



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-4-LED-6040-FB-VHO-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L445 VHO NW
 [TESTLAB] Dekko
 [TESTDATE] 04-10-2017
 [ISSUE DATE] 9/2/2020
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] CURV-4-LED-6040-FB-VHO-30
 [OTHER] TEST PROCEDURE: IESNA LM-79-08
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
 [OTHER] SCALED FROM ORIGINAL TEST DATA
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 4628 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 64 |
| Total Luminaire Watts | 71.9 |
| Ballast Factor | 1.00 |
| CIE Type | General Diffuse |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.75 ft |
| Luminous Height | 0.00 ft |



LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2667 | 2353 | 2280 |
| 55 | 2179 | 1666 | 1400 |
| 65 | 1456 | 881 | 611 |
| 75 | 783 | 510 | 415 |
| 85 | 1157 | 1151 | 1061 |

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CANDELA TABULATION

| | <u>0</u> | <u>10</u> | <u>20</u> | <u>30</u> | <u>40</u> | <u>50</u> | <u>60</u> | <u>70</u> | <u>80</u> | <u>90</u> |
|------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 924.174 | 924.174 | 924.174 | 924.174 | 924.174 | 924.174 | 924.174 | 924.174 | 924.174 | 924.174 |
| 10 | 915.130 | 909.748 | 908.608 | 906.701 | 904.240 | 902.735 | 900.792 | 897.784 | 897.859 | 897.188 |
| 20 | 854.656 | 852.430 | 848.552 | 843.413 | 837.976 | 830.937 | 826.767 | 821.732 | 818.804 | 818.288 |
| 30 | 747.630 | 745.083 | 735.553 | 722.446 | 714.925 | 711.301 | 712.166 | 710.306 | 709.021 | 709.110 |
| 40 | 612.081 | 606.467 | 588.214 | 572.040 | 560.011 | 557.291 | 557.966 | 559.964 | 558.332 | 559.216 |
| 50 | 439.959 | 430.406 | 407.316 | 389.626 | 375.995 | 363.665 | 352.614 | 345.470 | 341.365 | 340.151 |
| 60 | 257.326 | 245.619 | 220.989 | 200.007 | 177.132 | 149.223 | 126.580 | 114.159 | 110.485 | 108.022 |
| 70 | 86.071 | 81.124 | 70.705 | 55.721 | 46.247 | 43.026 | 40.420 | 37.646 | 36.405 | 35.967 |
| 80 | 26.975 | 28.092 | 28.736 | 29.088 | 29.258 | 28.720 | 28.198 | 26.869 | 24.507 | 23.901 |
| 90 | 29.276 | 29.237 | 29.146 | 28.577 | 27.538 | 26.382 | 25.514 | 25.601 | 27.737 | 27.681 |
| 100 | 206.106 | 215.020 | 209.795 | 218.602 | 214.958 | 201.690 | 185.537 | 164.468 | 152.120 | 145.303 |
| 110 | 458.041 | 480.038 | 469.906 | 458.868 | 436.008 | 410.346 | 374.080 | 342.733 | 292.319 | 274.877 |
| 120 | 569.186 | 593.121 | 584.219 | 571.961 | 554.880 | 517.478 | 486.994 | 447.666 | 385.482 | 382.622 |
| 130 | 633.115 | 641.733 | 647.233 | 629.917 | 614.913 | 592.475 | 561.569 | 499.195 | 469.689 | 470.006 |
| 140 | 660.640 | 665.276 | 681.339 | 672.646 | 652.672 | 625.913 | 574.515 | 531.875 | 533.105 | 534.247 |
| 150 | 663.926 | 669.633 | 663.959 | 665.543 | 634.075 | 586.957 | 570.499 | 571.807 | 575.211 | 576.938 |
| 160 | 571.616 | 573.191 | 578.204 | 581.570 | 585.491 | 589.729 | 592.721 | 595.842 | 598.729 | 599.429 |
| 170 | 582.249 | 581.936 | 583.990 | 587.717 | 591.217 | 594.239 | 597.214 | 598.582 | 599.725 | 600.567 |
| 180 | 590.109 | 590.109 | 590.109 | 590.109 | 590.109 | 590.109 | 590.109 | 590.109 | 590.109 | 590.109 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 333.73 | N.A. | 7.20 |
| 0-30 | 693.90 | N.A. | 15.00 |
| 0-40 | 1099.96 | N.A. | 23.80 |
| 0-60 | 1712.89 | N.A. | 37.00 |
| 0-80 | 1865.53 | N.A. | 40.30 |
| 0-90 | 1895.66 | N.A. | 41.00 |
| 10-90 | 1808.41 | N.A. | 39.10 |
| 20-40 | 766.23 | N.A. | 16.60 |
| 20-50 | 1133.77 | N.A. | 24.50 |
| 40-70 | 723.17 | N.A. | 15.60 |
| 60-80 | 152.63 | N.A. | 3.30 |
| 70-80 | 42.39 | N.A. | 0.90 |
| 80-90 | 30.13 | N.A. | 0.70 |
| 90-110 | 435.92 | N.A. | 9.40 |
| 90-120 | 890.78 | N.A. | 19.20 |
| 90-130 | 1380.53 | N.A. | 29.80 |
| 90-150 | 2229.89 | N.A. | 48.20 |
| 90-180 | 2732.07 | N.A. | 59.00 |
| 110-180 | 2296.15 | N.A. | 49.60 |
| 0-180 | 4627.73 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 87.25 |
| 10-20 | 246.49 |
| 20-30 | 360.17 |
| 30-40 | 406.06 |
| 40-50 | 367.54 |
| 50-60 | 245.39 |
| 60-70 | 110.25 |
| 70-80 | 42.39 |
| 80-90 | 30.13 |
| 90-100 | 120.39 |
| 100-110 | 315.53 |
| 110-120 | 454.86 |
| 120-130 | 489.75 |
| 130-140 | 462.22 |
| 140-150 | 387.14 |
| 150-160 | 278.72 |
| 160-170 | 167.04 |
| 170-180 | 56.41 |

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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 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 78 | 78 | 78 | 62 | 62 | 62 | 48 | 48 | 48 | 41 |
| 1 | 96 | 92 | 89 | 86 | 88 | 84 | 81 | 79 | 70 | 67 | 66 | 56 | 54 | 53 | 43 | 42 | 42 | 36 |
| 2 | 88 | 82 | 76 | 71 | 80 | 75 | 70 | 66 | 62 | 58 | 55 | 50 | 48 | 46 | 39 | 37 | 36 | 31 |
| 3 | 81 | 72 | 65 | 60 | 74 | 66 | 60 | 56 | 55 | 51 | 47 | 45 | 42 | 39 | 35 | 33 | 32 | 27 |
| 4 | 74 | 64 | 57 | 51 | 68 | 59 | 53 | 48 | 49 | 45 | 41 | 40 | 37 | 34 | 32 | 30 | 28 | 24 |
| 5 | 68 | 58 | 50 | 44 | 62 | 53 | 46 | 41 | 44 | 39 | 36 | 36 | 33 | 30 | 29 | 26 | 25 | 21 |
| 6 | 63 | 52 | 44 | 39 | 58 | 48 | 41 | 36 | 40 | 35 | 31 | 33 | 29 | 27 | 26 | 24 | 22 | 19 |
| 7 | 59 | 47 | 39 | 34 | 53 | 43 | 37 | 32 | 37 | 31 | 28 | 30 | 26 | 24 | 24 | 22 | 20 | 17 |
| 8 | 54 | 43 | 35 | 30 | 50 | 39 | 33 | 28 | 33 | 28 | 25 | 28 | 24 | 21 | 22 | 20 | 18 | 15 |
| 9 | 51 | 39 | 32 | 27 | 46 | 36 | 30 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 21 | 18 | 16 | 14 |
| 10 | 47 | 36 | 29 | 24 | 43 | 33 | 27 | 23 | 28 | 23 | 20 | 24 | 20 | 17 | 19 | 17 | 15 | 13 |

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UGR TABLE - CORRECTED

Reflectances

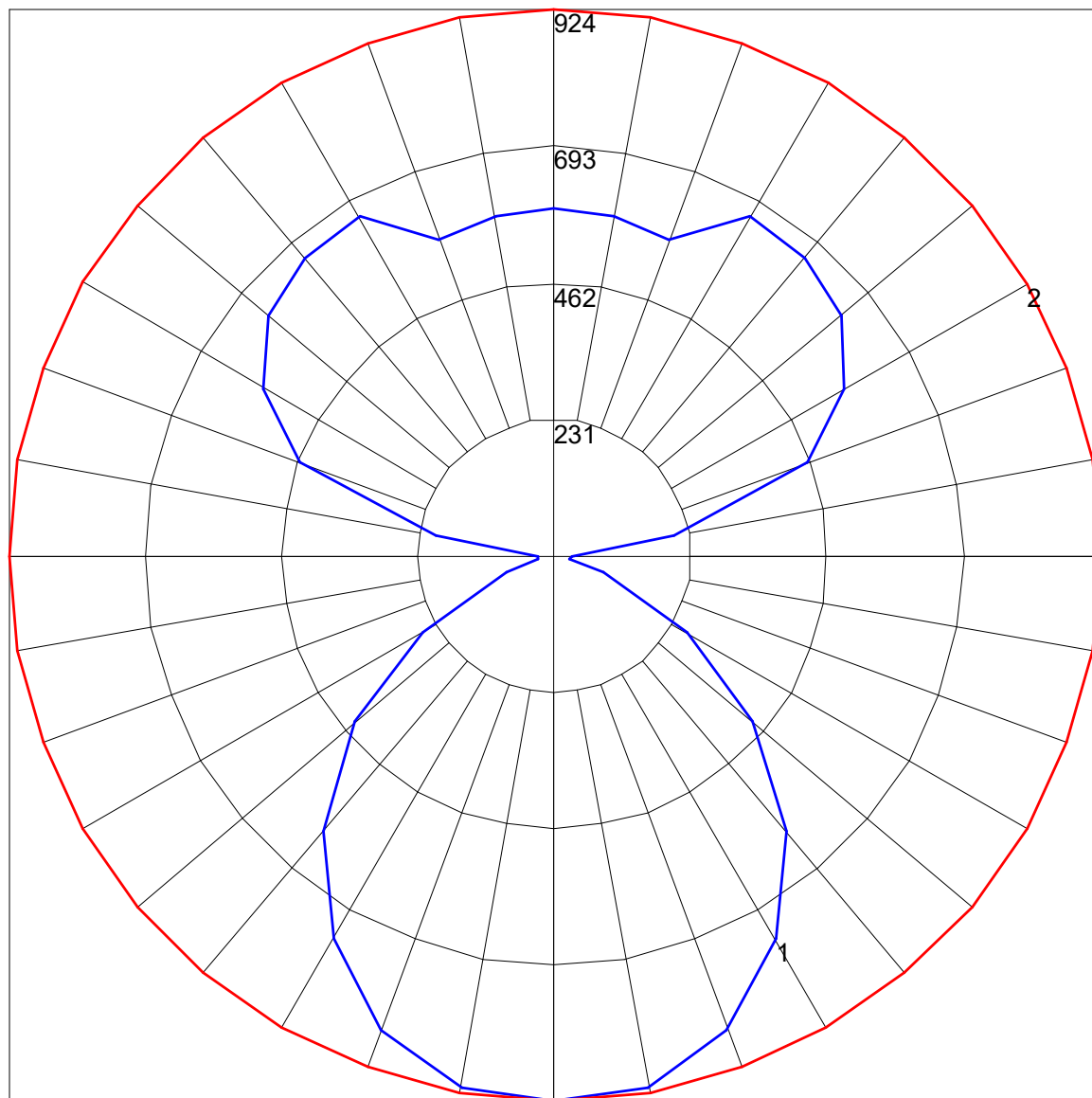
| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

Room Size UGR Viewed Crosswise

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|--------------------|-----|-----|-----|------|
| X=2H | Y=2H | 9.1 | 9.8 | 10.1 | 10.8 | 12.2 | UGR Viewed Endwise | | | | |
| | 3H | 9.7 | 10.4 | 10.8 | 11.4 | 12.9 | 5.8 | 6.5 | 6.8 | 7.6 | 9.0 |
| | 4H | 9.9 | 10.5 | 11.0 | 11.6 | 13.0 | 6.1 | 6.7 | 7.1 | 7.8 | 9.2 |
| | 6H | 10.0 | 10.6 | 11.1 | 11.6 | 13.1 | 6.2 | 6.8 | 7.3 | 7.9 | 9.3 |
| | 8H | 10.0 | 10.6 | 11.1 | 11.7 | 13.1 | 6.4 | 7.0 | 7.5 | 8.0 | 9.5 |
| | 12H | 10.2 | 10.7 | 11.2 | 11.7 | 13.2 | 6.6 | 7.1 | 7.6 | 8.2 | 9.6 |
| 4H | 2H | 9.0 | 9.6 | 10.1 | 10.7 | 12.1 | 6.9 | 7.4 | 7.9 | 8.4 | 9.9 |
| | 3H | 9.7 | 10.3 | 10.8 | 11.3 | 12.8 | 6.1 | 6.7 | 7.2 | 7.8 | 9.2 |
| | 4H | 10.0 | 10.5 | 11.1 | 11.6 | 13.0 | 6.5 | 7.0 | 7.6 | 8.1 | 9.5 |
| | 6H | 10.2 | 10.6 | 11.3 | 11.7 | 13.2 | 6.7 | 7.2 | 7.8 | 8.3 | 9.7 |
| | 8H | 10.3 | 10.7 | 11.4 | 11.8 | 13.2 | 7.0 | 7.4 | 8.1 | 8.5 | 10.0 |
| | 12H | 10.5 | 10.9 | 11.6 | 12.0 | 13.4 | 7.3 | 7.7 | 8.4 | 8.8 | 10.2 |
| 8H | 4H | 9.9 | 10.3 | 11.0 | 11.4 | 12.9 | 7.7 | 8.1 | 8.9 | 9.2 | 10.7 |
| | 6H | 10.2 | 10.5 | 11.3 | 11.7 | 13.1 | 6.8 | 7.2 | 7.9 | 8.3 | 9.8 |
| | 8H | 10.4 | 10.7 | 11.6 | 11.8 | 13.3 | 7.3 | 7.7 | 8.5 | 8.8 | 10.2 |
| | 12H | 10.8 | 11.1 | 11.9 | 12.2 | 13.7 | 7.8 | 8.0 | 8.9 | 9.2 | 10.6 |
| 12H | 4H | 9.9 | 10.2 | 11.0 | 11.3 | 12.8 | 8.5 | 8.7 | 9.6 | 9.8 | 11.3 |
| | 6H | 10.2 | 10.5 | 11.3 | 11.6 | 13.1 | 6.8 | 7.2 | 7.9 | 8.3 | 9.7 |
| | 8H | 10.5 | 10.7 | 11.6 | 11.8 | 13.4 | 7.4 | 7.7 | 8.5 | 8.8 | 10.3 |

Maximum UGR = 13.7

POLAR GRAPH



Maximum Candela = 924.174 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)