

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: P544627

Luminaire Tested: **8TSLES-1-T8-1G-B835-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544627
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-T8-1G-B835-U-ICF-4FT-REFL
Description: 80CRI 3500K TLED with Reflector
Light Source: MainsFit Glass TLED - (2) 4FT 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3097.8 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: 8' x H: 0')
CIE Type: Direct

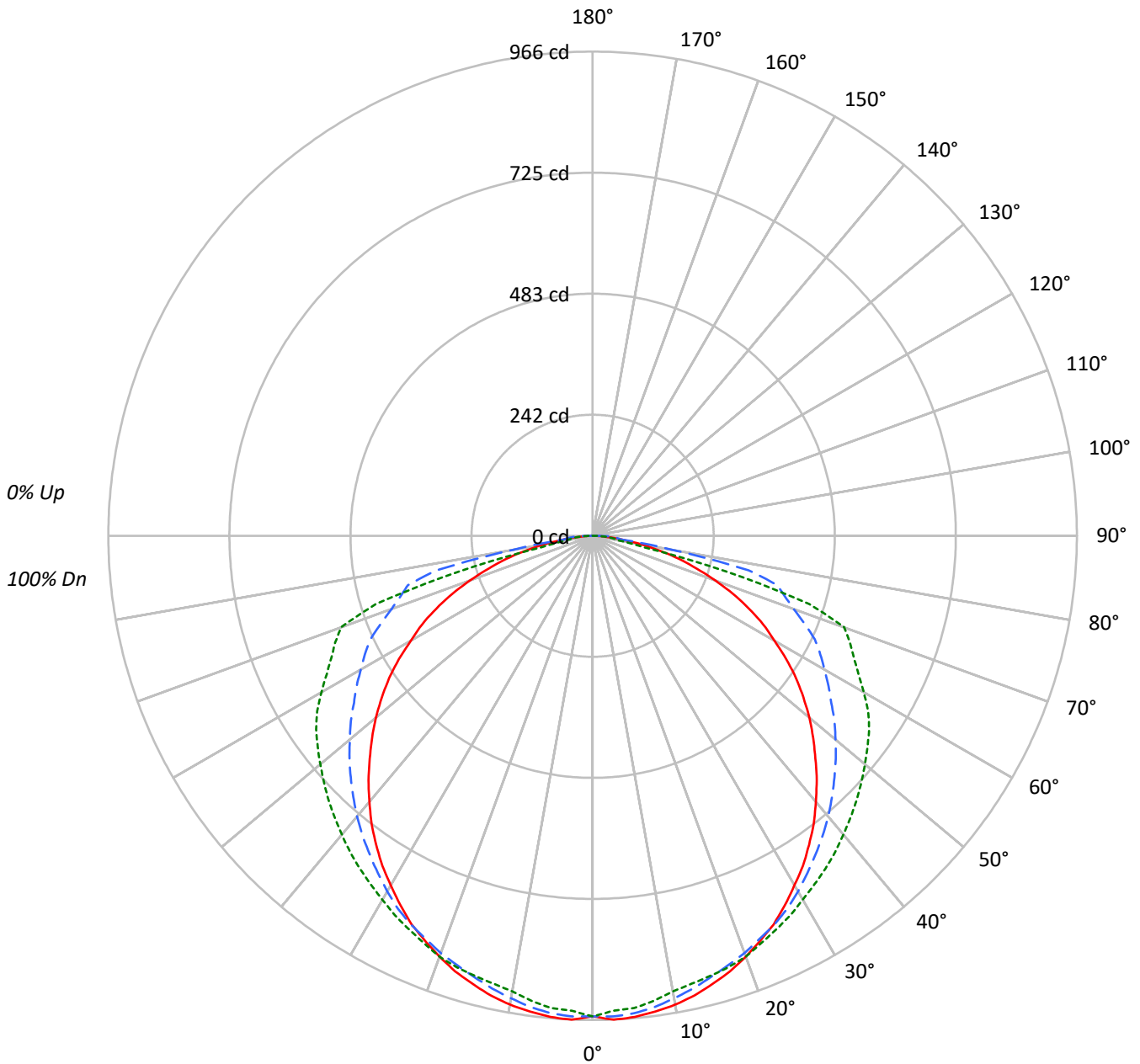
Input Watts (W): 19.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1407	1407	1407
5°	1420	1409	1394
10°	1416	1397	1376
15°	1406	1385	1381
20°	1396	1384	1396
25°	1385	1387	1404
30°	1365	1389	1421
35°	1349	1390	1452
40°	1327	1401	1491
45°	1305	1416	1547
50°	1289	1444	1619
55°	1268	1487	1723
60°	1229	1567	1834
65°	1196	1698	1996
70°	1115	1829	2291
75°	1009	2163	1561
80°	823	1342	444
85°	517	776	539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	2.9
10°-20°	257.8	8.3
20°-30°	393.6	12.7
30°-40°	484.3	15.6
40°-50°	525.7	17.0
50°-60°	517.7	16.7
60°-70°	463.6	15.0
70°-80°	303.3	9.8
80°-90°	61.4	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°	741.8	23.9
0°-40°	1226.1	39.6
0°-60°	2269.5	73.3
0°-90°	3097.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3097.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	964	950	956	952	946	91
15°	925	908	911	914	909	261
25°	855	831	856	867	867	393
35°	753	733	776	801	810	471
45°	628	625	682	728	745	486
55°	495	498	581	649	673	442
65°	344	372	489	550	575	339
75°	178	268	381	337	275	187
85°	31	87	46	33	32	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.7	958.7	958.7	958.7	958.7
2.5°	966.4	952.3	960.0	957.4	948.5
5°	963.8	949.8	956.2	952.3	945.9
7.5°	957.4	942.1	948.5	942.1	935.7
10°	949.8	934.4	937.0	930.6	922.9
12.5°	939.5	921.6	925.4	921.6	915.2
15°	925.4	907.5	911.4	913.9	908.8
17.5°	911.4	892.2	898.6	905.0	902.4
20°	893.4	873.0	885.8	894.7	893.4
22.5°	874.2	852.5	870.4	880.6	879.4
25°	855.0	830.7	856.3	866.6	866.6
27.5°	830.7	809.0	839.7	851.2	853.8
30°	805.1	784.6	819.2	834.6	838.4
32.5°	780.8	759.0	797.4	817.9	824.3
35°	752.6	733.4	775.7	801.3	810.2
37.5°	724.5	707.8	753.9	784.6	794.9
40°	692.5	681.0	730.9	766.7	778.2
42.5°	661.8	654.1	706.6	748.8	761.6
45°	628.5	624.6	682.2	728.3	745.0
47.5°	596.5	593.9	657.9	709.1	727.0
50°	564.5	561.9	632.3	688.6	709.1
52.5°	529.9	529.9	608.0	670.7	691.2
55°	495.4	497.9	581.1	649.0	673.3
57.5°	458.2	465.9	558.1	629.8	651.5
60°	418.6	433.9	533.8	606.7	624.6
62.5°	384.0	403.2	512.0	577.3	597.8
65°	344.3	372.5	489.0	550.4	574.7
67.5°	303.4	344.3	457.0	527.4	555.5
70°	259.8	316.2	426.2	506.9	533.8
72.5°	217.6	290.6	401.9	469.8	453.1
75°	177.9	267.5	381.4	336.6	275.2
77.5°	137.0	238.1	318.7	145.9	103.7
80°	97.3	211.2	158.7	52.5	52.5
82.5°	61.4	186.9	58.9	42.2	42.2
85°	30.7	87.0	46.1	33.3	32.0
87.5°	11.5	52.5	33.3	17.9	15.4
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)