



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-4-LED-3070-FB-HO-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L445 HO NW 30 70
 [TESTLAB] Dekko
 [TESTDATE] 04-05-2017
 [ISSUEDATE] 9/2/2020
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] CURV-4-LED-3070-FB-HO-35
 [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 | 1968 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 41 |
| Total Luminaire Watts | 48.4 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Direct |
| Spacing Criterion (0-180) | 1.20 |
| Spacing Criterion (90-270) | 1.12 |
| Spacing Criterion (Diagonal) | 1.20 |
| 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 | 2015 | 1739 | 1612 |
| 55 | 1542 | 1099 | 850 |
| 65 | 840 | 428 | 243 |
| 75 | 200 | 78 | 49 |
| 85 | 0 | 22 | 0 |

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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 | 745.049 | 745.049 | 745.049 | 745.049 | 745.049 | 745.049 | 745.049 | 745.049 | 745.049 | 745.049 |
| 10 | 729.468 | 726.796 | 725.991 | 725.808 | 723.904 | 721.813 | 719.749 | 717.630 | 716.755 | 715.481 |
| 20 | 677.910 | 676.968 | 673.417 | 668.115 | 661.690 | 651.955 | 647.214 | 643.510 | 641.880 | 641.177 |
| 30 | 590.314 | 589.416 | 580.342 | 567.664 | 558.332 | 554.119 | 551.523 | 550.495 | 548.097 | 548.462 |
| 40 | 470.829 | 467.120 | 450.520 | 435.535 | 427.318 | 422.374 | 419.622 | 417.004 | 415.230 | 414.283 |
| 50 | 324.279 | 317.435 | 297.118 | 281.095 | 267.793 | 254.868 | 238.570 | 229.520 | 223.809 | 221.818 |
| 60 | 169.123 | 162.937 | 141.721 | 122.717 | 101.728 | 79.139 | 64.145 | 56.138 | 51.742 | 50.285 |
| 70 | 28.845 | 28.257 | 23.681 | 13.835 | 10.991 | 9.961 | 8.844 | 7.890 | 7.393 | 7.120 |
| 80 | 0.000 | 0.245 | 0.548 | 0.712 | 0.829 | 0.612 | 0.350 | 0.115 | 0.000 | 0.000 |
| 90 | 0.000 | 0.217 | 0.405 | 0.519 | 0.461 | 0.192 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100 | 35.766 | 29.272 | 27.185 | 39.749 | 31.782 | 32.969 | 29.662 | 24.894 | 19.353 | 16.705 |
| 110 | 96.355 | 90.759 | 80.749 | 75.879 | 75.254 | 81.489 | 74.160 | 69.967 | 60.624 | 58.644 |
| 120 | 132.834 | 130.025 | 122.711 | 114.659 | 106.101 | 101.978 | 98.227 | 92.789 | 87.374 | 88.057 |
| 130 | 149.241 | 148.757 | 146.958 | 140.484 | 135.188 | 130.975 | 121.500 | 115.527 | 113.904 | 113.938 |
| 140 | 159.432 | 161.905 | 161.442 | 157.704 | 150.840 | 140.752 | 137.905 | 137.008 | 136.880 | 136.971 |
| 150 | 157.498 | 157.411 | 155.846 | 155.694 | 152.813 | 152.672 | 152.782 | 152.633 | 152.969 | 153.107 |
| 160 | 157.772 | 158.188 | 161.657 | 162.353 | 162.416 | 162.586 | 162.777 | 163.253 | 163.704 | 164.077 |
| 170 | 164.414 | 164.357 | 165.348 | 167.228 | 169.190 | 169.608 | 170.097 | 169.836 | 169.720 | 169.437 |
| 180 | 167.278 | 167.278 | 167.278 | 167.278 | 167.278 | 167.278 | 167.278 | 167.278 | 167.278 | 167.278 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 265.71 | N.A. | 13.50 |
| 0-30 | 548.41 | N.A. | 27.90 |
| 0-40 | 861.34 | N.A. | 43.80 |
| 0-60 | 1294.71 | N.A. | 65.80 |
| 0-80 | 1358.66 | N.A. | 69.00 |
| 0-90 | 1358.98 | N.A. | 69.10 |
| 10-90 | 1288.94 | N.A. | 65.50 |
| 20-40 | 595.63 | N.A. | 30.30 |
| 20-50 | 865.85 | N.A. | 44.00 |
| 40-70 | 489.55 | N.A. | 24.90 |
| 60-80 | 63.95 | N.A. | 3.20 |
| 70-80 | 7.77 | N.A. | 0.40 |
| 80-90 | 0.32 | N.A. | 0.00 |
| 90-110 | 71.62 | N.A. | 3.60 |
| 90-120 | 162.65 | N.A. | 8.30 |
| 90-130 | 269.77 | N.A. | 13.70 |
| 90-150 | 473.04 | N.A. | 24.00 |
| 90-180 | 609.00 | N.A. | 30.90 |
| 110-180 | 537.38 | N.A. | 27.30 |
| 0-180 | 1967.98 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 70.03 |
| 10-20 | 195.67 |
| 20-30 | 282.70 |
| 30-40 | 312.94 |
| 40-50 | 270.22 |
| 50-60 | 163.15 |
| 60-70 | 56.18 |
| 70-80 | 7.77 |
| 80-90 | 0.32 |
| 90-100 | 15.94 |
| 100-110 | 55.69 |
| 110-120 | 91.03 |
| 120-130 | 107.12 |
| 130-140 | 108.32 |
| 140-150 | 94.95 |
| 150-160 | 73.18 |
| 160-170 | 46.77 |
| 170-180 | 16.00 |

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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 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 105 | 94 | 94 | 94 | 83 | 83 | 83 | 74 | 74 | 74 | 69 |
| 1 | 104 | 100 | 97 | 94 | 98 | 95 | 92 | 90 | 85 | 83 | 81 | 76 | 75 | 73 | 68 | 67 | 66 | 62 |
| 2 | 96 | 90 | 84 | 80 | 91 | 85 | 80 | 76 | 77 | 73 | 70 | 69 | 66 | 64 | 62 | 60 | 58 | 55 |
| 3 | 89 | 80 | 74 | 68 | 84 | 76 | 71 | 66 | 69 | 65 | 61 | 63 | 59 | 56 | 56 | 54 | 52 | 48 |
| 4 | 82 | 72 | 65 | 59 | 78 | 69 | 62 | 57 | 63 | 58 | 53 | 57 | 53 | 50 | 52 | 48 | 46 | 43 |
| 5 | 76 | 65 | 58 | 52 | 72 | 62 | 56 | 50 | 57 | 51 | 47 | 52 | 47 | 44 | 47 | 44 | 41 | 38 |
| 6 | 70 | 59 | 52 | 46 | 67 | 57 | 50 | 45 | 52 | 46 | 42 | 47 | 43 | 39 | 43 | 40 | 37 | 34 |
| 7 | 66 | 54 | 46 | 41 | 62 | 52 | 45 | 40 | 47 | 42 | 38 | 44 | 39 | 35 | 40 | 36 | 33 | 31 |
| 8 | 61 | 49 | 42 | 37 | 58 | 47 | 41 | 36 | 44 | 38 | 34 | 40 | 35 | 32 | 37 | 33 | 30 | 28 |
| 9 | 57 | 45 | 38 | 33 | 54 | 44 | 37 | 32 | 40 | 35 | 31 | 37 | 32 | 29 | 34 | 30 | 27 | 25 |
| 10 | 54 | 42 | 35 | 30 | 51 | 40 | 34 | 30 | 37 | 32 | 28 | 35 | 30 | 27 | 32 | 28 | 25 | 23 |

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UGR TABLE - CORRECTED

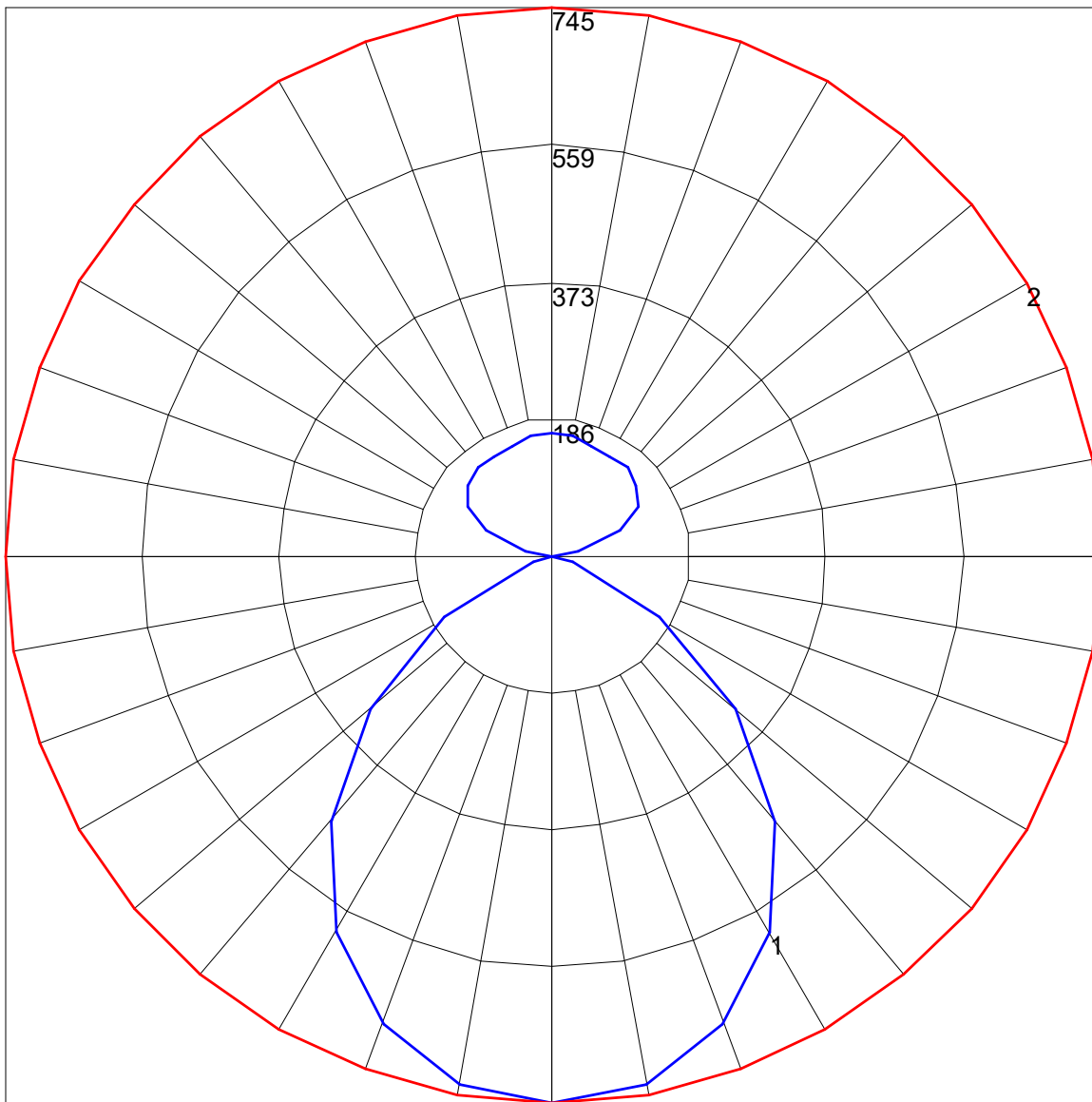
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | | | | | UGR Viewed Endwise | | | | |
|-----------|------|----------------------|------|------|------|------|--------------------|-----|-----|-----|-----|
| X=2H | Y=2H | 10.1 | 11.0 | 10.9 | 11.8 | 12.8 | 5.6 | 6.6 | 6.4 | 7.4 | 8.3 |
| | 3H | 10.3 | 11.1 | 11.1 | 11.9 | 13.0 | 5.6 | 6.4 | 6.4 | 7.2 | 8.2 |
| | 4H | 10.3 | 11.0 | 11.1 | 11.9 | 12.9 | 5.5 | 6.3 | 6.3 | 7.1 | 8.1 |
| | 6H | 10.2 | 10.9 | 11.0 | 11.7 | 12.8 | 5.4 | 6.1 | 6.3 | 7.0 | 8.0 |
| | 8H | 10.1 | 10.8 | 11.0 | 11.6 | 12.7 | 5.4 | 6.0 | 6.2 | 6.9 | 7.9 |
| | 12H | 10.1 | 10.7 | 10.9 | 11.6 | 12.6 | 5.3 | 5.9 | 6.2 | 6.8 | 7.8 |
| 4H | 2H | 9.9 | 10.7 | 10.8 | 11.5 | 12.5 | 5.8 | 6.6 | 6.6 | 7.4 | 8.4 |
| | 3H | 10.2 | 10.8 | 11.0 | 11.7 | 12.7 | 5.8 | 6.4 | 6.6 | 7.3 | 8.3 |
| | 4H | 10.1 | 10.7 | 11.0 | 11.6 | 12.6 | 5.7 | 6.3 | 6.6 | 7.1 | 8.2 |
| | 6H | 10.1 | 10.6 | 10.9 | 11.4 | 12.5 | 5.6 | 6.1 | 6.5 | 7.0 | 8.1 |
| | 8H | 10.0 | 10.5 | 10.9 | 11.3 | 12.4 | 5.6 | 6.0 | 6.4 | 6.9 | 8.0 |
| | 12H | 10.0 | 10.3 | 10.8 | 11.2 | 12.3 | 5.5 | 5.9 | 6.4 | 6.8 | 7.9 |
| 8H | 4H | 10.0 | 10.5 | 10.9 | 11.3 | 12.4 | 5.6 | 6.0 | 6.5 | 6.9 | 8.0 |
| | 6H | 9.9 | 10.3 | 10.8 | 11.2 | 12.3 | 5.5 | 5.8 | 6.4 | 6.8 | 7.8 |
| | 8H | 9.8 | 10.2 | 10.8 | 11.1 | 12.2 | 5.4 | 5.7 | 6.3 | 6.7 | 7.8 |
| | 12H | 9.8 | 10.1 | 10.7 | 11.0 | 12.1 | 5.4 | 5.6 | 6.3 | 6.5 | 7.7 |
| 12H | 4H | 9.9 | 10.3 | 10.8 | 11.2 | 12.3 | 5.5 | 5.9 | 6.4 | 6.8 | 7.9 |
| | 6H | 9.8 | 10.2 | 10.8 | 11.1 | 12.2 | 5.4 | 5.7 | 6.3 | 6.6 | 7.8 |
| | 8H | 9.8 | 10.1 | 10.7 | 11.0 | 12.1 | 5.4 | 5.7 | 6.3 | 6.5 | 7.7 |

Maximum UGR = 13.0

POLAR GRAPH



Maximum Candela = 745.049 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.)