

IES INDOOR REPORT

PHOTOMETRIC FILENAME : TALED-SA-WALL MOUNTED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Lumentra, Inc. 160 Frobisher Drive, Unit 5 Waterloo, Ontario

[ISSUE DATE] 10-01-2021

[MANUFAC] BEGHELLI

[LUMCAT] TALED-SA - WALL MOUNTED

[LUMINAIRE] LED LUMINAIRE WITH SPECULAR INTERIOR AND TRANSLUCENT PRISMATIC LENS

[LAMP] TWO LED BOARDS (40 LEDS EACH). LUMEN OUTPUT = 1320 LMS.

[AGI32] File was generated from AGI32

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | 660 (2 lamps) |
| Total Lamp Lumens | 1320 |
| Luminaire Lumens | 1320 |
| Total Luminaire Efficiency | 100 % |
| Luminaire Efficacy Rating (LER) | 126 |
| Total Luminaire Watts | 10.5 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.20 |
| Spacing Criterion (90-270) | 1.26 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 1.21 ft |
| Luminous Width (90-270) | 0.42 ft |
| Luminous Height | 0.08 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 6647 | 6704 | 7320 |
| 55 | 5858 | 6394 | 7291 |
| 65 | 4916 | 5977 | 7334 |
| 75 | 3741 | 5724 | 7766 |
| 85 | 1926 | 5921 | 9175 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 403.307 | 403.307 | 403.307 | 403.307 | 403.307 |
| 2.5 | 402.643 | 402.643 | 403.307 | 403.970 | 403.970 |
| 5.0 | 401.980 | 401.317 | 402.643 | 403.307 | 402.643 |
| 7.5 | 399.990 | 399.990 | 399.990 | 399.327 | 398.000 |
| 10.0 | 396.673 | 396.673 | 394.683 | 392.693 | 392.030 |
| 12.5 | 392.030 | 391.367 | 388.050 | 385.397 | 384.733 |
| 15.0 | 385.397 | 384.070 | 379.427 | 378.100 | 377.437 |
| 17.5 | 378.100 | 376.110 | 371.467 | 370.803 | 369.477 |
| 20.0 | 369.477 | 366.823 | 362.843 | 362.180 | 362.180 |
| 22.5 | 360.190 | 356.873 | 354.220 | 354.883 | 354.883 |
| 25.0 | 349.577 | 345.597 | 344.270 | 346.923 | 347.587 |
| 27.5 | 336.973 | 333.657 | 333.657 | 337.637 | 339.627 |
| 30.0 | 324.370 | 321.053 | 323.043 | 329.677 | 333.657 |
| 32.5 | 311.103 | 309.113 | 313.093 | 323.707 | 327.687 |
| 35.0 | 297.173 | 295.847 | 302.480 | 316.410 | 321.053 |
| 37.5 | 281.917 | 281.917 | 291.867 | 309.113 | 314.420 |
| 40.0 | 266.660 | 268.650 | 283.243 | 301.817 | 307.123 |
| 42.5 | 252.067 | 255.383 | 273.957 | 293.857 | 299.827 |
| 45.0 | 236.810 | 241.453 | 264.670 | 285.233 | 291.203 |
| 47.5 | 220.890 | 227.523 | 253.393 | 275.283 | 281.917 |
| 50.0 | 205.633 | 213.593 | 242.780 | 265.333 | 272.630 |
| 52.5 | 189.713 | 199.663 | 230.177 | 254.720 | 262.017 |
| 55.0 | 173.793 | 185.733 | 218.237 | 243.443 | 251.403 |
| 57.5 | 158.537 | 172.467 | 206.297 | 232.167 | 240.127 |
| 60.0 | 143.280 | 159.200 | 193.693 | 220.227 | 229.513 |
| 62.5 | 127.360 | 144.607 | 179.763 | 208.287 | 218.237 |
| 65.0 | 112.103 | 130.677 | 165.833 | 196.347 | 206.297 |
| 67.5 | 97.510 | 116.747 | 153.230 | 185.070 | 195.683 |
| 70.0 | 83.580 | 103.480 | 141.290 | 173.793 | 184.407 |
| 72.5 | 70.313 | 90.213 | 128.687 | 161.853 | 173.130 |
| 75.0 | 57.047 | 77.610 | 117.410 | 151.240 | 162.517 |
| 77.5 | 44.443 | 66.333 | 106.133 | 140.627 | 151.903 |
| 80.0 | 33.167 | 55.720 | 96.183 | 129.350 | 140.627 |
| 82.5 | 22.553 | 46.433 | 85.570 | 118.737 | 131.340 |
| 85.0 | 13.930 | 37.810 | 74.957 | 107.460 | 120.063 |
| 87.5 | 7.960 | 29.187 | 64.343 | 94.857 | 107.460 |
| 90.0 | 5.307 | 20.563 | 53.067 | 82.253 | 94.857 |
| 92.5 | 5.307 | 14.593 | 43.780 | 70.313 | 82.253 |
| 95.0 | 5.307 | 11.277 | 35.820 | 59.037 | 70.313 |
| 97.5 | 4.643 | 9.287 | 29.187 | 50.413 | 60.363 |
| 100.0 | 4.643 | 7.297 | 23.217 | 42.453 | 51.740 |
| 102.5 | 3.980 | 5.307 | 19.237 | 35.157 | 42.453 |
| 105.0 | 3.980 | 3.980 | 15.920 | 29.187 | 35.157 |
| 107.5 | 3.317 | 2.653 | 12.603 | 24.543 | 29.187 |
| 110.0 | 2.653 | 1.990 | 9.950 | 19.900 | 24.543 |
| 112.5 | 1.990 | 1.327 | 6.633 | 16.583 | 19.900 |
| 115.0 | 1.990 | 1.327 | 3.980 | 12.603 | 16.583 |
| 117.5 | 1.327 | 0.663 | 1.327 | 9.287 | 12.603 |
| 120.0 | 0.663 | 0.663 | 0.663 | 5.970 | 8.623 |
| 122.5 | 0.663 | 0.000 | 0.000 | 3.317 | 5.307 |
| 125.0 | 0.000 | 0.000 | 0.000 | 1.327 | 2.653 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.663 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TALED SA-WALL MOUNTED.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|--------|
| 0-20 | 145.55 | 11.00 | 11.00 |
| 0-30 | 305.07 | 23.10 | 23.10 |
| 0-40 | 496.63 | 37.60 | 37.60 |
| 0-60 | 892.58 | 67.60 | 67.60 |
| 0-80 | 1175.32 | 89.00 | 89.00 |
| 0-90 | 1253.56 | 95.00 | 94.90 |
| 10-90 | 1215.4 | 92.10 | 92.10 |
| 20-40 | 351.08 | 26.60 | 26.60 |
| 20-50 | 554.51 | 42.00 | 42.00 |
| 40-70 | 557.86 | 42.30 | 42.30 |
| 60-80 | 282.75 | 21.40 | 21.40 |
| 70-80 | 120.83 | 9.20 | 9.20 |
| 80-90 | 78.24 | 5.90 | 5.90 |
| 90-110 | 58.99 | 4.50 | 4.50 |
| 90-120 | 65.84 | 5.00 | 5.00 |
| 90-130 | 66.72 | 5.10 | 5.10 |
| 90-150 | 66.72 | 5.10 | 5.10 |
| 90-180 | 66.72 | 5.10 | 5.10 |
| 110-180 | 7.73 | 0.60 | 0.60 |
| 0-180 | 1320.28 | 100.00 | 100.00 |

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 38.16 |
| 10-20 | 107.39 |
| 20-30 | 159.51 |
| 30-40 | 191.56 |
| 40-50 | 203.43 |
| 50-60 | 192.51 |
| 60-70 | 161.92 |
| 70-80 | 120.83 |
| 80-90 | 78.24 |
| 90-100 | 40.36 |
| 100-110 | 18.63 |
| 110-120 | 6.85 |
| 120-130 | 0.88 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| 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 | 0 |
| 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 108 | 108 | 108 | 103 | 103 | 103 | 97 | 97 | 97 | 95 |
| 1 | 106 | 100 | 95 | 90 | 102 | 97 | 92 | 88 | 92 | 88 | 85 | 87 | 84 | 81 | 82 | 80 | 78 | 75 |
| 2 | 95 | 86 | 78 | 72 | 92 | 84 | 77 | 71 | 79 | 73 | 68 | 75 | 70 | 66 | 71 | 67 | 64 | 61 |
| 3 | 86 | 75 | 66 | 59 | 83 | 73 | 65 | 58 | 69 | 62 | 57 | 66 | 60 | 55 | 62 | 58 | 53 | 51 |
| 4 | 79 | 66 | 57 | 50 | 76 | 64 | 56 | 49 | 61 | 54 | 48 | 58 | 52 | 47 | 55 | 50 | 45 | 43 |
| 5 | 72 | 59 | 49 | 43 | 70 | 57 | 49 | 42 | 55 | 47 | 41 | 52 | 45 | 40 | 50 | 44 | 39 | 37 |
| 6 | 67 | 53 | 44 | 37 | 65 | 52 | 43 | 37 | 49 | 42 | 36 | 47 | 40 | 35 | 45 | 39 | 34 | 32 |
| 7 | 62 | 48 | 39 | 33 | 60 | 47 | 38 | 32 | 45 | 37 | 32 | 43 | 36 | 31 | 41 | 35 | 30 | 28 |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 34 | 29 | 41 | 34 | 28 | 39 | 33 | 28 | 38 | 32 | 27 | 25 |
| 9 | 54 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 38 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 |
| 10 | 50 | 37 | 29 | 24 | 49 | 36 | 29 | 23 | 35 | 28 | 23 | 34 | 27 | 23 | 32 | 27 | 22 | 20 |

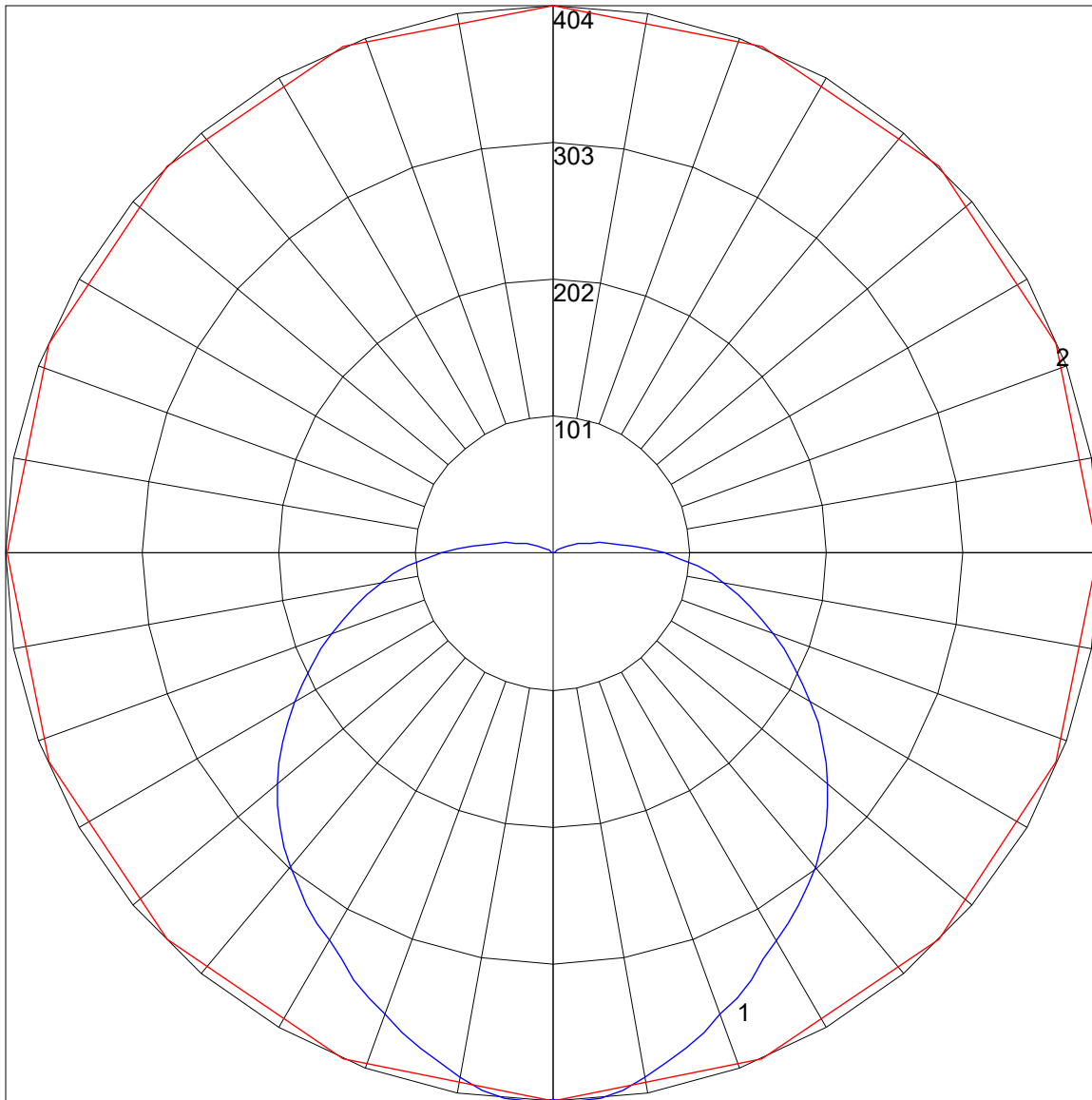
IES INDOOR REPORT
PHOTOMETRIC FILENAME : TALED5A-WALL MOUNTED.IES

UGR TABLE - CORRECTED

| Reflectances | | | | | | | | | | | |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| Ceiling Cavity | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room Size | | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | |
| X=2H | Y=2H | 16.7 | 18.3 | 17.2 | 18.7 | 19.2 | 19.3 | 20.9 | 19.7 | 21.3 | 21.7 |
| | 3H | 18.2 | 19.7 | 18.7 | 20.1 | 20.6 | 21.8 | 23.3 | 22.3 | 23.7 | 24.2 |
| | 4H | 18.7 | 20.1 | 19.2 | 20.5 | 21.0 | 23.0 | 24.4 | 23.5 | 24.9 | 25.4 |
| | 6H | 19.0 | 20.3 | 19.5 | 20.8 | 21.3 | 24.3 | 25.6 | 24.8 | 26.1 | 26.6 |
| | 8H | 19.1 | 20.4 | 19.6 | 20.8 | 21.4 | 25.0 | 26.2 | 25.5 | 26.7 | 27.2 |
| | 12H | 19.2 | 20.3 | 19.7 | 20.8 | 21.4 | 25.6 | 26.8 | 26.1 | 27.3 | 27.8 |
| 4H | 2H | 17.8 | 19.2 | 18.2 | 19.6 | 20.1 | 19.7 | 21.1 | 20.2 | 21.6 | 22.1 |
| | 3H | 19.5 | 20.7 | 20.0 | 21.2 | 21.7 | 22.5 | 23.7 | 23.0 | 24.2 | 24.7 |
| | 4H | 20.1 | 21.2 | 20.7 | 21.7 | 22.3 | 24.0 | 25.0 | 24.5 | 25.5 | 26.1 |
| | 6H | 20.6 | 21.5 | 21.1 | 22.1 | 22.6 | 25.4 | 26.4 | 26.0 | 26.9 | 27.5 |
| | 8H | 20.7 | 21.6 | 21.2 | 22.1 | 22.7 | 26.2 | 27.1 | 26.7 | 27.6 | 28.2 |
| | 12H | 20.8 | 21.6 | 21.3 | 22.2 | 22.8 | 27.0 | 27.8 | 27.5 | 28.4 | 28.9 |
| 8H | 4H | 21.0 | 21.9 | 21.5 | 22.4 | 23.0 | 24.2 | 25.1 | 24.7 | 25.6 | 26.2 |
| | 6H | 21.6 | 22.4 | 22.2 | 23.0 | 23.6 | 25.9 | 26.6 | 26.4 | 27.2 | 27.8 |
| | 8H | 21.9 | 22.6 | 22.5 | 23.2 | 23.7 | 26.8 | 27.5 | 27.4 | 28.1 | 28.7 |
| | 12H | 22.0 | 22.7 | 22.6 | 23.2 | 23.9 | 27.8 | 28.4 | 28.4 | 29.0 | 29.6 |
| 12H | 4H | 21.2 | 22.1 | 21.8 | 22.6 | 23.2 | 24.2 | 25.0 | 24.8 | 25.6 | 26.2 |
| | 6H | 22.0 | 22.7 | 22.6 | 23.3 | 23.9 | 25.9 | 26.6 | 26.5 | 27.2 | 27.8 |
| | 8H | 22.4 | 23.0 | 22.9 | 23.6 | 24.2 | 26.9 | 27.5 | 27.5 | 28.1 | 28.8 |

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 403.97 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)