

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: P544631

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

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544631
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-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: 3194.6 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: 8' x H: 0')
CIE Type: Direct

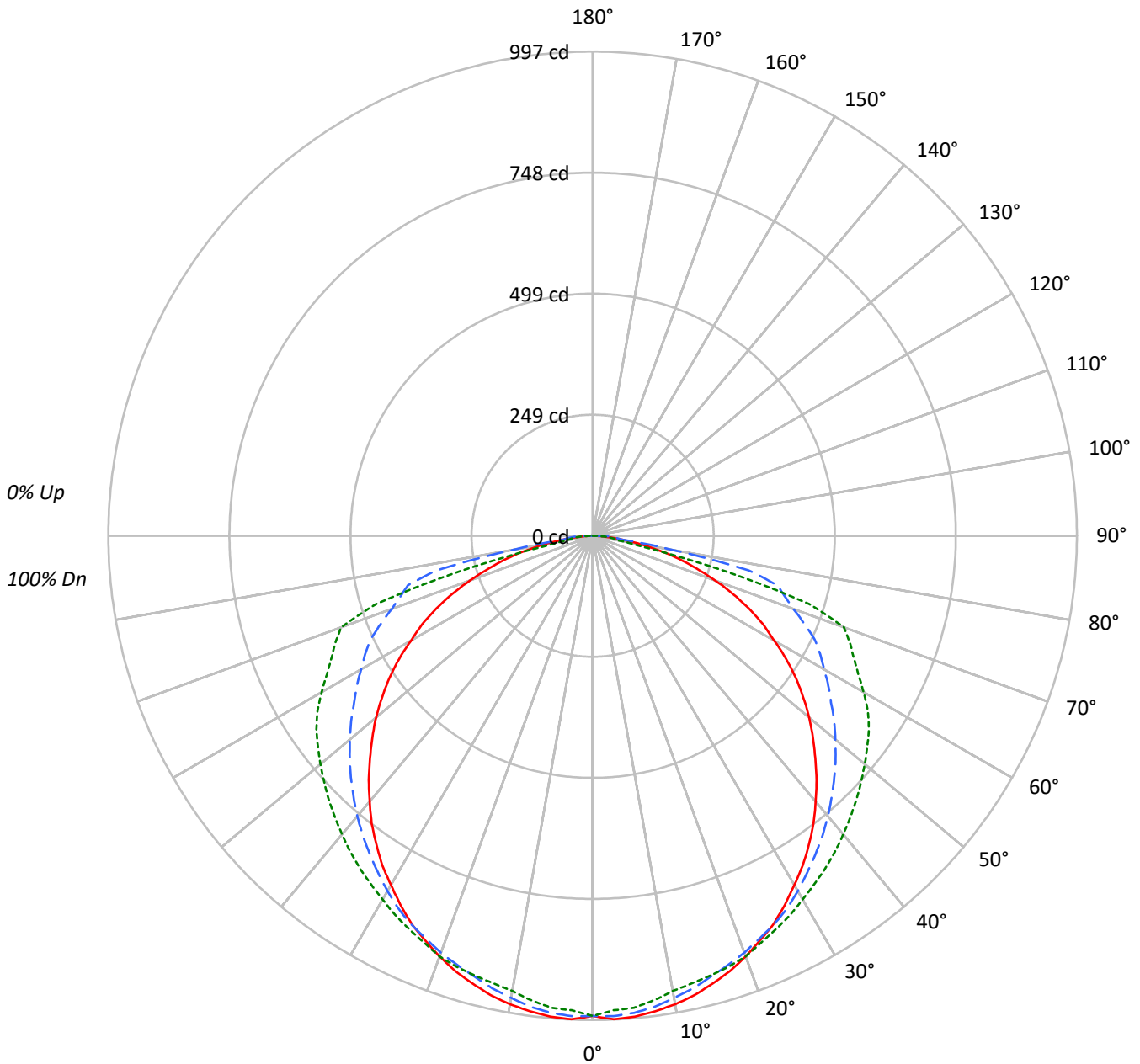
Input Watts (W): 19.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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°	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	1433	1497
40°	1368	1444	1538
45°	1345	1461	1595
50°	1329	1489	1670
55°	1307	1534	1777
60°	1267	1616	1891
65°	1233	1751	2059
70°	1150	1887	2362
75°	1041	2231	1610
80°	848	1384	457
85°	534	800	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	2.9
10°-20°	265.9	8.3
20°-30°	405.9	12.7
30°-40°	499.4	15.6
40°-50°	542.1	17.0
50°-60°	533.8	16.7
60°-70°	478.1	15.0
70°-80°	312.7	9.8
80°-90°	63.4	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°	765.0	23.9
0°-40°	1264.5	39.6
0°-60°	2340.4	73.3
0°-90°	3194.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3194.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	994	979	986	982	976	94
15°	954	936	940	942	937	269
25°	882	857	883	894	894	406
35°	776	756	800	826	836	486
45°	648	644	704	751	768	501
55°	511	514	599	669	694	456
65°	355	384	504	568	593	350
75°	184	276	393	347	284	193
85°	32	90	48	34	33	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.7	988.7	988.7	988.7	988.7
2.5°	996.6	982.1	990.0	987.4	978.1
5°	994.0	979.4	986.0	982.1	975.5
7.5°	987.4	971.5	978.1	971.5	964.9
10°	979.4	963.6	966.2	959.6	951.7
12.5°	968.9	950.4	954.4	950.4	943.8
15°	954.4	935.9	939.8	942.5	937.2
17.5°	939.8	920.0	926.6	933.2	930.6
20°	921.4	900.2	913.4	922.7	921.4
22.5°	901.6	879.1	897.6	908.2	906.8
25°	881.8	856.7	883.1	893.6	893.6
27.5°	856.7	834.2	865.9	877.8	880.4
30°	830.3	809.2	844.8	860.6	864.6
32.5°	805.2	782.8	822.4	843.5	850.1
35°	776.2	756.4	799.9	826.3	835.6
37.5°	747.1	730.0	777.5	809.2	819.7
40°	714.1	702.2	753.7	790.7	802.6
42.5°	682.4	674.5	728.6	772.2	785.4
45°	648.1	644.2	703.6	751.1	768.2
47.5°	615.1	612.5	678.5	731.3	749.8
50°	582.1	579.5	652.1	710.2	731.3
52.5°	546.5	546.5	627.0	691.7	712.8
55°	510.8	513.5	599.3	669.2	694.3
57.5°	472.6	480.5	575.5	649.4	671.9
60°	431.6	447.5	550.4	625.7	644.2
62.5°	396.0	415.8	528.0	595.3	616.4
65°	355.1	384.1	504.2	567.6	592.7
67.5°	312.8	355.1	471.2	543.8	572.9
70°	268.0	326.0	439.6	522.7	550.4
72.5°	224.4	299.6	414.5	484.4	467.3
75°	183.5	275.9	393.4	347.2	283.8
77.5°	141.2	245.5	328.7	150.5	106.9
80°	100.3	217.8	163.7	54.1	54.1
82.5°	63.4	192.7	60.7	43.6	43.6
85°	31.7	89.8	47.5	34.3	33.0
87.5°	11.9	54.1	34.3	18.5	15.8
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)