

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: P544657

Luminaire Tested: **8TSLES-2-T8-3G-B835-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-256-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/2/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8TSLES-2-T8-3G-B835-U-ICF-4FT-REFL
Description: 80CRI 3500K TLED with Reflector
Light Source: MainsFit Glass TLED - (4) 4FT 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7794.4 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.35 / 1.44
Luminous Opening: Rectangular (W 0.92' x L: 8' x H: 0')
CIE Type: Direct

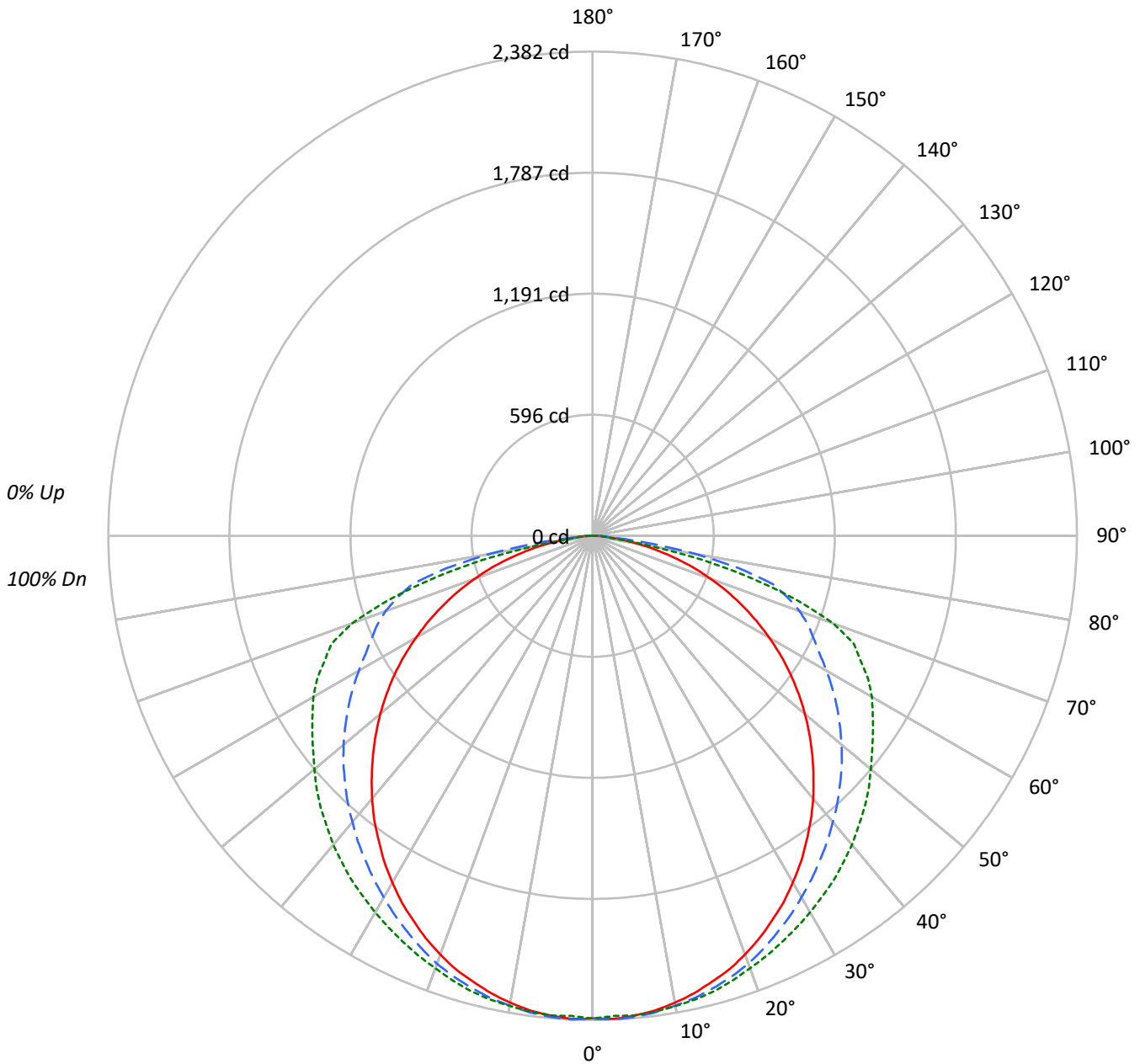
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P544657

CATALOG NUMBER: 8TSLES-2-T8-3G-B835-U-ICF-4FT-REFL

Luminous Intensity Polar Plot





TEST NUMBER: P544657

CATALOG NUMBER: 8TSLES-2-T8-3G-B835-U-ICF-4FT-REFL

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	92	89	92	89	86	88	86	84	82				82
2	97	88	81	75	94	86	79	74	83	77	72	79	75	70	76	72	69	66				66
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	67	61	57	55				55
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46				46
5	73	60	50	43	71	59	50	43	57	49	43	55	48	42	53	47	42	39				39
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	43	35	29	42	34	29	41	34	29	40	33	29	27				27
9	54	40	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	28	24	35	28	23	34	28	23	21				21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3485	3485	3485
5°	3492	3501	3489
10°	3477	3499	3501
15°	3450	3499	3523
20°	3424	3499	3537
25°	3382	3486	3571
30°	3338	3482	3626
35°	3286	3492	3704
40°	3235	3523	3802
45°	3172	3574	3926
50°	3113	3650	4078
55°	3042	3755	4308
60°	2945	3899	4655
65°	2823	4168	5052
70°	2637	4649	5397
75°	2341	5200	4619
80°	1921	4301	2421
85°	1213	1482	1186



TEST NUMBER: P544657

CATALOG NUMBER: 8TSLES-2-T8-3G-B835-U-ICF-4FT-REFL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	2.9
10°-20°	647.0	8.3
20°-30°	988.7	12.7
30°-40°	1218.2	15.6
40°-50°	1320.5	16.9
50°-60°	1294.1	16.6
60°-70°	1156.5	14.8
70°-80°	778.0	10.0
80°-90°	166.4	2.1
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°	1860.6	23.9
0°-40°	3078.9	39.5
0°-60°	5693.5	73.0
0°-90°	7794.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7794.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2374	2374	2374	2374	2374	
5°	2370	2341	2376	2376	2368	225
15°	2270	2251	2302	2320	2318	641
25°	2088	2083	2152	2190	2205	963
35°	1834	1848	1949	2032	2067	1148
45°	1528	1562	1722	1845	1891	1179
55°	1189	1256	1467	1621	1683	1061
65°	813	941	1200	1397	1454	803
75°	413	634	917	856	814	440
85°	72	251	88	70	70	97
90°	0	0	0	0	0	



TEST NUMBER: P544657

CATALOG NUMBER: 8TSLES-2-T8-3G-B835-U-ICF-4FT-REFL

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2374.4	2374.4	2374.4	2374.4	2374.4
2.5°	2379.2	2347.2	2382.4	2382.4	2364.8
5°	2369.6	2340.8	2376.0	2376.0	2368.0
7.5°	2355.2	2328.0	2364.8	2364.8	2361.6
10°	2332.8	2307.2	2347.2	2352.0	2348.8
12.5°	2305.6	2281.6	2328.0	2337.6	2336.0
15°	2270.4	2251.2	2302.4	2320.0	2318.4
17.5°	2236.8	2216.0	2273.6	2294.4	2292.8
20°	2192.0	2176.0	2240.0	2259.2	2264.0
22.5°	2144.0	2131.2	2198.4	2224.0	2236.8
25°	2088.0	2083.2	2152.0	2190.4	2204.8
27.5°	2033.6	2028.8	2105.6	2156.8	2172.8
30°	1969.6	1972.8	2054.4	2115.2	2139.2
32.5°	1905.6	1912.0	2003.2	2073.6	2102.4
35°	1833.6	1848.0	1948.8	2032.0	2067.2
37.5°	1763.2	1780.8	1896.0	1990.4	2025.6
40°	1688.0	1708.8	1838.4	1944.0	1984.0
42.5°	1608.0	1636.8	1782.4	1894.4	1936.0
45°	1528.0	1561.6	1721.6	1844.8	1891.2
47.5°	1446.4	1488.0	1662.4	1793.6	1841.6
50°	1363.2	1412.8	1598.4	1737.6	1785.6
52.5°	1276.8	1334.4	1532.8	1676.8	1732.8
55°	1188.8	1256.0	1467.2	1620.8	1683.2
57.5°	1097.6	1179.2	1398.4	1568.0	1633.6
60°	1003.2	1099.2	1328.0	1516.8	1585.6
62.5°	908.8	1020.8	1259.2	1467.2	1528.0
65°	812.8	940.8	1200.0	1396.8	1454.4
67.5°	715.2	862.4	1147.2	1326.4	1390.4
70°	614.4	785.6	1083.2	1248.0	1257.6
72.5°	518.4	705.6	1004.8	1081.6	1054.4
75°	412.8	633.6	916.8	856.0	814.4
77.5°	318.4	579.2	732.8	612.8	561.6
80°	227.2	513.6	508.8	345.6	286.4
82.5°	145.6	427.2	270.4	107.2	88.0
85°	72.0	251.2	88.0	70.4	70.4
87.5°	25.6	99.2	60.8	41.6	36.8
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)