

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: P544651

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

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544651
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-T8-2G-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: 6625.2 lumens
Efficiency: N/A
Efficacy: 138.0 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

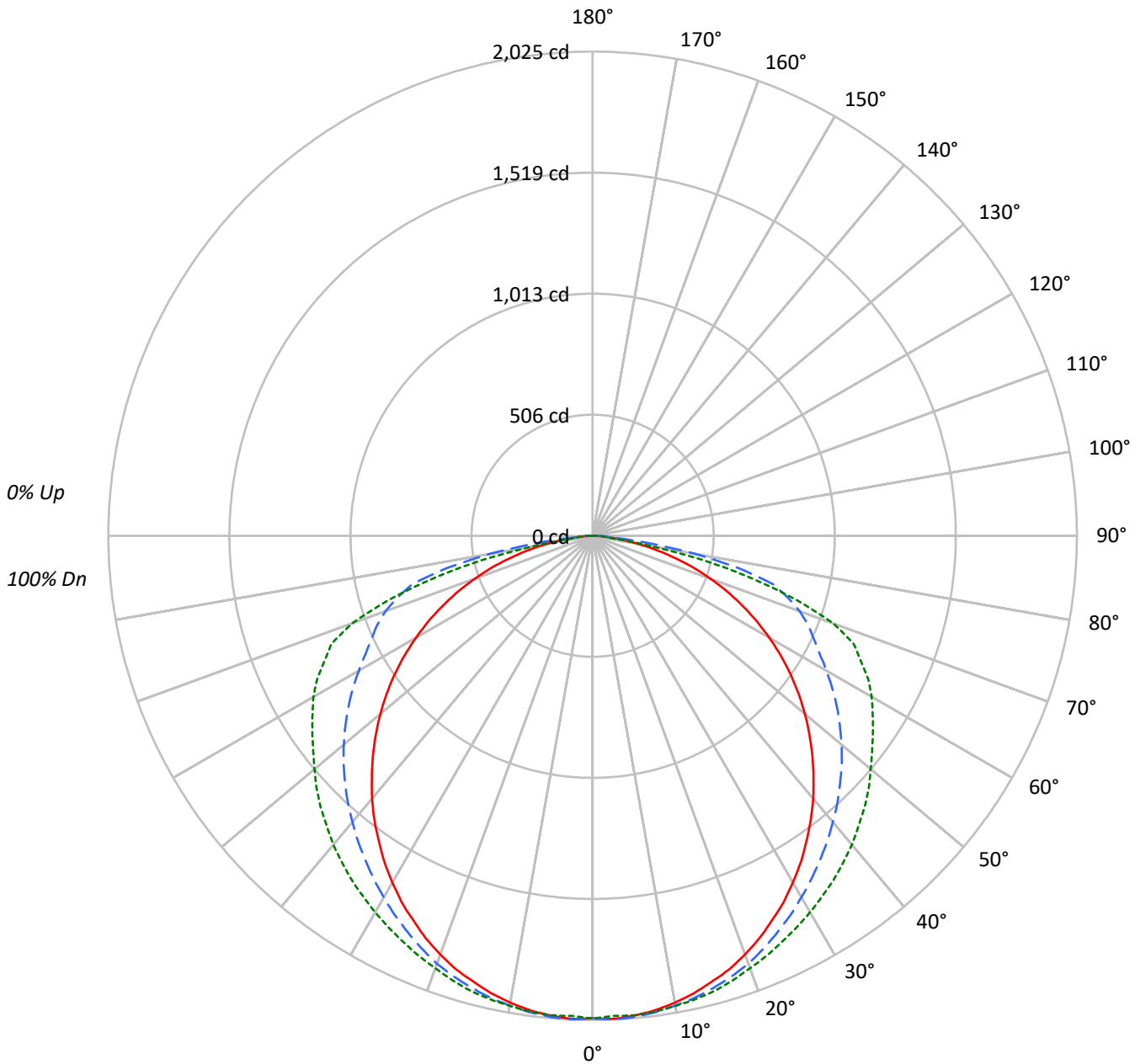
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2963	2963	2963
5°	2968	2976	2966
10°	2956	2974	2976
15°	2933	2974	2995
20°	2911	2974	3006
25°	2875	2963	3035
30°	2838	2960	3082
35°	2793	2968	3149
40°	2749	2994	3232
45°	2696	3038	3337
50°	2646	3103	3466
55°	2586	3192	3661
60°	2503	3314	3957
65°	2400	3543	4294
70°	2241	3952	4588
75°	1990	4420	3926
80°	1632	3656	2058
85°	1031	1260	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	2.9
10°-20°	550.0	8.3
20°-30°	840.4	12.7
30°-40°	1035.5	15.6
40°-50°	1122.4	16.9
50°-60°	1100.0	16.6
60°-70°	983.0	14.8
70°-80°	661.3	10.0
80°-90°	141.4	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°	1581.5	23.9
0°-40°	2617.0	39.5
0°-60°	4839.5	73.0
0°-90°	6625.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6625.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2018	2018	2018	2018	2018	
5°	2014	1990	2020	2020	2013	191
15°	1930	1914	1957	1972	1971	545
25°	1775	1771	1829	1862	1874	818
35°	1559	1571	1656	1727	1757	976
45°	1299	1327	1463	1568	1608	1002
55°	1010	1068	1247	1378	1431	902
65°	691	800	1020	1187	1236	683
75°	351	539	779	728	692	374
85°	61	214	75	60	60	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2018.2	2018.2	2018.2	2018.2	2018.2
2.5°	2022.3	1995.1	2025.0	2025.0	2010.1
5°	2014.2	1989.7	2019.6	2019.6	2012.8
7.5°	2001.9	1978.8	2010.1	2010.1	2007.4
10°	1982.9	1961.1	1995.1	1999.2	1996.5
12.5°	1959.8	1939.4	1978.8	1987.0	1985.6
15°	1929.8	1913.5	1957.0	1972.0	1970.6
17.5°	1901.3	1883.6	1932.6	1950.2	1948.9
20°	1863.2	1849.6	1904.0	1920.3	1924.4
22.5°	1822.4	1811.5	1868.6	1890.4	1901.3
25°	1774.8	1770.7	1829.2	1861.8	1874.1
27.5°	1728.6	1724.5	1789.8	1833.3	1846.9
30°	1674.2	1676.9	1746.2	1797.9	1818.3
32.5°	1619.8	1625.2	1702.7	1762.6	1787.0
35°	1558.6	1570.8	1656.5	1727.2	1757.1
37.5°	1498.7	1513.7	1611.6	1691.8	1721.8
40°	1434.8	1452.5	1562.6	1652.4	1686.4
42.5°	1366.8	1391.3	1515.0	1610.2	1645.6
45°	1298.8	1327.4	1463.4	1568.1	1607.5
47.5°	1229.4	1264.8	1413.0	1524.6	1565.4
50°	1158.7	1200.9	1358.6	1477.0	1517.8
52.5°	1085.3	1134.2	1302.9	1425.3	1472.9
55°	1010.5	1067.6	1247.1	1377.7	1430.7
57.5°	933.0	1002.3	1188.6	1332.8	1388.6
60°	852.7	934.3	1128.8	1289.3	1347.8
62.5°	772.5	867.7	1070.3	1247.1	1298.8
65°	690.9	799.7	1020.0	1187.3	1236.2
67.5°	607.9	733.0	975.1	1127.4	1181.8
70°	522.2	667.8	920.7	1060.8	1069.0
72.5°	440.6	599.8	854.1	919.4	896.2
75°	350.9	538.6	779.3	727.6	692.2
77.5°	270.6	492.3	622.9	520.9	477.4
80°	193.1	436.6	432.5	293.8	243.4
82.5°	123.8	363.1	229.8	91.1	74.8
85°	61.2	213.5	74.8	59.8	59.8
87.5°	21.8	84.3	51.7	35.4	31.3
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)