

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: P544641

Luminaire Tested: **8TSLES-1-T8-3G-B840-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-256-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/2/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8TSLES-1-T8-3G-B840-U-ICF-4FT-REFL
Description: 80CRI 4000K TLED with Reflector
Light Source: MainsFit Glass TLED - (2) 4FT 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4065.8 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.42
Luminous Opening: Rectangular (W 0.92' x L: 8' x H: 0')
CIE Type: Direct

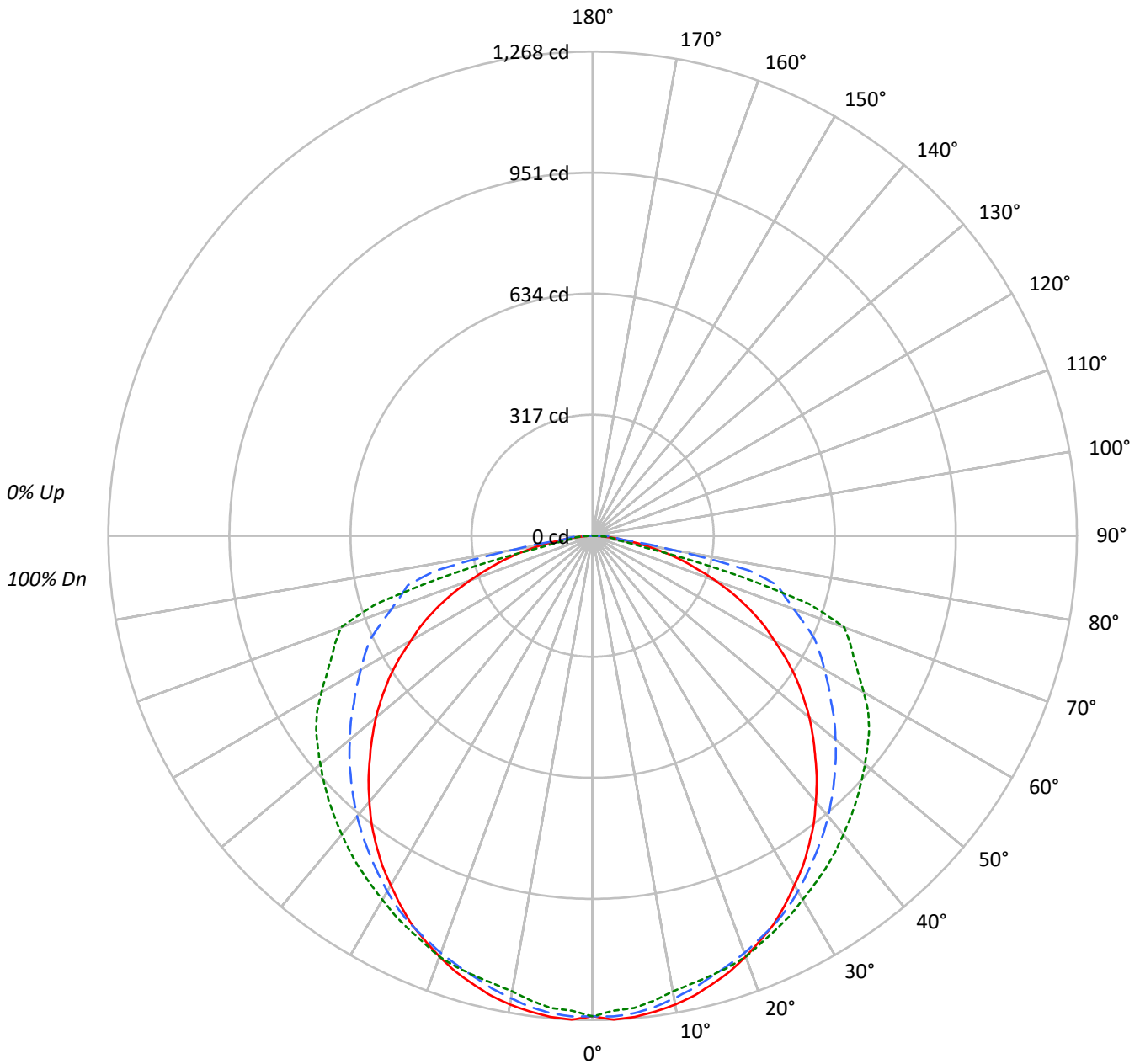
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	89	92	89	87	88	86	84	82			
2	97	88	81	75	95	86	80	74	83	77	72	79	75	70	76	72	69	67			
3	88	77	68	61	85	75	67	61	72	65	59	69	63	58	67	62	57	55			
4	80	68	58	51	78	66	57	51	64	56	50	61	55	49	59	53	49	46			
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40			
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	44	35	29	42	34	29	41	34	29	40	33	29	27			
9	54	41	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	29	24	35	28	23	34	28	23	22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1847	1847	1847
5°	1864	1849	1829
10°	1858	1833	1806
15°	1846	1818	1813
20°	1832	1816	1832
25°	1818	1820	1842
30°	1791	1822	1865
35°	1770	1824	1906
40°	1742	1838	1957
45°	1712	1859	2030
50°	1692	1895	2125
55°	1664	1952	2262
60°	1613	2057	2407
65°	1570	2229	2620
70°	1464	2401	3007
75°	1324	2839	2049
80°	1079	1761	582
85°	679	1019	707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	2.9
10°-20°	338.4	8.3
20°-30°	516.7	12.7
30°-40°	635.6	15.6
40°-50°	690.0	17.0
50°-60°	679.4	16.7
60°-70°	608.5	15.0
70°-80°	398.0	9.8
80°-90°	80.6	2.0
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°	973.7	23.9
0°-40°	1609.3	39.6
0°-60°	2978.7	73.3
0°-90°	4065.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4065.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1265	1247	1255	1250	1242	120
15°	1215	1191	1196	1200	1193	343
25°	1122	1090	1124	1137	1137	516
35°	988	963	1018	1052	1063	618
45°	825	820	895	956	978	637
55°	650	654	763	852	884	580
65°	452	489	642	722	754	445
75°	234	351	501	442	361	246
85°	40	114	60	44	42	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1258.3	1258.3	1258.3	1258.3	1258.3
2.5°	1268.4	1249.9	1260.0	1256.6	1244.9
5°	1265.0	1246.6	1255.0	1249.9	1241.5
7.5°	1256.6	1236.5	1244.9	1236.5	1228.1
10°	1246.6	1226.4	1229.8	1221.4	1211.3
12.5°	1233.1	1209.6	1214.6	1209.6	1201.2
15°	1214.6	1191.1	1196.2	1199.5	1192.8
17.5°	1196.2	1171.0	1179.4	1187.8	1184.4
20°	1172.6	1145.8	1162.6	1174.3	1172.6
22.5°	1147.4	1118.9	1142.4	1155.8	1154.2
25°	1122.2	1090.3	1123.9	1137.4	1137.4
27.5°	1090.3	1061.8	1102.1	1117.2	1120.6
30°	1056.7	1029.8	1075.2	1095.4	1100.4
32.5°	1024.8	996.2	1046.6	1073.5	1081.9
35°	987.8	962.6	1018.1	1051.7	1063.4
37.5°	950.9	929.0	989.5	1029.8	1043.3
40°	908.9	893.8	959.3	1006.3	1021.4
42.5°	868.6	858.5	927.4	982.8	999.6
45°	824.9	819.8	895.4	955.9	977.8
47.5°	782.9	779.5	863.5	930.7	954.2
50°	740.9	737.5	829.9	903.8	930.7
52.5°	695.5	695.5	798.0	880.3	907.2
55°	650.2	653.5	762.7	851.8	883.7
57.5°	601.4	611.5	732.5	826.6	855.1
60°	549.4	569.5	700.6	796.3	819.8
62.5°	504.0	529.2	672.0	757.7	784.6
65°	451.9	488.9	641.8	722.4	754.3
67.5°	398.2	451.9	599.8	692.2	729.1
70°	341.0	415.0	559.4	665.3	700.6
72.5°	285.6	381.4	527.5	616.6	594.7
75°	233.5	351.1	500.6	441.8	361.2
77.5°	179.8	312.5	418.3	191.5	136.1
80°	127.7	277.2	208.3	68.9	68.9
82.5°	80.6	245.3	77.3	55.4	55.4
85°	40.3	114.2	60.5	43.7	42.0
87.5°	15.1	68.9	43.7	23.5	20.2
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)