

IESNA:  
 [TEST]  
 [ISSUEDATE] 2020/03/30  
 [MANUFAC] TECNOLED  
 [LUMCAT] ML-T5-CR-9W  
 [LUMINAIRE] TUBO LED T5  
 [LAMPCAT] ML-T5-CR-9W  
 [LAMP] TUBO LED T5  
 [\_VOLTAGE] 220.1 V  
 [\_CURRENT] 0.092 A  
 [\_POWERFACTOR] 0.452  
 [TESTLAB] LABTECNOLED  
 [\_TESTINST] GPM-1800B  
 [\_TESTDIST] 8.439 m  
 [\_TESTTEMPERATURE] 26  
 [\_TESTHUMIDITY] 55  
 [\_TESTOPERATOR]  
 [BALLAST]  
 [BALLASTCAT]  
 TILT=NONE  
 1 913.5 1.000 181 13 1 2 0.000 0.000 0.000  
 1.000 1.000 9.19  
 0.0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0  
 16.0 17.0 18.0 19.0 20.0 21.0 22.0 23.0 24.0 25.0 26.0 27.0 28.0 29.0  
 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0 38.0 39.0 40.0 41.0 42.0 43.0  
 44.0 45.0 46.0 47.0 48.0 49.0 50.0 51.0 52.0 53.0 54.0 55.0 56.0 57.0  
 58.0 59.0 60.0 61.0 62.0 63.0 64.0 65.0 66.0 67.0 68.0 69.0 70.0 71.0  
 72.0 73.0 74.0 75.0 76.0 77.0 78.0 79.0 80.0 81.0 82.0 83.0 84.0 85.0  
 86.0 87.0 88.0 89.0 90.0 91.0 92.0 93.0 94.0 95.0 96.0 97.0 98.0 99.0  
 100.0 101.0 102.0 103.0 104.0 105.0 106.0 107.0 108.0 109.0 110.0 111.0  
 112.0 113.0 114.0 115.0 116.0 117.0 118.0 119.0 120.0 121.0 122.0 123.0  
 124.0 125.0 126.0 127.0 128.0 129.0 130.0 131.0 132.0 133.0 134.0 135.0  
 136.0 137.0 138.0 139.0 140.0 141.0 142.0 143.0 144.0 145.0 146.0 147.0  
 148.0 149.0 150.0 151.0 152.0 153.0 154.0 155.0 156.0 157.0 158.0 159.0  
 160.0 161.0 162.0 163.0 164.0 165.0 166.0 167.0 168.0 169.0 170.0 171.0  
 172.0 173.0 174.0 175.0 176.0 177.0 178.0 179.0 180.0  
 0.0 30.0 60.0 90.0 120.0 150.0 180.0 210.0 240.0 270.0 300.0 330.0 360.0  
 266.04 266.00 265.91 265.82 265.60 265.28 264.98 264.59 264.08 263.49  
 262.81 261.93 260.82 259.51 258.13 256.71 254.84 253.13 251.46 249.77  
 248.25 246.68 244.92 243.48 241.75 239.98 238.23 236.28 234.14 232.19  
 230.11 227.73 225.44 222.86 220.54 217.85 215.19 212.49 209.42 206.47  
 203.22 199.35 195.46 191.29 187.00 183.37 179.74 175.64 172.02 168.09  
 164.45 159.73 155.52 151.35 146.51 142.07 137.06 131.44 125.21 120.32  
 115.72 110.66 105.86 100.72 95.36 88.93 82.82 77.81 72.56 67.28 61.80  
 55.99 51.30 45.83 40.41 36.18 31.45 27.07 22.90 18.89 15.27 12.14 9.40  
 6.94 4.77 3.19 2.13 1.47 1.01 0.75 0.36 0.39 0.53 0.61 0.73 0.83 0.97  
 1.11 1.29 1.47 1.61 1.77 1.88 1.97 2.04 2.12 2.20 2.29 2.35 2.39 2.32  
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 2.81 2.84 2.85 2.89 2.87 2.91 2.96 2.97 2.96 2.99 2.97 3.00 2.97 3.00  
 2.99 3.03 3.07 3.09 3.11 3.13 3.15 3.15 3.20 3.25 3.28 3.27 3.31 3.33  
 265.78 265.39 264.66 264.04 263.43 262.54 261.78 260.67 259.83 258.65  
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 238.03 235.55 233.29 230.59 228.15 225.21 222.74 220.20 217.67 214.79  
 212.28 209.26 206.55 203.28 200.30 196.81 193.85 190.60 187.00 183.59  
 179.62 175.95 172.26 168.30 163.93 159.98 155.37 151.15 146.84 142.27

137.42 133.04 128.69 124.11 118.85 114.07 109.29 104.15 99.61 95.07 89.84  
84.86 80.22 75.73 70.77 65.82 60.89 56.63 51.31 47.01 42.85 38.62 34.68  
30.88 27.67 24.56 22.18 19.56 16.94 15.02 13.31 11.98 10.72 9.66 9.52  
9.70 9.45 8.46 8.72 10.12 10.02 9.92 9.82 9.76 9.53 9.49 9.38 9.28 9.21  
9.17 8.96 8.69 8.66 8.65 8.65 8.68 8.60 8.58 8.58 8.42 8.21 8.10 8.10  
8.02 8.00 7.92 7.90 7.92 7.80 7.44 6.64 5.44 4.29 3.45 2.99 2.84 2.81  
2.84 2.91 2.88 2.91 2.89 2.85 2.87 2.88 2.91 2.93 2.91 2.92 2.92 2.93  
2.95 2.93 2.92 2.93 2.93 2.93 2.93 2.96 2.99 3.04 3.01 3.04 2.99 3.01  
3.03 3.04 3.01 3.01 3.03 3.03 3.00 3.03 3.00 2.97 3.01 3.01 3.03 3.08  
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265.35 264.26 263.47 262.61 261.26 260.10 258.89 257.59 256.12 254.30  
252.73 250.70 248.90 247.07 244.96 242.84 240.76 238.43 236.08 233.86  
231.39 228.79 225.93 223.37 220.65 217.84 214.72 211.63 208.40 205.04  
201.55 198.07 194.06 190.57 187.15 183.21 179.59 175.72 171.18 167.37  
163.50 159.36 154.91 150.59 146.31 142.08 137.37 132.84 128.66 124.15  
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65.22 60.47 55.36 50.79 46.22 41.86 37.14 33.09 28.63 25.23 21.58 19.20  
16.69 14.59 12.94 11.62 10.84 10.34 10.20 10.08 9.86 9.32 9.12 8.50 9.52  
10.10 10.12 10.09 10.16 10.12 10.13 10.04 10.16 10.12 10.10 10.08 10.01  
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10.42 10.38 10.40 10.42 10.49 10.45 10.34 10.32 10.25 10.21 10.17 10.01  
9.48 8.66 7.41 6.09 5.05 4.26 3.80 3.71 3.69 3.63 3.57 3.57 3.55 3.57  
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250.10 248.21 246.24 244.03 241.95 239.92 237.46 235.24 232.94 230.29  
227.89 225.32 222.40 219.54 216.73 213.44 210.53 207.16 203.71 200.19  
196.35 193.29 189.76 186.00 182.24 178.44 174.78 170.94 166.45 162.40  
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204.83 201.57 198.01 194.97 191.78 188.17 184.57 180.85 176.95 172.59  
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232.25 229.57 226.89 224.08 221.06 217.53 214.36 211.32 208.16 204.56  
201.55 198.45 194.94 191.97 188.84 185.32 181.57 177.66 173.66 170.37  
166.53 162.84 158.40 153.87 149.37 144.55 140.10 135.71 130.60 125.69  
121.19 116.80 112.00 107.35 102.32 97.12 92.60 88.47 83.63 79.63 75.49  
71.36 66.52 62.08 58.03 53.99 50.24 46.62 42.97 39.01 35.05 32.24 29.32  
26.23 23.16 20.63 18.39 16.47 14.59 13.22 12.21 11.65 11.40 11.30 11.13  
10.96 10.81 10.68 10.53 10.32 10.28 10.17 10.02 9.96 9.90 9.84 9.69 9.60  
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7.96 7.65 7.22 6.66 6.24 5.66 5.16 4.72 4.25 3.88 3.56 3.37 3.29 3.27  
3.28 3.27 3.25 3.25 3.27 3.25 3.25  
265.35 266.28 267.06 267.84 268.58 269.40 269.80 270.14 270.59 271.02  
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270.78 270.35 270.08 269.62 269.03 268.18 267.46 266.76 265.87 265.07  
264.15 263.22 262.46 261.34 260.33 259.25 257.99 256.66 255.29 253.76  
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202.75 199.69 196.65 193.09 189.50 185.93 181.97 178.19 174.30 170.59  
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123.08 117.86 113.10 108.47 104.13 99.60 94.95 90.15 85.31 79.94 74.47

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3.24 3.15 3.08  
264.72 265.84 266.84 267.66 268.54 269.54 269.96 270.54 271.27 271.71  
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239.46 237.38 235.18 232.47 230.13 227.82 225.18 222.73 220.12 217.21  
214.44 211.47 208.30 205.22 201.75 198.35 194.88 191.53 188.14 184.43  
180.92 177.28 173.52 169.25 165.29 160.58 156.32 151.92 147.14 142.70  
138.34 133.69 128.84 124.45 120.20 115.12 110.11 105.22 100.36 95.09  
89.68 83.99 78.46 74.27 69.45 64.11 58.59 52.82 47.93 43.54 39.01 34.23  
30.31 26.52 22.76 19.74 17.09 14.85 13.13 11.79 11.08 10.64 10.48 10.37  
10.38 10.34 10.37 10.33 10.26 10.28 10.25 10.21 10.20 10.20 10.10 10.10  
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10.56 10.58 10.58 10.58 10.62 10.56 9.78 9.57 10.12 10.26 10.14 10.18  
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2.99 2.96 2.96 3.01 3.01  
264.64 265.75 266.51 267.28 267.92 268.68 269.48 269.68 270.02 270.48  
270.92 271.11 271.16 271.19 271.27 271.18 271.15 271.00 270.95 270.67  
270.36 269.90 269.36 268.80 268.20 267.50 266.63 265.75 264.95 263.94  
262.65 261.34 260.07 258.58 257.33 255.98 254.57 253.04 251.66 250.00  
248.23 246.01 244.41 242.32 240.26 237.82 235.30 233.27 230.98 228.42  
225.75 223.50 221.06 218.54 215.89 213.20 210.56 207.80 204.36 201.45  
198.47 195.33 191.86 188.72 185.29 182.03 178.44 174.55 170.79 166.94  
162.68 158.93 155.12 150.99 147.15 143.00 138.25 133.90 129.32 124.21  
119.64 115.30 110.79 106.53 101.70 97.36 92.84 88.01 82.87 78.42 73.13  
68.17 63.55 59.13 54.44 49.54 44.70 39.76 35.74 31.71 27.95 24.14 21.06  
18.33 15.95 13.70 12.22 11.14 10.57 10.22 10.06 9.94 9.97 9.97 9.86 9.78  
9.80 9.73 9.69 9.68 9.65 9.58 9.54 9.52 9.56 9.64 9.65 9.66 9.68 9.65  
9.68 9.68 9.72 9.78 9.85 9.89 9.89 9.88 9.88 9.88 9.86 9.85 9.89 9.90  
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7.54 7.08 6.94 6.94 6.98 6.97 6.92 6.92 6.89 6.81 6.28 5.68 5.16 4.41  
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264.63 265.10 265.74 266.24 266.51 266.82 266.88 266.91 266.98 267.10  
267.07 266.78 266.35 265.63 264.88 264.04 263.10 261.87 260.75 259.25  
258.05 256.86 256.01 254.85 253.82 252.78 251.80 250.61 249.57 248.31  
246.84 245.37 243.72 241.81 240.04 238.35 236.39 234.19 232.29 230.15  
228.11 225.89 223.53 221.10 218.42 215.85 213.12 209.92 206.90 203.48  
199.61 196.14 192.17 188.72 185.35 181.63 177.43 173.48 170.07 165.33  
161.40 157.14 152.72 148.92 144.28 139.35 135.07 130.62 126.00 121.48  
117.20 112.71 107.65 103.55 99.05 93.92 89.56 85.00 80.83 76.74 72.81  
68.18 64.16 59.57 55.07 51.19 47.43 44.05 40.20 36.76 33.47 30.20 27.37  
24.43 21.68 19.24 17.06 14.91 13.41 12.03 11.06 10.54 10.34 10.21 10.09  
9.88 9.76 9.64 9.50 9.40 9.29 9.22 9.10 8.97 8.88 8.81 8.76 8.62 8.61  
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266.04 266.00 265.91 265.82 265.60 265.28 264.98 264.59 264.08 263.49  
262.81 261.93 260.82 259.51 258.13 256.71 254.84 253.13 251.46 249.77  
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230.11 227.73 225.44 222.86 220.54 217.85 215.19 212.49 209.42 206.47  
203.22 199.35 195.46 191.29 187.00 183.37 179.74 175.64 172.02 168.09  
164.45 159.73 155.52 151.35 146.51 142.07 137.06 131.44 125.21 120.32  
115.72 110.66 105.86 100.72 95.36 88.93 82.82 77.81 72.56 67.28 61.80  
55.99 51.30 45.83 40.41 36.18 31.45 27.07 22.90 18.89 15.27 12.14 9.40  
6.94 4.77 3.19 2.13 1.47 1.01 0.75 0.36 0.39 0.53 0.61 0.73 0.83 0.97  
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2.35 2.31 2.35 2.31 2.33 2.36 2.39 2.44 2.48 2.49 2.49 2.48 2.44 2.43  
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