21.1
85°	15.4	43.5	23.0	16.6	16.0
87.5°	5.8	26.2	16.6	9.0	7.7
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)