

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: P544655

Luminaire Tested: **8TSLES-2-T8-2G-B850-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544655
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-B850-U-ICF-4FT-REFL
Description: 80CRI 5000K TLED with Reflector
Light Source: MainsFit Glass TLED - (4) 4FT 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7014.9 lumens
Efficiency: N/A
Efficacy: 146.1 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

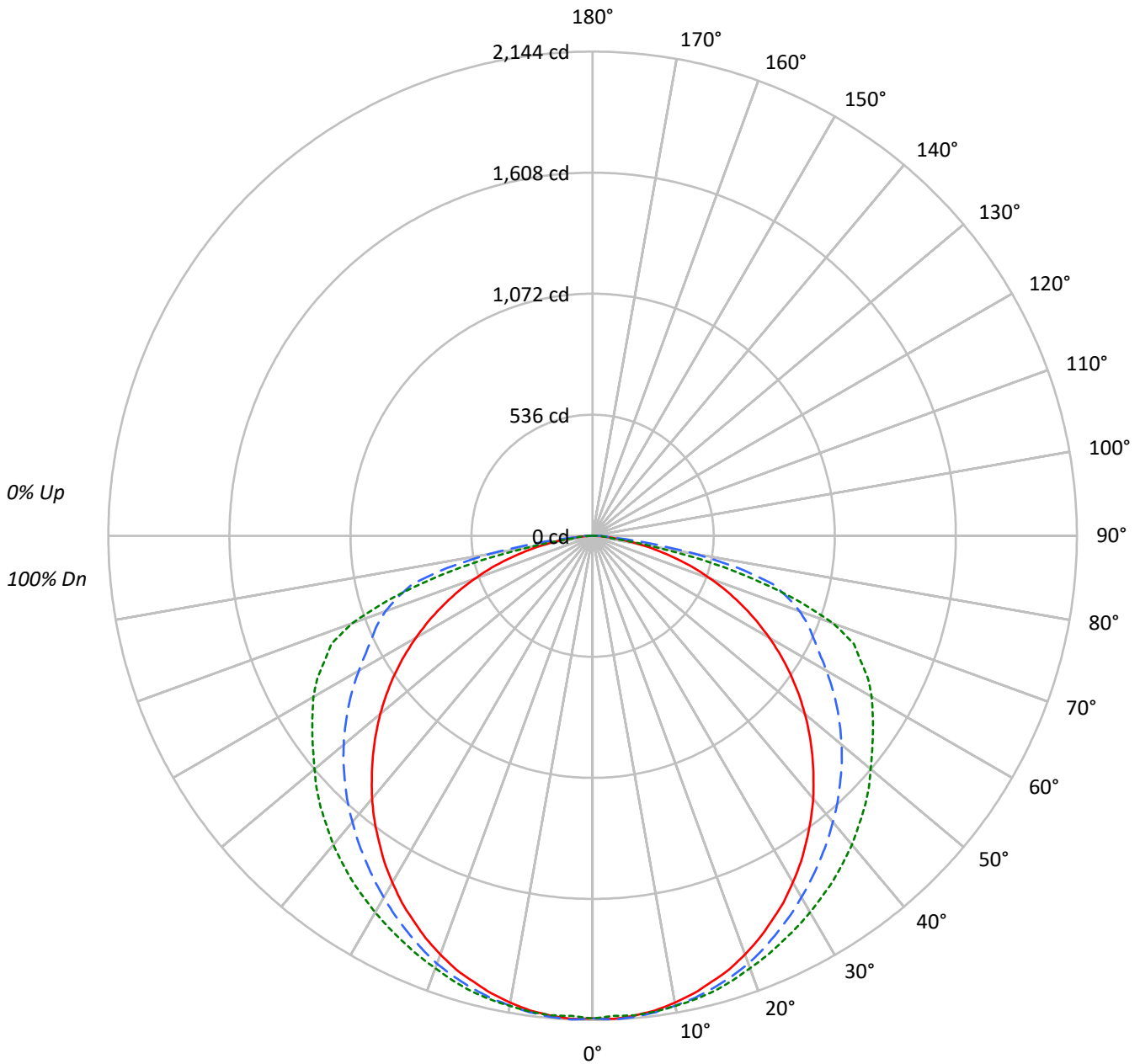
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3137	3137	3137
5°	3142	3151	3140
10°	3129	3149	3151
15°	3105	3149	3171
20°	3082	3149	3183
25°	3044	3137	3214
30°	3005	3134	3263
35°	2957	3143	3334
40°	2911	3171	3422
45°	2855	3216	3533
50°	2802	3285	3670
55°	2738	3379	3877
60°	2651	3509	4189
65°	2541	3751	4547
70°	2373	4184	4858
75°	2107	4680	4157
80°	1729	3871	2179
85°	1091	1334	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	2.9
10°-20°	582.3	8.3
20°-30°	889.9	12.7
30°-40°	1096.4	15.6
40°-50°	1188.5	16.9
50°-60°	1164.7	16.6
60°-70°	1040.8	14.8
70°-80°	700.2	10.0
80°-90°	149.8	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°	1674.6	23.9
0°-40°	2771.0	39.5
0°-60°	5124.2	73.0
0°-90°	7014.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7014.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2137	2137	2137	2137	2137	
5°	2133	2107	2138	2138	2131	203
15°	2043	2026	2072	2088	2087	577
25°	1879	1875	1937	1971	1984	867
35°	1650	1663	1754	1829	1860	1033
45°	1375	1405	1549	1660	1702	1061
55°	1070	1130	1320	1459	1515	955
65°	732	847	1080	1257	1309	723
75°	372	570	825	770	733	396
85°	65	226	79	63	63	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2137.0	2137.0	2137.0	2137.0	2137.0
2.5°	2141.3	2112.5	2144.2	2144.2	2128.3
5°	2132.6	2106.7	2138.4	2138.4	2131.2
7.5°	2119.7	2095.2	2128.3	2128.3	2125.4
10°	2099.5	2076.5	2112.5	2116.8	2113.9
12.5°	2075.0	2053.4	2095.2	2103.8	2102.4
15°	2043.4	2026.1	2072.2	2088.0	2086.6
17.5°	2013.1	1994.4	2046.2	2065.0	2063.5
20°	1972.8	1958.4	2016.0	2033.3	2037.6
22.5°	1929.6	1918.1	1978.6	2001.6	2013.1
25°	1879.2	1874.9	1936.8	1971.4	1984.3
27.5°	1830.2	1825.9	1895.0	1941.1	1955.5
30°	1772.6	1775.5	1849.0	1903.7	1925.3
32.5°	1715.0	1720.8	1802.9	1866.2	1892.2
35°	1650.2	1663.2	1753.9	1828.8	1860.5
37.5°	1586.9	1602.7	1706.4	1791.4	1823.0
40°	1519.2	1537.9	1654.6	1749.6	1785.6
42.5°	1447.2	1473.1	1604.2	1705.0	1742.4
45°	1375.2	1405.4	1549.4	1660.3	1702.1
47.5°	1301.8	1339.2	1496.2	1614.2	1657.4
50°	1226.9	1271.5	1438.6	1563.8	1607.0
52.5°	1149.1	1201.0	1379.5	1509.1	1559.5
55°	1069.9	1130.4	1320.5	1458.7	1514.9
57.5°	987.8	1061.3	1258.6	1411.2	1470.2
60°	902.9	989.3	1195.2	1365.1	1427.0
62.5°	817.9	918.7	1133.3	1320.5	1375.2
65°	731.5	846.7	1080.0	1257.1	1309.0
67.5°	643.7	776.2	1032.5	1193.8	1251.4
70°	553.0	707.0	974.9	1123.2	1131.8
72.5°	466.6	635.0	904.3	973.4	949.0
75°	371.5	570.2	825.1	770.4	733.0
77.5°	286.6	521.3	659.5	551.5	505.4
80°	204.5	462.2	457.9	311.0	257.8
82.5°	131.0	384.5	243.4	96.5	79.2
85°	64.8	226.1	79.2	63.4	63.4
87.5°	23.0	89.3	54.7	37.4	33.1
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)