

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: P544637

Luminaire Tested: **8TSLES-1-T8-2G-B850-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544637
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: 8TSLES-1-T8-2G-B850-U-ICF-4FT-REFL
Description: 80CRI 5000K TLED with Reflector
Light Source: MainsFit Glass TLED - (2) 4FT 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3485.0 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: 8' x H: 0')
CIE Type: Direct

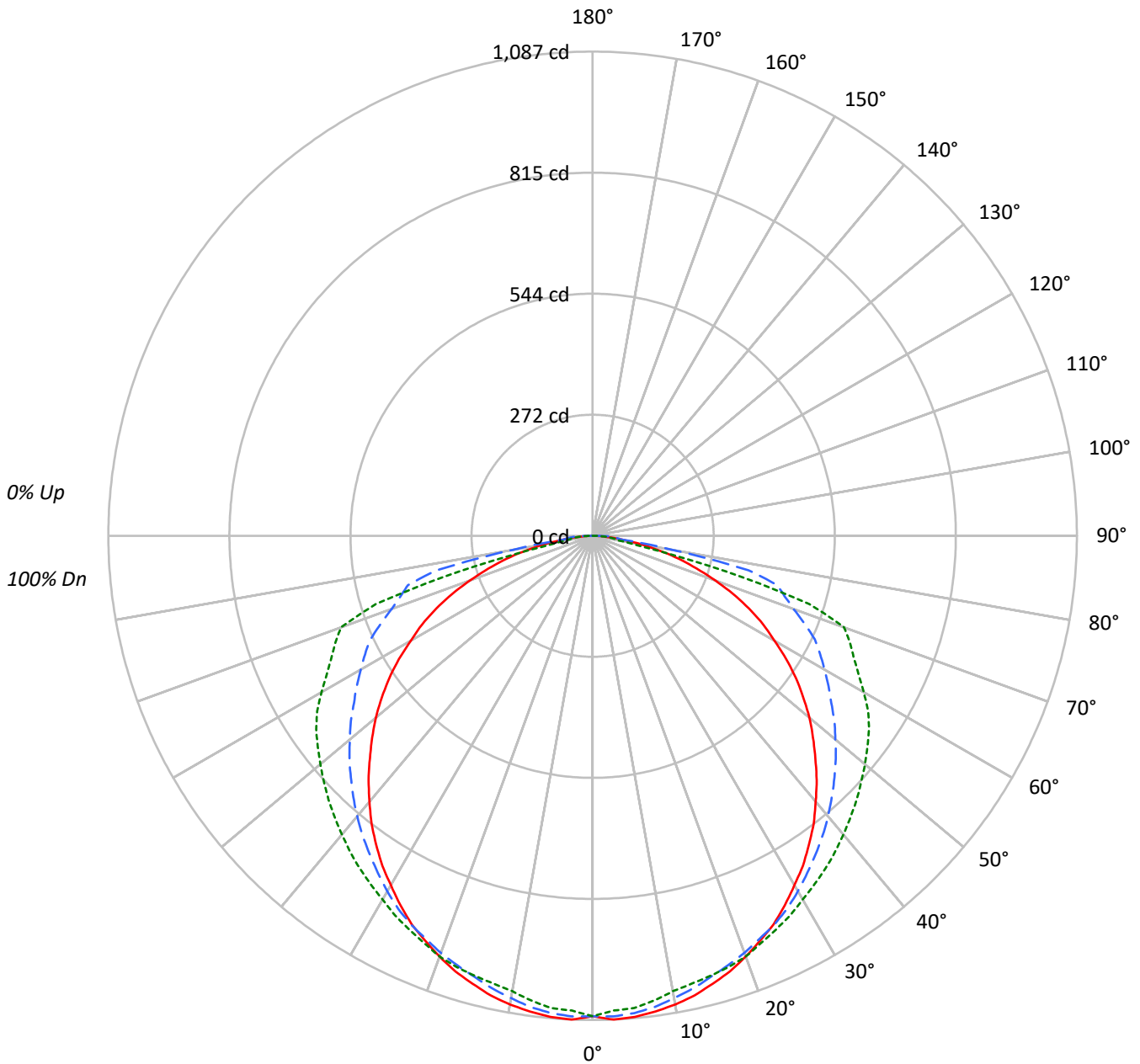
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	1557	1570
25°	1558	1560	1579
30°	1535	1562	1599
35°	1517	1564	1633
40°	1493	1576	1678
45°	1468	1593	1740
50°	1450	1625	1822
55°	1426	1673	1938
60°	1382	1763	2063
65°	1346	1911	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°	101.7	2.9
10°-20°	290.1	8.3
20°-30°	442.9	12.7
30°-40°	544.8	15.6
40°-50°	591.4	17.0
50°-60°	582.4	16.7
60°-70°	521.5	15.0
70°-80°	341.2	9.8
80°-90°	69.1	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°	834.6	23.9
0°-40°	1379.4	39.6
0°-60°	2553.2	73.3
0°-90°	3485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1079	1079	1079	1079	1079	
5°	1084	1068	1076	1071	1064	103
15°	1041	1021	1025	1028	1022	294
25°	962	935	963	975	975	442
35°	847	825	873	901	912	530
45°	707	703	768	819	838	546
55°	557	560	654	730	757	497
65°	387	419	550	619	647	382
75°	200	301	429	379	310	211
85°	35	98	52	37	36	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078.6	1078.6	1078.6	1078.6	1078.6
2.5°	1087.2	1071.4	1080.0	1077.1	1067.0
5°	1084.3	1068.5	1075.7	1071.4	1064.2
7.5°	1077.1	1059.8	1067.0	1059.8	1052.6
10°	1068.5	1051.2	1054.1	1046.9	1038.2
12.5°	1057.0	1036.8	1041.1	1036.8	1029.6
15°	1041.1	1021.0	1025.3	1028.2	1022.4
17.5°	1025.3	1003.7	1010.9	1018.1	1015.2
20°	1005.1	982.1	996.5	1006.6	1005.1
22.5°	983.5	959.0	979.2	990.7	989.3
25°	961.9	934.6	963.4	974.9	974.9
27.5°	934.6	910.1	944.6	957.6	960.5
30°	905.8	882.7	921.6	938.9	943.2
32.5°	878.4	853.9	897.1	920.2	927.4
35°	846.7	825.1	872.6	901.4	911.5
37.5°	815.0	796.3	848.2	882.7	894.2
40°	779.0	766.1	822.2	862.6	875.5
42.5°	744.5	735.8	794.9	842.4	856.8
45°	707.0	702.7	767.5	819.4	838.1
47.5°	671.0	668.2	740.2	797.8	817.9
50°	635.0	632.2	711.4	774.7	797.8
52.5°	596.2	596.2	684.0	754.6	777.6
55°	557.3	560.2	653.8	730.1	757.4
57.5°	515.5	524.2	627.8	708.5	733.0
60°	470.9	488.2	600.5	682.6	702.7
62.5°	432.0	453.6	576.0	649.4	672.5
65°	387.4	419.0	550.1	619.2	646.6
67.5°	341.3	387.4	514.1	593.3	625.0
70°	292.3	355.7	479.5	570.2	600.5
72.5°	244.8	326.9	452.2	528.5	509.8
75°	200.2	301.0	429.1	378.7	309.6
77.5°	154.1	267.8	358.6	164.2	116.6
80°	109.4	237.6	178.6	59.0	59.0
82.5°	69.1	210.2	66.2	47.5	47.5
85°	34.6	97.9	51.8	37.4	36.0
87.5°	13.0	59.0	37.4	20.2	17.3
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)