

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: P544645

Luminaire Tested: **8TSLES-2-T8-1G-B835-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544645
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-T8-1G-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: 6235.5 lumens
Efficiency: N/A
Efficacy: 157.5 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

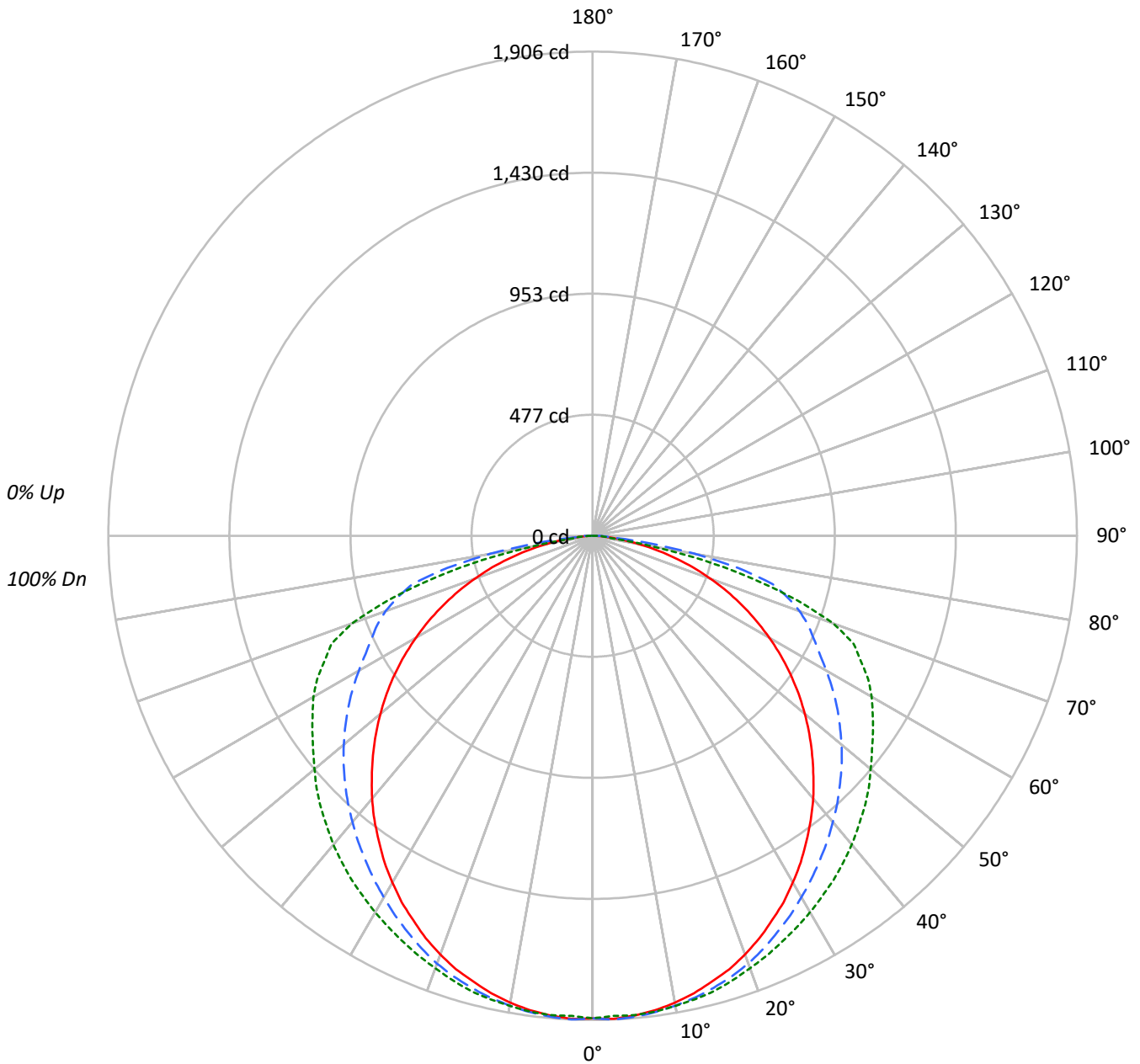
Input Watts (W): 39.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2788	2788	2788
5°	2793	2801	2791
10°	2782	2799	2801
15°	2760	2799	2819
20°	2739	2799	2829
25°	2705	2788	2857
30°	2671	2786	2901
35°	2629	2794	2964
40°	2588	2818	3041
45°	2538	2859	3141
50°	2491	2920	3262
55°	2434	3004	3446
60°	2356	3119	3724
65°	2258	3334	4041
70°	2109	3719	4318
75°	1873	4160	3695
80°	1537	3441	1937
85°	970	1186	948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	2.9
10°-20°	517.6	8.3
20°-30°	791.0	12.7
30°-40°	974.6	15.6
40°-50°	1056.4	16.9
50°-60°	1035.3	16.6
60°-70°	925.2	14.8
70°-80°	622.4	10.0
80°-90°	133.1	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°	1488.5	23.9
0°-40°	2463.1	39.5
0°-60°	4554.8	73.0
0°-90°	6235.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6235.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1896	1873	1901	1901	1894	180
15°	1816	1801	1842	1856	1855	513
25°	1670	1667	1722	1752	1764	770
35°	1467	1478	1559	1626	1654	918
45°	1222	1249	1377	1476	1513	943
55°	951	1005	1174	1297	1347	849
65°	650	753	960	1117	1164	642
75°	330	507	733	685	652	352
85°	58	201	70	56	56	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1899.5	1899.5	1899.5	1899.5	1899.5
2.5°	1903.4	1877.8	1905.9	1905.9	1891.8
5°	1895.7	1872.6	1900.8	1900.8	1894.4
7.5°	1884.2	1862.4	1891.8	1891.8	1889.3
10°	1866.2	1845.8	1877.8	1881.6	1879.0
12.5°	1844.5	1825.3	1862.4	1870.1	1868.8
15°	1816.3	1801.0	1841.9	1856.0	1854.7
17.5°	1789.4	1772.8	1818.9	1835.5	1834.2
20°	1753.6	1740.8	1792.0	1807.4	1811.2
22.5°	1715.2	1705.0	1758.7	1779.2	1789.4
25°	1670.4	1666.6	1721.6	1752.3	1763.8
27.5°	1626.9	1623.0	1684.5	1725.4	1738.2
30°	1575.7	1578.2	1643.5	1692.2	1711.4
32.5°	1524.5	1529.6	1602.6	1658.9	1681.9
35°	1466.9	1478.4	1559.0	1625.6	1653.8
37.5°	1410.6	1424.6	1516.8	1592.3	1620.5
40°	1350.4	1367.0	1470.7	1555.2	1587.2
42.5°	1286.4	1309.4	1425.9	1515.5	1548.8
45°	1222.4	1249.3	1377.3	1475.8	1513.0
47.5°	1157.1	1190.4	1329.9	1434.9	1473.3
50°	1090.6	1130.2	1278.7	1390.1	1428.5
52.5°	1021.4	1067.5	1226.2	1341.4	1386.2
55°	951.0	1004.8	1173.8	1296.6	1346.6
57.5°	878.1	943.4	1118.7	1254.4	1306.9
60°	802.6	879.4	1062.4	1213.4	1268.5
62.5°	727.0	816.6	1007.4	1173.8	1222.4
65°	650.2	752.6	960.0	1117.4	1163.5
67.5°	572.2	689.9	917.8	1061.1	1112.3
70°	491.5	628.5	866.6	998.4	1006.1
72.5°	414.7	564.5	803.8	865.3	843.5
75°	330.2	506.9	733.4	684.8	651.5
77.5°	254.7	463.4	586.2	490.2	449.3
80°	181.8	410.9	407.0	276.5	229.1
82.5°	116.5	341.8	216.3	85.8	70.4
85°	57.6	201.0	70.4	56.3	56.3
87.5°	20.5	79.4	48.6	33.3	29.4
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)