

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: P544595

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

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544595
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-B850-U-ICF-4FT-REFL
Description: 80CRI 5000K TLED with Reflector
Light Source: MainsFit Glass TLED - 4FT 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1597.3 lumens
Efficiency: N/A
Efficacy: 161.3 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

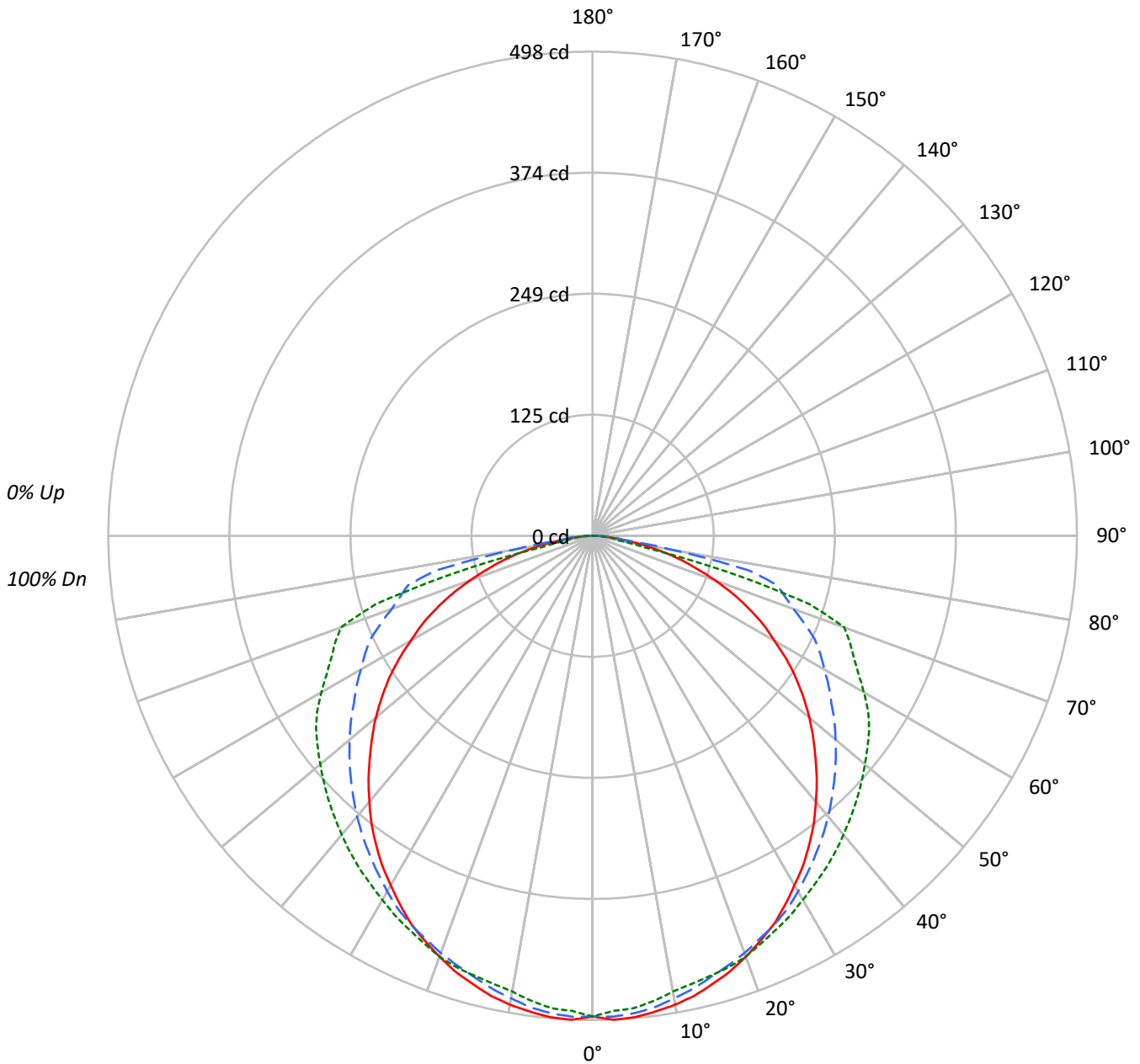
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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				100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82				82
2	97	88	81	75	95	86	80	74	83	77	72	79	75	70	76	72	69	67				67
3	88	77	68	61	85	75	67	61	72	65	59	69	63	58	67	62	57	55				55
4	80	68	58	51	78	66	57	51	64	56	50	61	55	49	59	53	49	46				46
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40				40
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36	34				34
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30				30
8	58	44	35	29	57	44	35	29	42	34	29	41	34	29	40	33	29	27				27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24				24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1451	1451	1451
5°	1465	1453	1437
10°	1460	1440	1419
15°	1450	1428	1424
20°	1439	1427	1439
25°	1428	1430	1447
30°	1407	1432	1465
35°	1391	1434	1497
40°	1369	1444	1538
45°	1346	1461	1595
50°	1330	1489	1670
55°	1307	1533	1777
60°	1267	1616	1891
65°	1233	1751	2058
70°	1150	1887	2362
75°	1040	2231	1610
80°	849	1383	458
85°	532	802	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	2.9
10°-20°	132.9	8.3
20°-30°	203.0	12.7
30°-40°	249.7	15.6
40°-50°	271.1	17.0
50°-60°	266.9	16.7
60°-70°	239.0	15.0
70°-80°	156.4	9.8
80°-90°	31.7	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°	382.5	23.9
0°-40°	632.2	39.6
0°-60°	1170.2	73.3
0°-90°	1597.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1597.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	497	490	493	491	488	47
15°	477	468	470	471	469	135
25°	441	428	442	447	447	203
35°	388	378	400	413	418	243
45°	324	322	352	376	384	250
55°	255	257	300	335	347	228
65°	178	192	252	284	296	175
75°	92	138	197	174	142	97
85°	16	45	24	17	16	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	494.3	494.3	494.3	494.3	494.3
2.5°	498.3	491.0	495.0	493.7	489.1
5°	497.0	489.7	493.0	491.0	487.7
7.5°	493.7	485.8	489.1	485.8	482.5
10°	489.7	481.8	483.1	479.8	475.9
12.5°	484.4	475.2	477.2	475.2	471.9
15°	477.2	467.9	469.9	471.2	468.6
17.5°	469.9	460.0	463.3	466.6	465.3
20°	460.7	450.1	456.7	461.3	460.7
22.5°	450.8	439.6	448.8	454.1	453.4
25°	440.9	428.3	441.5	446.8	446.8
27.5°	428.3	417.1	433.0	438.9	440.2
30°	415.1	404.6	422.4	430.3	432.3
32.5°	402.6	391.4	411.2	421.7	425.0
35°	388.1	378.2	400.0	413.2	417.8
37.5°	373.6	365.0	388.7	404.6	409.9
40°	357.1	351.1	376.9	395.3	401.3
42.5°	341.2	337.3	364.3	386.1	392.7
45°	324.1	322.1	351.8	375.5	384.1
47.5°	307.6	306.2	339.2	365.6	374.9
50°	291.1	289.7	326.0	355.1	365.6
52.5°	273.2	273.2	313.5	345.8	356.4
55°	255.4	256.7	299.6	334.6	347.2
57.5°	236.3	240.2	287.8	324.7	335.9
60°	215.8	223.7	275.2	312.8	322.1
62.5°	198.0	207.9	264.0	297.7	308.2
65°	177.5	192.1	252.1	283.8	296.3
67.5°	156.4	177.5	235.6	271.9	286.4
70°	134.0	163.0	219.8	261.4	275.2
72.5°	112.2	149.8	207.2	242.2	233.6
75°	91.7	137.9	196.7	173.6	141.9
77.5°	70.6	122.8	164.3	75.2	53.5
80°	50.2	108.9	81.8	27.1	27.1
82.5°	31.7	96.4	30.4	21.8	21.8
85°	15.8	44.9	23.8	17.2	16.5
87.5°	5.9	27.1	17.2	9.2	7.9
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)