

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: P544649

Luminaire Tested: **8TSLES-2-T8-1G-B850-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544649
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-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: 6430.4 lumens
Efficiency: N/A
Efficacy: 162.4 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

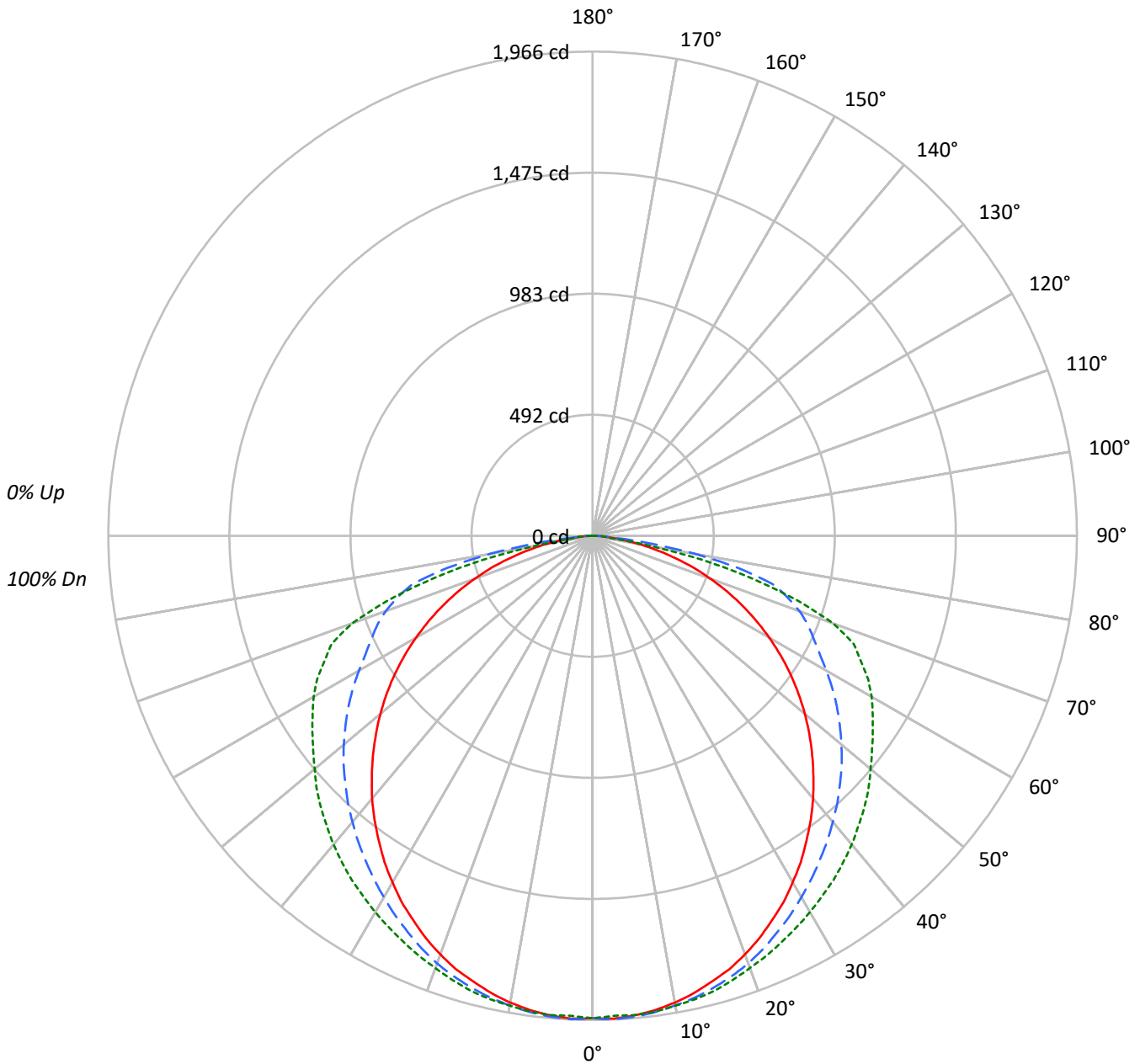
Input Watts (W): 39.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P544649

CATALOG NUMBER: 8TSLES-2-T8-1G-B850-U-ICF-4FT-REFL

Luminous Intensity Polar Plot





TEST NUMBER: P544649

CATALOG NUMBER: 8TSLES-2-T8-1G-B850-U-ICF-4FT-REFL

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°	2875	2875	2875
5°	2881	2888	2879
10°	2869	2886	2888
15°	2847	2887	2907
20°	2825	2887	2918
25°	2790	2876	2946
30°	2754	2873	2991
35°	2711	2881	3056
40°	2669	2906	3136
45°	2617	2948	3239
50°	2568	3011	3364
55°	2510	3098	3554
60°	2430	3216	3840
65°	2329	3439	4168
70°	2176	3835	4453
75°	1932	4290	3811
80°	1584	3549	1998
85°	1000	1223	979



TEST NUMBER: P544649

CATALOG NUMBER: 8TSLES-2-T8-1G-B850-U-ICF-4FT-REFL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	2.9
10°-20°	533.8	8.3
20°-30°	815.7	12.7
30°-40°	1005.0	15.6
40°-50°	1089.4	16.9
50°-60°	1067.7	16.6
60°-70°	954.1	14.8
70°-80°	641.9	10.0
80°-90°	137.3	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°	1535.0	23.9
0°-40°	2540.1	39.5
0°-60°	4697.2	73.0
0°-90°	6430.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6430.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1959	1959	1959	1959	1959	
5°	1955	1931	1960	1960	1954	186
15°	1873	1857	1900	1914	1913	529
25°	1723	1719	1775	1807	1819	794
35°	1513	1525	1608	1676	1705	947
45°	1261	1288	1420	1522	1560	973
55°	981	1036	1210	1337	1389	876
65°	671	776	990	1152	1200	662
75°	341	523	756	706	672	363
85°	59	207	73	58	58	80
90°	0	0	0	0	0	



TEST NUMBER: P544649

CATALOG NUMBER: 8TSLES-2-T8-1G-B850-U-ICF-4FT-REFL

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1958.9	1958.9	1958.9	1958.9	1958.9
2.5°	1962.8	1936.4	1965.5	1965.5	1951.0
5°	1954.9	1931.2	1960.2	1960.2	1953.6
7.5°	1943.0	1920.6	1951.0	1951.0	1948.3
10°	1924.6	1903.4	1936.4	1940.4	1937.8
12.5°	1902.1	1882.3	1920.6	1928.5	1927.2
15°	1873.1	1857.2	1899.5	1914.0	1912.7
17.5°	1845.4	1828.2	1875.7	1892.9	1891.6
20°	1808.4	1795.2	1848.0	1863.8	1867.8
22.5°	1768.8	1758.2	1813.7	1834.8	1845.4
25°	1722.6	1718.6	1775.4	1807.1	1819.0
27.5°	1677.7	1673.8	1737.1	1779.4	1792.6
30°	1624.9	1627.6	1694.9	1745.0	1764.8
32.5°	1572.1	1577.4	1652.6	1710.7	1734.5
35°	1512.7	1524.6	1607.8	1676.4	1705.4
37.5°	1454.6	1469.2	1564.2	1642.1	1671.1
40°	1392.6	1409.8	1516.7	1603.8	1636.8
42.5°	1326.6	1350.4	1470.5	1562.9	1597.2
45°	1260.6	1288.3	1420.3	1522.0	1560.2
47.5°	1193.3	1227.6	1371.5	1479.7	1519.3
50°	1124.6	1165.6	1318.7	1433.5	1473.1
52.5°	1053.4	1100.9	1264.6	1383.4	1429.6
55°	980.8	1036.2	1210.4	1337.2	1388.6
57.5°	905.5	972.8	1153.7	1293.6	1347.7
60°	827.6	906.8	1095.6	1251.4	1308.1
62.5°	749.8	842.2	1038.8	1210.4	1260.6
65°	670.6	776.2	990.0	1152.4	1199.9
67.5°	590.0	711.5	946.4	1094.3	1147.1
70°	506.9	648.1	893.6	1029.6	1037.5
72.5°	427.7	582.1	829.0	892.3	869.9
75°	340.6	522.7	756.4	706.2	671.9
77.5°	262.7	477.8	604.6	505.6	463.3
80°	187.4	423.7	419.8	285.1	236.3
82.5°	120.1	352.4	223.1	88.4	72.6
85°	59.4	207.2	72.6	58.1	58.1
87.5°	21.1	81.8	50.2	34.3	30.4
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)