

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: P544659

Luminaire Tested: **8TSLES-2-T8-3G-B840-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544659
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-B840-U-ICF-4FT-REFL
Description: 80CRI 4000K TLED with Reflector
Light Source: MainsFit Glass TLED - (4) 4FT 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8184.1 lumens
Efficiency: N/A
Efficacy: 141.1 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

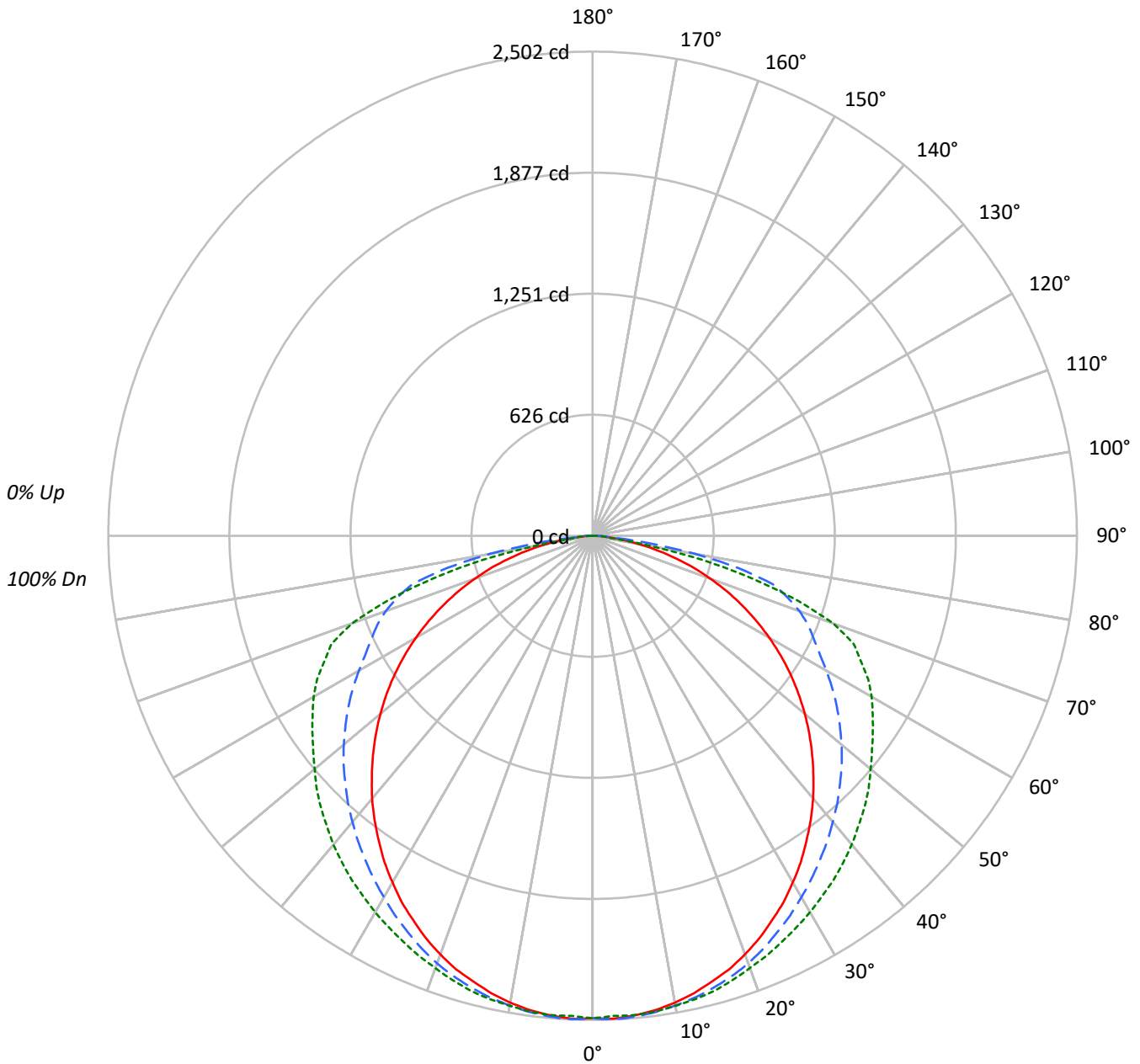
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3660	3660	3660
5°	3666	3676	3664
10°	3651	3674	3676
15°	3623	3674	3699
20°	3595	3674	3713
25°	3551	3660	3750
30°	3505	3656	3807
35°	3450	3667	3890
40°	3396	3699	3992
45°	3331	3753	4122
50°	3269	3833	4282
55°	3194	3943	4523
60°	3093	4094	4888
65°	2964	4376	5304
70°	2769	4882	5667
75°	2458	5459	4850
80°	2017	4516	2542
85°	1273	1556	1245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.1	2.9
10°-20°	679.4	8.3
20°-30°	1038.2	12.7
30°-40°	1279.1	15.6
40°-50°	1386.5	16.9
50°-60°	1358.8	16.6
60°-70°	1214.3	14.8
70°-80°	816.9	10.0
80°-90°	174.7	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°	1953.7	23.9
0°-40°	3232.8	39.5
0°-60°	5978.2	73.0
0°-90°	8184.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8184.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2493	2493	2493	2493	2493	
5°	2488	2458	2495	2495	2486	236
15°	2384	2364	2418	2436	2434	673
25°	2192	2187	2260	2300	2315	1011
35°	1925	1940	2046	2134	2171	1205
45°	1604	1640	1808	1937	1986	1238
55°	1248	1319	1541	1702	1767	1115
65°	853	988	1260	1467	1527	843
75°	433	665	963	899	855	462
85°	76	264	92	74	74	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2493.1	2493.1	2493.1	2493.1	2493.1
2.5°	2498.2	2464.6	2501.5	2501.5	2483.0
5°	2488.1	2457.8	2494.8	2494.8	2486.4
7.5°	2473.0	2444.4	2483.0	2483.0	2479.7
10°	2449.4	2422.6	2464.6	2469.6	2466.2
12.5°	2420.9	2395.7	2444.4	2454.5	2452.8
15°	2383.9	2363.8	2417.5	2436.0	2434.3
17.5°	2348.6	2326.8	2387.3	2409.1	2407.4
20°	2301.6	2284.8	2352.0	2372.2	2377.2
22.5°	2251.2	2237.8	2308.3	2335.2	2348.6
25°	2192.4	2187.4	2259.6	2299.9	2315.0
27.5°	2135.3	2130.2	2210.9	2264.6	2281.4
30°	2068.1	2071.4	2157.1	2221.0	2246.2
32.5°	2000.9	2007.6	2103.4	2177.3	2207.5
35°	1925.3	1940.4	2046.2	2133.6	2170.6
37.5°	1851.4	1869.8	1990.8	2089.9	2126.9
40°	1772.4	1794.2	1930.3	2041.2	2083.2
42.5°	1688.4	1718.6	1871.5	1989.1	2032.8
45°	1604.4	1639.7	1807.7	1937.0	1985.8
47.5°	1518.7	1562.4	1745.5	1883.3	1933.7
50°	1431.4	1483.4	1678.3	1824.5	1874.9
52.5°	1340.6	1401.1	1609.4	1760.6	1819.4
55°	1248.2	1318.8	1540.6	1701.8	1767.4
57.5°	1152.5	1238.2	1468.3	1646.4	1715.3
60°	1053.4	1154.2	1394.4	1592.6	1664.9
62.5°	954.2	1071.8	1322.2	1540.6	1604.4
65°	853.4	987.8	1260.0	1466.6	1527.1
67.5°	751.0	905.5	1204.6	1392.7	1459.9
70°	645.1	824.9	1137.4	1310.4	1320.5
72.5°	544.3	740.9	1055.0	1135.7	1107.1
75°	433.4	665.3	962.6	898.8	855.1
77.5°	334.3	608.2	769.4	643.4	589.7
80°	238.6	539.3	534.2	362.9	300.7
82.5°	152.9	448.6	283.9	112.6	92.4
85°	75.6	263.8	92.4	73.9	73.9
87.5°	26.9	104.2	63.8	43.7	38.6
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)