

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: P544599

Luminaire Tested: **4SLES-1-T8-2G-B840-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544599
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-B840-U-ICF-4FT-REFL
Description: 80CRI 4000K TLED with Reflector
Light Source: MainsFit Glass TLED - 4FT 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1742.5 lumens
Efficiency: N/A
Efficacy: 145.2 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

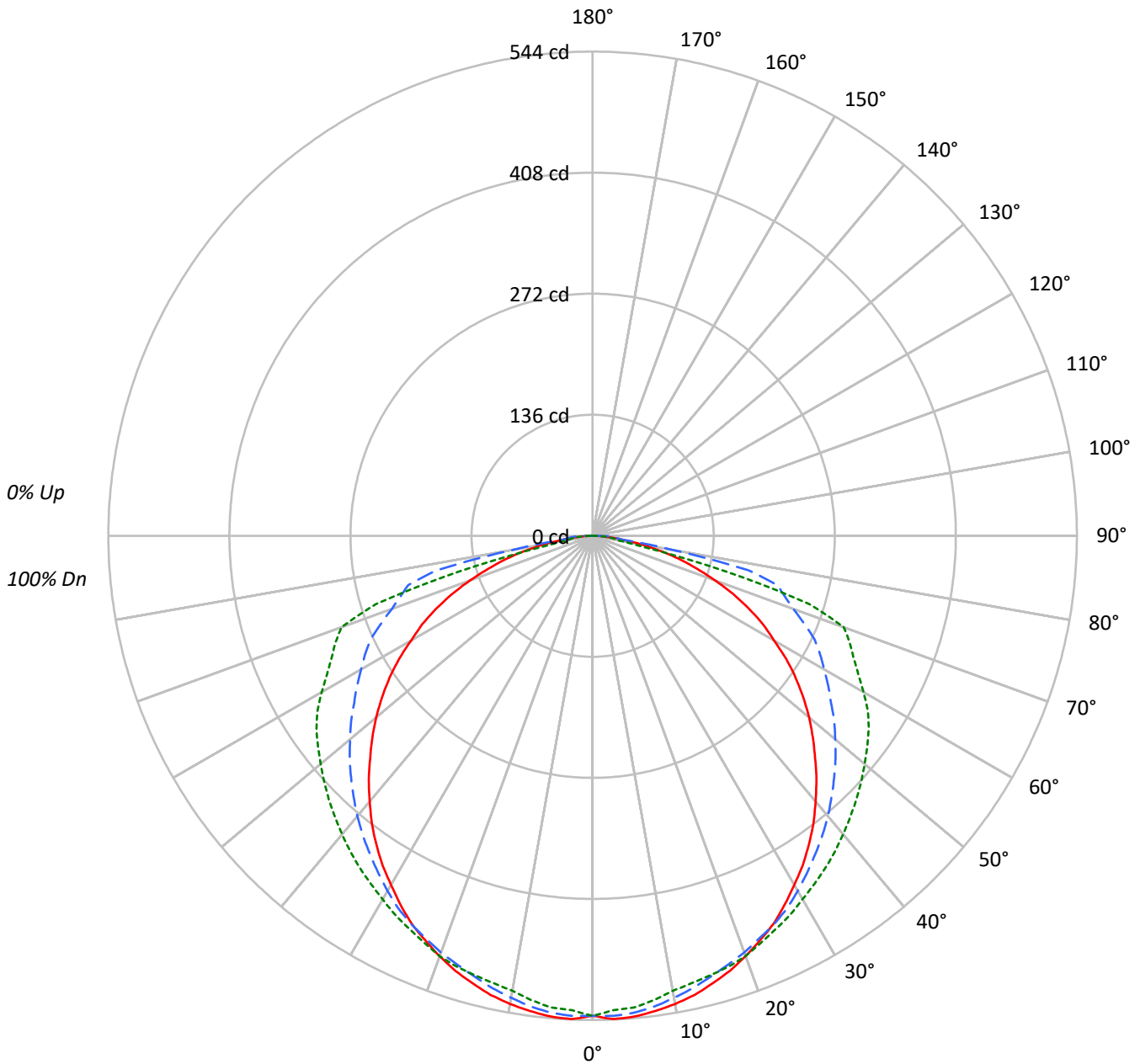
Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	1583	1583	1583
5°	1598	1585	1568
10°	1593	1571	1547
15°	1582	1558	1554
20°	1570	1556	1570
25°	1558	1560	1579
30°	1535	1562	1599
35°	1517	1564	1634
40°	1493	1576	1678
45°	1468	1593	1740
50°	1450	1625	1822
55°	1426	1673	1938
60°	1382	1763	2063
65°	1346	1910	2246
70°	1255	2058	2577
75°	1135	2434	1756
80°	925	1510	499
85°	583	872	606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	2.9
10°-20°	145.0	8.3
20°-30°	221.4	12.7
30°-40°	272.4	15.6
40°-50°	295.7	17.0
50°-60°	291.2	16.7
60°-70°	260.8	15.0
70°-80°	170.6	9.8
80°-90°	34.6	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°	417.3	23.9
0°-40°	689.7	39.6
0°-60°	1276.6	73.3
0°-90°	1742.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1742.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	539	539	539	539	539	
5°	542	534	538	536	532	51
15°	521	510	513	514	511	147
25°	481	467	482	487	487	221
35°	423	413	436	451	456	265
45°	354	351	384	410	419	273
55°	279	280	327	365	379	248
65°	194	210	275	310	323	191
75°	100	150	215	189	155	105
85°	17	49	26	19	18	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	539.3	539.3	539.3	539.3	539.3
2.5°	543.6	535.7	540.0	538.6	533.5
5°	542.2	534.2	537.8	535.7	532.1
7.5°	538.6	529.9	533.5	529.9	526.3
10°	534.2	525.6	527.0	523.4	519.1
12.5°	528.5	518.4	520.6	518.4	514.8
15°	520.6	510.5	512.6	514.1	511.2
17.5°	512.6	501.8	505.4	509.0	507.6
20°	502.6	491.0	498.2	503.3	502.6
22.5°	491.8	479.5	489.6	495.4	494.6
25°	481.0	467.3	481.7	487.4	487.4
27.5°	467.3	455.0	472.3	478.8	480.2
30°	452.9	441.4	460.8	469.4	471.6
32.5°	439.2	427.0	448.6	460.1	463.7
35°	423.4	412.6	436.3	450.7	455.8
37.5°	407.5	398.2	424.1	441.4	447.1
40°	389.5	383.0	411.1	431.3	437.8
42.5°	372.2	367.9	397.4	421.2	428.4
45°	353.5	351.4	383.8	409.7	419.0
47.5°	335.5	334.1	370.1	398.9	409.0
50°	317.5	316.1	355.7	387.4	398.9
52.5°	298.1	298.1	342.0	377.3	388.8
55°	278.6	280.1	326.9	365.0	378.7
57.5°	257.8	262.1	313.9	354.2	366.5
60°	235.4	244.1	300.2	341.3	351.4
62.5°	216.0	226.8	288.0	324.7	336.2
65°	193.7	209.5	275.0	309.6	323.3
67.5°	170.6	193.7	257.0	296.6	312.5
70°	146.2	177.8	239.8	285.1	300.2
72.5°	122.4	163.4	226.1	264.2	254.9
75°	100.1	150.5	214.6	189.4	154.8
77.5°	77.0	133.9	179.3	82.1	58.3
80°	54.7	118.8	89.3	29.5	29.5
82.5°	34.6	105.1	33.1	23.8	23.8
85°	17.3	49.0	25.9	18.7	18.0
87.5°	6.5	29.5	18.7	10.1	8.6
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)