

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: P544658

Luminaire Tested: **8TSLES-2-T8-3G-B835-U**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-256-1)
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-B835-U
Description: 80CRI 3500K TLED Strip
Light Source: MainsFit Glass TLED - (4) 4FT 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8308.5 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.36 / 1.44
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

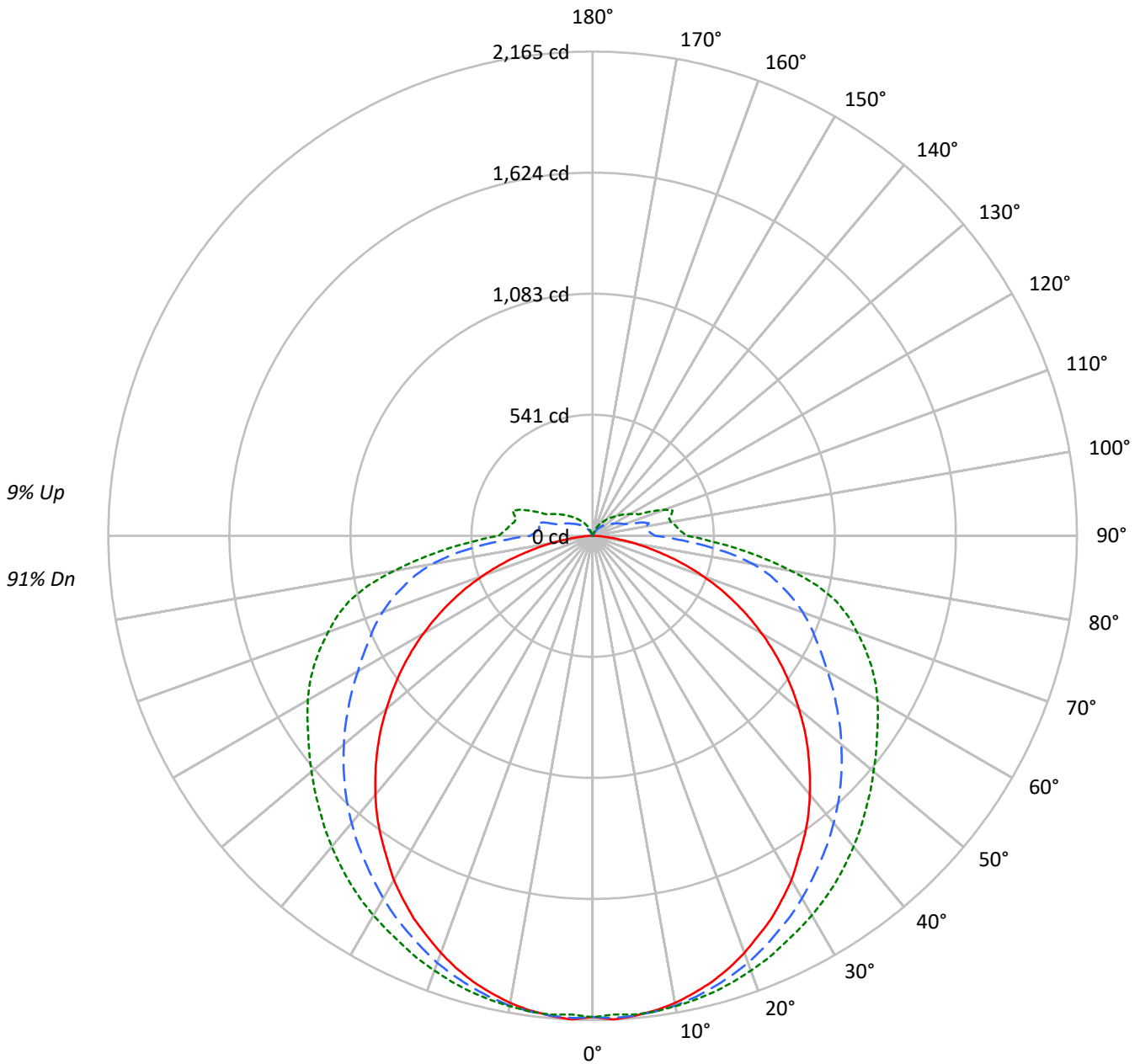
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P544658

CATALOG NUMBER: 8TSLES-2-T8-3G-B835-U

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	104	98	93	89	101	95	91	86	89	86	82	84	81	78	79	76	74	71																			
2	94	84	77	70	90	82	75	69	77	71	66	72	67	63	68	64	60	57																			
3	85	73	64	57	81	71	63	56	67	60	54	63	57	52	59	54	50	47																			
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	47	42	39																			
5	71	57	48	40	68	55	47	40	52	45	39	49	43	37	47	41	36	34																			
6	65	51	42	35	63	50	41	35	47	39	33	44	38	32	42	36	32	29																			
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	26																			
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	23																			
9	52	39	30	24	50	38	30	24	36	29	23	34	28	23	32	27	22	20																			
10	49	35	27	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5791	5791	5791
5°	5822	5817	5804
10°	5797	5828	5837
15°	5750	5821	5879
20°	5682	5819	5924
25°	5611	5805	5986
30°	5523	5817	6090
35°	5414	5834	6218
40°	5306	5890	6374
45°	5182	5967	6576
50°	5037	6075	6866
55°	4887	6245	7281
60°	4693	6519	7914
65°	4452	7019	8751
70°	4104	7868	9895
75°	3560	9100	11711
80°	2851	11306	13959
85°	1729	15512	19909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.2	2.5
10°-20°	588.3	7.1
20°-30°	899.9	10.8
30°-40°	1108.7	13.3
40°-50°	1199.8	14.4
50°-60°	1177.6	14.2
60°-70°	1062.7	12.8
70°-80°	852.3	10.3
80°-90°	486.7	5.9
90°-100°	247.7	3.0
100°-110°	207.2	2.5
110°-120°	125.5	1.5
120°-130°	78.1	0.9
130°-140°	43.9	0.5
140°-150°	20.8	0.3
150°-160°	4.9	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1692.4	20.4
0°-40°	2801.2	33.7
0°-60°	5178.7	62.3
0°-90°	7580.3	91.2
90°-120°	580.4	7.0
90°-150°	723.2	8.7
90°-180°	728.0	8.8
0°-180°	8308.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2152	2152	2152	2152	2152	
5°	2155	2139	2154	2142	2149	205
15°	2064	2061	2090	2098	2110	582
25°	1890	1904	1955	1990	2016	870
35°	1648	1685	1776	1850	1893	1031
45°	1362	1427	1568	1672	1728	1050
55°	1042	1149	1331	1480	1552	930
65°	699	854	1102	1299	1374	692
75°	342	576	875	1059	1126	366
85°	56	323	502	606	645	73
90°	0	134	280	382	421	2
95°	0	115	250	346	382	0
105°	0	64	230	341	363	0
115°	0	42	130	200	227	0
125°	0	29	91	144	165	0
135°	0	5	61	99	114	0
145°	0	0	34	62	72	1
155°	2	0	0	21	35	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P544658

CATALOG NUMBER: 8TSLES-2-T8-3G-B835-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2152.0	2152.0	2152.0	2152.0	2152.0
2.5°	2164.8	2145.6	2158.4	2147.2	2142.4
5°	2155.2	2139.2	2153.6	2142.4	2148.8
7.5°	2140.8	2128.0	2145.6	2137.6	2145.6
10°	2121.6	2110.4	2132.8	2126.4	2136.0
12.5°	2094.4	2088.0	2113.6	2113.6	2124.8
15°	2064.0	2060.8	2089.6	2097.6	2110.4
17.5°	2027.2	2028.8	2062.4	2076.8	2091.2
20°	1984.0	1992.0	2032.0	2048.0	2068.8
22.5°	1936.0	1950.4	1995.2	2017.6	2046.4
25°	1889.6	1904.0	1955.2	1990.4	2016.0
27.5°	1833.6	1854.4	1916.8	1960.0	1988.8
30°	1777.6	1800.0	1872.0	1926.4	1960.0
32.5°	1710.4	1744.0	1824.0	1888.0	1928.0
35°	1648.0	1684.8	1776.0	1849.6	1892.8
37.5°	1582.4	1624.0	1728.0	1809.6	1854.4
40°	1510.4	1560.0	1676.8	1764.8	1814.4
42.5°	1436.8	1494.4	1624.0	1718.4	1772.8
45°	1361.6	1427.2	1568.0	1672.0	1728.0
47.5°	1284.8	1361.6	1510.4	1625.6	1684.8
50°	1203.2	1292.8	1451.2	1576.0	1640.0
52.5°	1123.2	1222.4	1393.6	1528.0	1596.8
55°	1041.6	1148.8	1331.2	1480.0	1552.0
57.5°	958.4	1076.8	1273.6	1433.6	1512.0
60°	872.0	1003.2	1211.2	1390.4	1470.4
62.5°	787.2	929.6	1156.8	1348.8	1425.6
65°	699.2	854.4	1102.4	1299.2	1374.4
67.5°	612.8	777.6	1054.4	1244.8	1318.4
70°	521.6	705.6	1000.0	1184.0	1257.6
72.5°	433.6	636.8	940.8	1124.8	1198.4
75°	342.4	576.0	875.2	1059.2	1126.4
77.5°	260.8	528.0	809.6	972.8	1027.2
80°	184.0	470.4	729.6	857.6	900.8
82.5°	113.6	403.2	624.0	732.8	772.8
85°	56.0	323.2	502.4	606.4	644.8
87.5°	16.0	224.0	380.8	481.6	523.2
90°	0.0	134.4	280.0	382.4	420.8
92.5°	0.0	118.4	260.8	360.0	398.4
95°	0.0	115.2	249.6	345.6	382.4
97.5°	0.0	120.0	240.0	331.2	371.2
100°	0.0	81.6	243.2	320.0	355.2
102.5°	0.0	72.0	257.6	323.2	350.4
105°	0.0	64.0	230.4	340.8	363.2



TEST NUMBER: P544658

CATALOG NUMBER: 8TSLES-2-T8-3G-B835-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	46.4	140.8	220.8	284.8
115°	0.0	41.6	129.6	200.0	227.2
117.5°	0.0	38.4	118.4	184.0	211.2
120°	0.0	35.2	108.8	169.6	193.6
122.5°	0.0	32.0	99.2	156.8	179.2
125°	0.0	28.8	91.2	144.0	164.8
127.5°	0.0	25.6	83.2	131.2	150.4
130°	0.0	20.8	76.8	120.0	137.6
132.5°	0.0	12.8	68.8	108.8	124.8
135°	0.0	4.8	60.8	99.2	113.6
137.5°	0.0	1.6	54.4	89.6	102.4
140°	0.0	0.0	46.4	80.0	92.8
142.5°	0.0	0.0	40.0	72.0	81.6
145°	0.0	0.0	33.6	62.4	72.0
147.5°	1.6	0.0	24.0	52.8	64.0
150°	1.6	0.0	12.8	44.8	54.4
152.5°	1.6	0.0	3.2	35.2	46.4
155°	1.6	0.0	0.0	20.8	35.2
157.5°	1.6	0.0	0.0	4.8	19.2
160°	1.6	0.0	0.0	0.0	3.2
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





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







107.5°	0.0	56.0	172.8	329.6	374.4
110°	0.0	51.2	152.0	286.4	340.8



(END OF REPORT)