



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-8-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-8-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 | 9255 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 64 |
| Total Luminaire Watts | 143.8 |
| 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) | 8.00 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 | 1848.348 | 1848.348 | 1848.348 | 1848.348 | 1848.348 | 1848.348 | 1848.348 | 1848.348 | 1848.348 | 1848.348 |
| 10 | 1830.260 | 1819.496 | 1817.216 | 1813.402 | 1808.480 | 1805.469 | 1801.584 | 1795.568 | 1795.718 | 1794.376 |
| 20 | 1709.312 | 1704.860 | 1697.104 | 1686.827 | 1675.952 | 1661.873 | 1653.533 | 1643.464 | 1637.609 | 1636.576 |
| 30 | 1495.261 | 1490.166 | 1471.107 | 1444.891 | 1429.849 | 1422.602 | 1424.332 | 1420.613 | 1418.042 | 1418.219 |
| 40 | 1224.162 | 1212.933 | 1176.427 | 1144.080 | 1120.023 | 1114.582 | 1115.933 | 1119.928 | 1116.663 | 1118.431 |
| 50 | 879.918 | 860.812 | 814.632 | 779.251 | 751.990 | 727.329 | 705.229 | 690.939 | 682.729 | 680.303 |
| 60 | 514.653 | 491.238 | 441.978 | 400.015 | 354.264 | 298.446 | 253.159 | 228.319 | 220.970 | 216.044 |
| 70 | 172.141 | 162.249 | 141.410 | 111.442 | 92.493 | 86.051 | 80.841 | 75.293 | 72.811 | 71.934 |
| 80 | 53.950 | 56.183 | 57.473 | 58.176 | 58.516 | 57.439 | 56.396 | 53.737 | 49.014 | 47.802 |
| 90 | 58.552 | 58.474 | 58.292 | 57.154 | 55.076 | 52.763 | 51.028 | 51.202 | 55.475 | 55.361 |
| 100 | 412.212 | 430.041 | 419.589 | 437.205 | 429.916 | 403.380 | 371.074 | 328.936 | 304.240 | 290.606 |
| 110 | 916.082 | 960.076 | 939.812 | 917.736 | 872.016 | 820.691 | 748.160 | 685.466 | 584.638 | 549.754 |
| 120 | 1138.371 | 1186.242 | 1168.438 | 1143.922 | 1109.759 | 1034.956 | 973.989 | 895.331 | 770.964 | 765.244 |
| 130 | 1266.231 | 1283.467 | 1294.466 | 1259.833 | 1229.827 | 1184.950 | 1123.138 | 998.389 | 939.378 | 940.012 |
| 140 | 1321.279 | 1330.552 | 1362.678 | 1345.292 | 1305.343 | 1251.825 | 1149.030 | 1063.751 | 1066.211 | 1068.494 |
| 150 | 1327.851 | 1339.265 | 1327.918 | 1331.086 | 1268.151 | 1173.915 | 1140.997 | 1143.615 | 1150.422 | 1153.875 |
| 160 | 1143.233 | 1146.382 | 1156.407 | 1163.139 | 1170.981 | 1179.457 | 1185.442 | 1191.685 | 1197.457 | 1198.857 |
| 170 | 1164.498 | 1163.873 | 1167.979 | 1175.434 | 1182.434 | 1188.478 | 1194.427 | 1197.164 | 1199.449 | 1201.135 |
| 180 | 1180.218 | 1180.218 | 1180.218 | 1180.218 | 1180.218 | 1180.218 | 1180.218 | 1180.218 | 1180.218 | 1180.218 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 667.47 | N.A. | 7.20 |
| 0-30 | 1387.8 | N.A. | 15.00 |
| 0-40 | 2199.93 | N.A. | 23.80 |
| 0-60 | 3425.79 | N.A. | 37.00 |
| 0-80 | 3731.05 | N.A. | 40.30 |
| 0-90 | 3791.32 | N.A. | 41.00 |
| 10-90 | 3616.82 | N.A. | 39.10 |
| 20-40 | 1532.46 | N.A. | 16.60 |
| 20-50 | 2267.54 | N.A. | 24.50 |
| 40-70 | 1446.35 | N.A. | 15.60 |
| 60-80 | 305.27 | N.A. | 3.30 |
| 70-80 | 84.78 | N.A. | 0.90 |
| 80-90 | 60.26 | N.A. | 0.70 |
| 90-110 | 871.84 | N.A. | 9.40 |
| 90-120 | 1781.57 | N.A. | 19.20 |
| 90-130 | 2761.06 | N.A. | 29.80 |
| 90-150 | 4459.78 | N.A. | 48.20 |
| 90-180 | 5464.13 | N.A. | 59.00 |
| 110-180 | 4592.3 | N.A. | 49.60 |
| 0-180 | 9255.45 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 174.50 |
| 10-20 | 492.97 |
| 20-30 | 720.33 |
| 30-40 | 812.13 |
| 40-50 | 735.07 |
| 50-60 | 490.78 |
| 60-70 | 220.49 |
| 70-80 | 84.78 |
| 80-90 | 60.26 |
| 90-100 | 240.77 |
| 100-110 | 631.06 |
| 110-120 | 909.73 |
| 120-130 | 979.50 |
| 130-140 | 924.44 |
| 140-150 | 774.28 |
| 150-160 | 557.45 |
| 160-170 | 334.08 |
| 170-180 | 112.82 |

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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

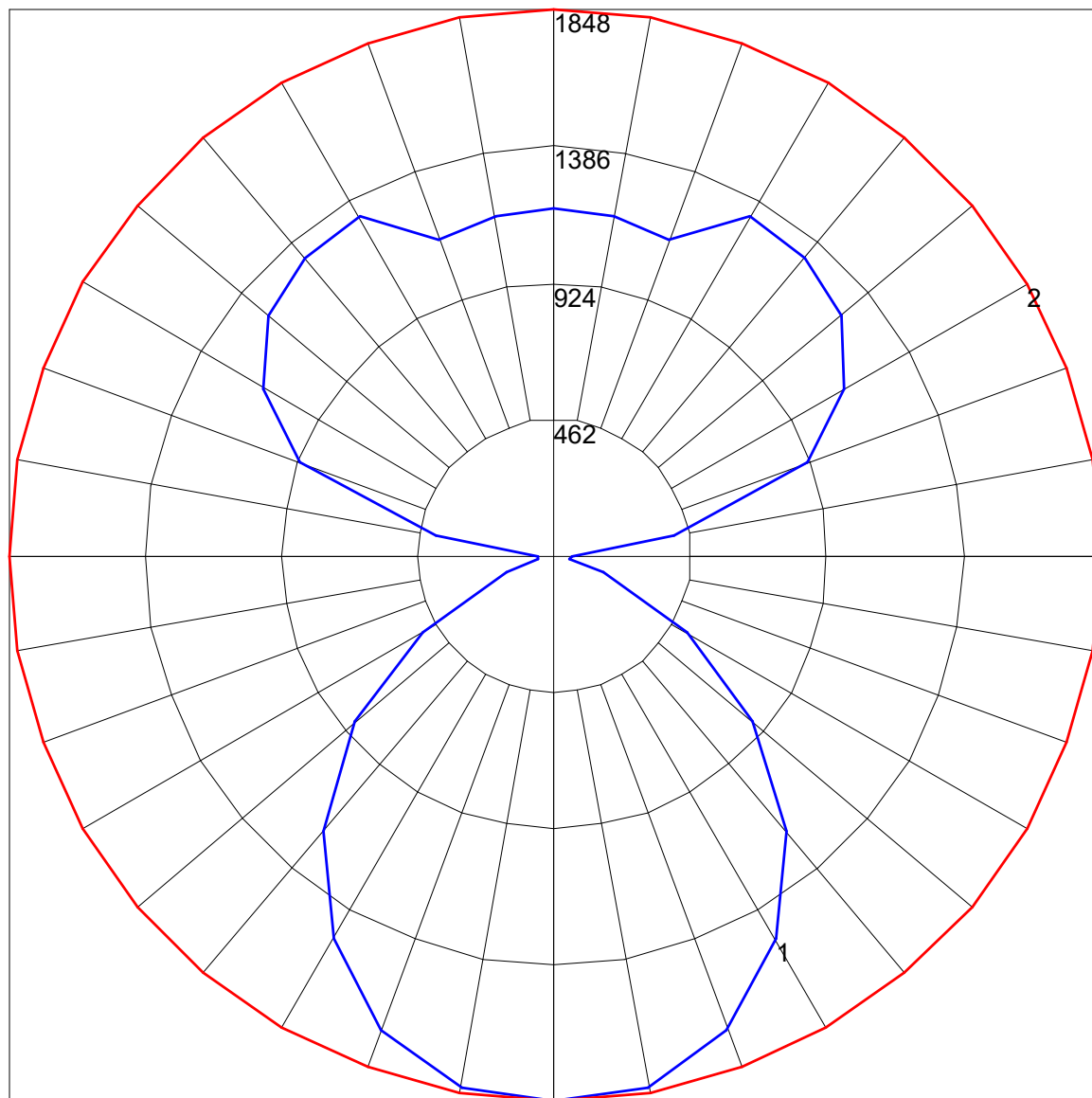
| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

Room Size UGR Viewed Crosswise

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|--------------------|-----|-----|-----|------|
| X=2H | Y=2H | 9.0 | 9.8 | 10.1 | 10.8 | 12.2 | UGR Viewed Endwise | | | | |
| | 3H | 9.7 | 10.4 | 10.8 | 11.4 | 12.9 | 7.7 | 7.7 | 7.7 | 7.7 | 8.9 |
| | 4H | 9.9 | 10.5 | 11.0 | 11.6 | 13.0 | 7.7 | 7.7 | 7.7 | 7.9 | 9.3 |
| | 6H | 10.0 | 10.6 | 11.1 | 11.6 | 13.1 | 7.7 | 7.7 | 7.7 | 8.0 | 9.5 |
| | 8H | 10.0 | 10.6 | 11.1 | 11.7 | 13.1 | 7.7 | 7.7 | 7.7 | 8.2 | 9.6 |
| | 12H | 10.1 | 10.7 | 11.2 | 11.7 | 13.2 | 7.7 | 7.7 | 7.9 | 8.4 | 9.9 |
| 4H | 2H | 9.0 | 9.6 | 10.1 | 10.7 | 12.1 | 7.7 | 7.7 | 7.7 | 7.8 | 9.2 |
| | 3H | 9.7 | 10.3 | 10.8 | 11.3 | 12.8 | 7.7 | 7.7 | 7.7 | 8.1 | 9.5 |
| | 4H | 10.0 | 10.5 | 11.1 | 11.5 | 13.0 | 7.7 | 7.7 | 7.8 | 8.2 | 9.7 |
| | 6H | 10.2 | 10.6 | 11.3 | 11.7 | 13.1 | 7.7 | 7.7 | 8.1 | 8.5 | 10.0 |
| | 8H | 10.3 | 10.7 | 11.4 | 11.8 | 13.2 | 7.7 | 7.7 | 8.4 | 8.8 | 10.2 |
| | 12H | 10.5 | 10.8 | 11.6 | 11.9 | 13.4 | 7.7 | 8.1 | 8.8 | 9.2 | 10.7 |
| 8H | 4H | 9.9 | 10.3 | 11.0 | 11.4 | 12.9 | 7.7 | 7.7 | 7.9 | 8.3 | 9.7 |
| | 6H | 10.2 | 10.5 | 11.3 | 11.7 | 13.1 | 7.7 | 7.7 | 8.4 | 8.8 | 10.2 |
| | 8H | 10.4 | 10.7 | 11.5 | 11.8 | 13.3 | 7.8 | 8.0 | 8.9 | 9.1 | 10.6 |
| | 12H | 10.8 | 11.0 | 11.9 | 12.2 | 13.7 | 8.4 | 8.7 | 9.6 | 9.8 | 11.3 |
| 12H | 4H | 9.9 | 10.2 | 11.0 | 11.3 | 12.8 | 7.7 | 7.7 | 7.9 | 8.3 | 9.7 |
| | 6H | 10.2 | 10.5 | 11.3 | 11.6 | 13.1 | 7.7 | 7.7 | 8.5 | 8.8 | 10.3 |
| | 8H | 10.5 | 10.7 | 11.6 | 11.8 | 13.4 | 7.9 | 8.2 | 9.1 | 9.3 | 10.8 |

Maximum UGR = 13.7

POLAR GRAPH



Maximum Candela = 1848.348 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.)