

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: P544639

Luminaire Tested: **8TSLES-1-T8-3G-B835-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544639
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-B835-U-ICF-4FT-REFL
Description: 80CRI 3500K TLED with Reflector
Light Source: MainsFit Glass TLED - (2) 4FT 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3872.2 lumens
Efficiency: N/A
Efficacy: 133.5 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

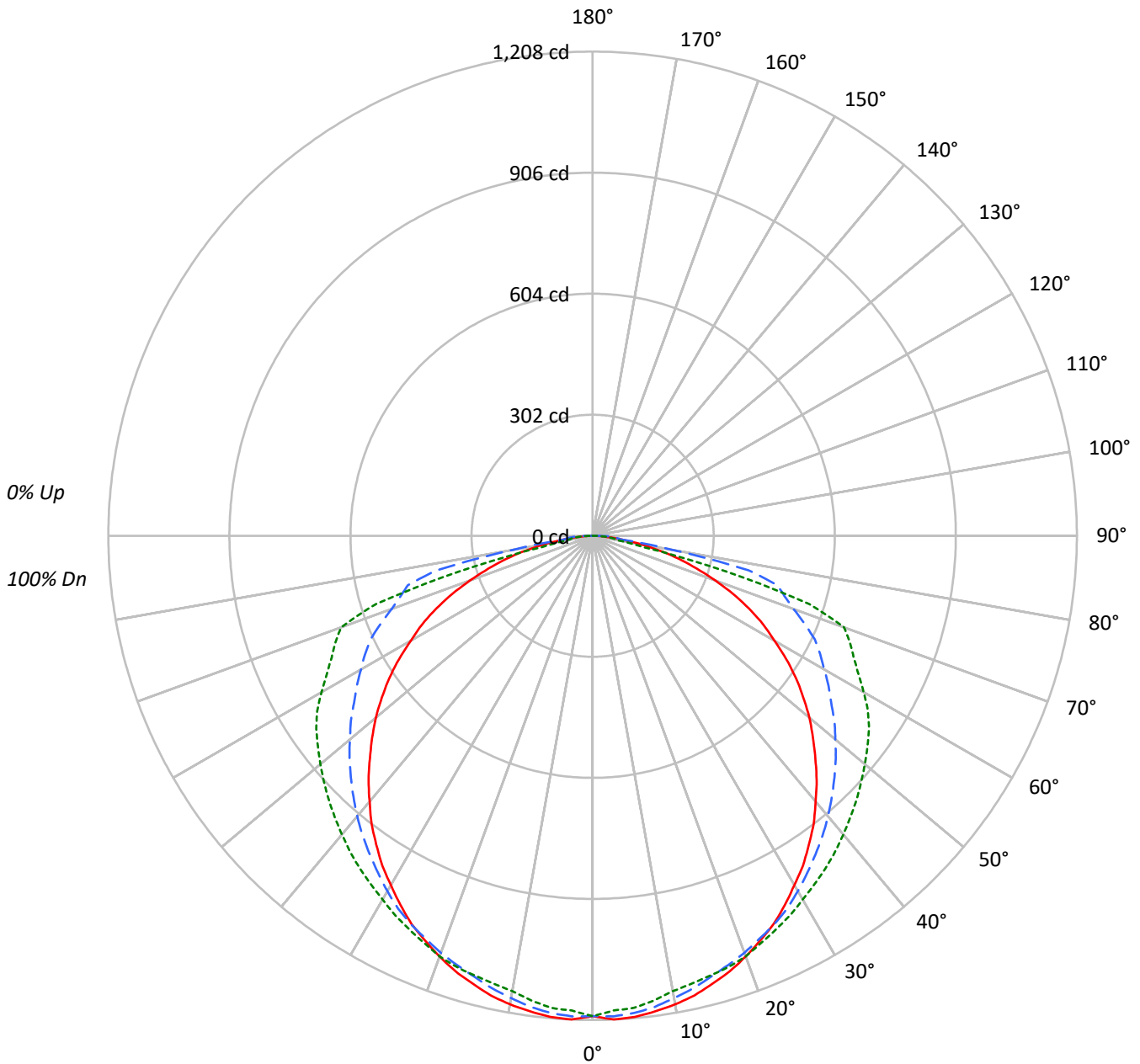
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1759	1759	1759
5°	1775	1761	1742
10°	1770	1746	1720
15°	1758	1731	1726
20°	1745	1730	1745
25°	1731	1734	1754
30°	1706	1736	1776
35°	1686	1738	1815
40°	1659	1751	1864
45°	1631	1770	1933
50°	1611	1805	2024
55°	1585	1859	2154
60°	1536	1959	2292
65°	1495	2123	2495
70°	1394	2287	2864
75°	1261	2704	1951
80°	1028	1677	555
85°	647	970	674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	2.9
10°-20°	322.3	8.3
20°-30°	492.1	12.7
30°-40°	605.4	15.6
40°-50°	657.1	17.0
50°-60°	647.1	16.7
60°-70°	579.5	15.0
70°-80°	379.1	9.8
80°-90°	76.8	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°	927.3	23.9
0°-40°	1532.7	39.6
0°-60°	2836.9	73.3
0°-90°	3872.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3872.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1205	1187	1195	1190	1182	114
15°	1157	1134	1139	1142	1136	327
25°	1069	1038	1070	1083	1083	492
35°	941	917	970	1002	1013	589
45°	786	781	853	910	931	607
55°	619	622	726	811	842	552
65°	430	466	611	688	718	424
75°	222	334	477	421	344	234
85°	38	109	58	42	40	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.4	1198.4	1198.4	1198.4	1198.4
2.5°	1208.0	1190.4	1200.0	1196.8	1185.6
5°	1204.8	1187.2	1195.2	1190.4	1182.4
7.5°	1196.8	1177.6	1185.6	1177.6	1169.6
10°	1187.2	1168.0	1171.2	1163.2	1153.6
12.5°	1174.4	1152.0	1156.8	1152.0	1144.0
15°	1156.8	1134.4	1139.2	1142.4	1136.0
17.5°	1139.2	1115.2	1123.2	1131.2	1128.0
20°	1116.8	1091.2	1107.2	1118.4	1116.8
22.5°	1092.8	1065.6	1088.0	1100.8	1099.2
25°	1068.8	1038.4	1070.4	1083.2	1083.2
27.5°	1038.4	1011.2	1049.6	1064.0	1067.2
30°	1006.4	980.8	1024.0	1043.2	1048.0
32.5°	976.0	948.8	996.8	1022.4	1030.4
35°	940.8	916.8	969.6	1001.6	1012.8
37.5°	905.6	884.8	942.4	980.8	993.6
40°	865.6	851.2	913.6	958.4	972.8
42.5°	827.2	817.6	883.2	936.0	952.0
45°	785.6	780.8	852.8	910.4	931.2
47.5°	745.6	742.4	822.4	886.4	908.8
50°	705.6	702.4	790.4	860.8	886.4
52.5°	662.4	662.4	760.0	838.4	864.0
55°	619.2	622.4	726.4	811.2	841.6
57.5°	572.8	582.4	697.6	787.2	814.4
60°	523.2	542.4	667.2	758.4	780.8
62.5°	480.0	504.0	640.0	721.6	747.2
65°	430.4	465.6	611.2	688.0	718.4
67.5°	379.2	430.4	571.2	659.2	694.4
70°	324.8	395.2	532.8	633.6	667.2
72.5°	272.0	363.2	502.4	587.2	566.4
75°	222.4	334.4	476.8	420.8	344.0
77.5°	171.2	297.6	398.4	182.4	129.6
80°	121.6	264.0	198.4	65.6	65.6
82.5°	76.8	233.6	73.6	52.8	52.8
85°	38.4	108.8	57.6	41.6	40.0
87.5°	14.4	65.6	41.6	22.4	19.2
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)