



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-P13-835-DIM-POE-LW-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20349.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 24-APR-2018

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT

[MORE] WHITE MIXING CHAMBER & 6"CAST WHITE FLUSH TRIM w/SOLITE LENS

[LUMCAT] 6DS-P13-835-DIM-PoE-LW-OF-WH

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Direct, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1317 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 107 |
| Total Luminaire Watts | 12.3 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.04 |
| Spacing Criterion (90-270) | 1.06 |
| Spacing Criterion (Diagonal) | 1.10 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.50 ft |
| Luminous Width (90-270) | 0.50 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 12260 | 14150 | 11991 |
| 55 | 9554 | 9791 | 9459 |
| 65 | 6644 | 6644 | 6451 |
| 75 | 4213 | 4108 | 4003 |
| 85 | 938 | 626 | 1251 |

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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 | 889.197 | 889.197 | 889.197 | 889.197 | 889.197 |
| 5 | 891.732 | 887.295 | 887.295 | 886.662 | 888.563 |
| 10 | 883.493 | 879.690 | 879.056 | 875.887 | 880.958 |
| 15 | 871.451 | 865.113 | 860.043 | 857.508 | 860.043 |
| 20 | 828.354 | 837.227 | 841.663 | 830.255 | 819.481 |
| 25 | 725.681 | 745.962 | 800.467 | 753.567 | 728.850 |
| 30 | 541.884 | 605.262 | 683.217 | 609.699 | 542.518 |
| 35 | 332.102 | 399.917 | 535.546 | 377.734 | 333.370 |
| 40 | 250.978 | 275.695 | 366.960 | 264.921 | 247.809 |
| 45 | 201.543 | 213.585 | 232.598 | 207.881 | 197.106 |
| 50 | 161.615 | 168.586 | 173.656 | 164.783 | 161.615 |
| 55 | 127.390 | 127.390 | 130.559 | 128.024 | 126.123 |
| 60 | 92.532 | 93.166 | 91.898 | 91.898 | 93.800 |
| 65 | 65.280 | 65.280 | 65.280 | 64.646 | 63.378 |
| 70 | 43.097 | 42.463 | 39.928 | 41.830 | 42.463 |
| 75 | 25.351 | 24.718 | 24.718 | 24.084 | 24.084 |
| 80 | 13.943 | 12.676 | 12.042 | 12.042 | 12.042 |
| 85 | 1.901 | 2.535 | 1.268 | 1.901 | 2.535 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 327.47 | N.A. | 24.90 |
| 0-30 | 667.23 | N.A. | 50.70 |
| 0-40 | 934.57 | N.A. | 71.00 |
| 0-60 | 1219.75 | N.A. | 92.60 |
| 0-80 | 1312.25 | N.A. | 99.70 |
| 0-90 | 1316.71 | N.A. | 100.00 |
| 10-90 | 1232.26 | N.A. | 93.60 |
| 20-40 | 607.10 | N.A. | 46.10 |
| 20-50 | 777.04 | N.A. | 59.00 |
| 40-70 | 350.45 | N.A. | 26.60 |
| 60-80 | 92.50 | N.A. | 7.00 |
| 70-80 | 27.23 | N.A. | 2.10 |
| 80-90 | 4.46 | N.A. | 0.30 |
| 90-110 | 0.00 | N.A. | 0.00 |
| 90-120 | 0.00 | N.A. | 0.00 |
| 90-130 | 0.00 | N.A. | 0.00 |
| 90-150 | 0.00 | N.A. | 0.00 |
| 90-180 | 0.00 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 1316.71 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 84.46 |
| 10-20 | 243.02 |
| 20-30 | 339.75 |
| 30-40 | 267.35 |
| 40-50 | 169.95 |
| 50-60 | 115.23 |
| 60-70 | 65.27 |
| 70-80 | 27.23 |
| 80-90 | 4.46 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

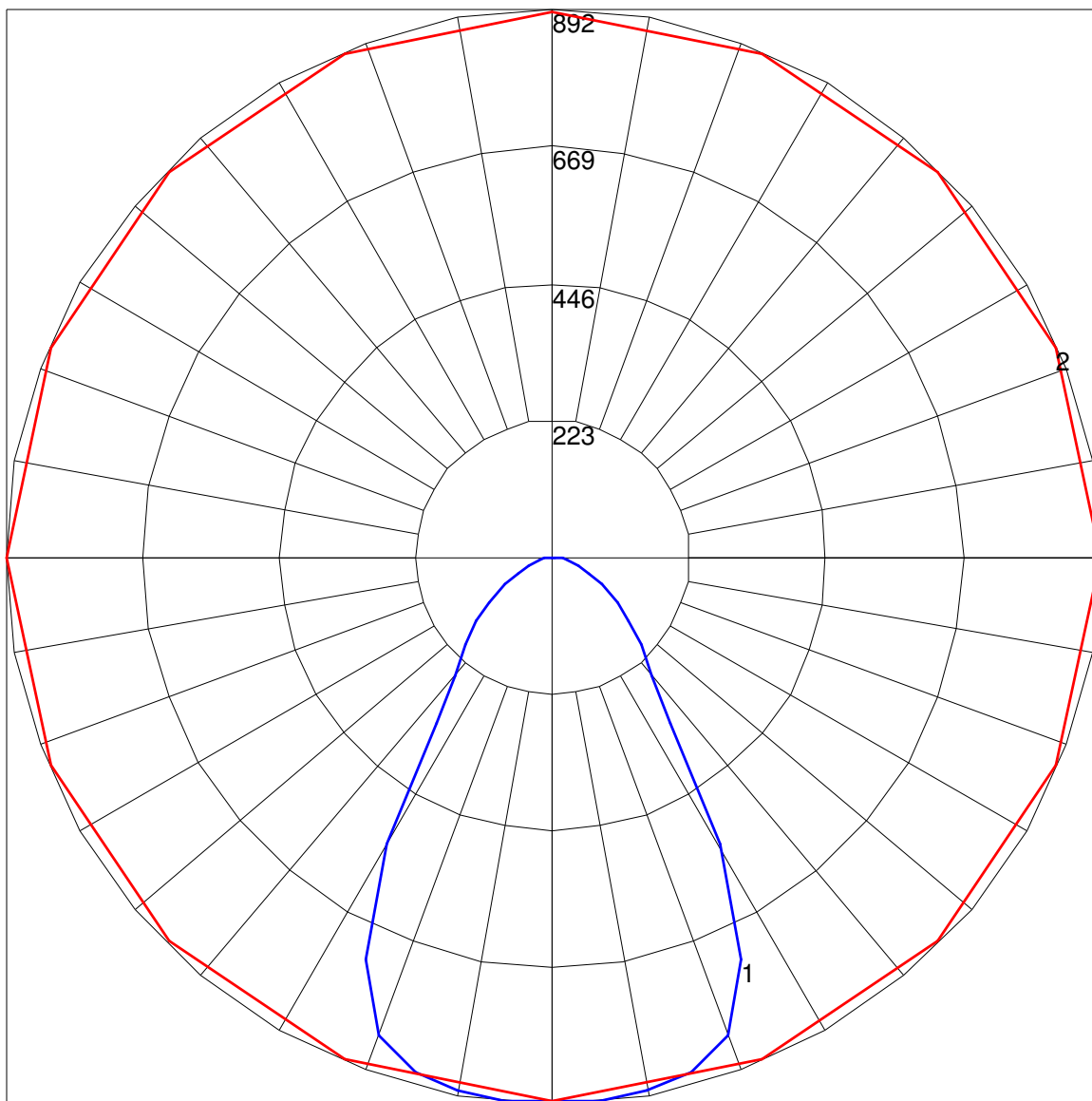
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 64 | 64 | 64 | 64 | 62 | 62 | 62 | 62 | 60 | 60 | 60 | 57 | 57 | 57 | 55 | 55 | 55 | 54 |
| 1 | 60 | 58 | 56 | 55 | 59 | 57 | 55 | 54 | 55 | 53 | 52 | 53 | 52 | 51 | 51 | 50 | 49 | 48 |
| 2 | 56 | 53 | 50 | 47 | 55 | 52 | 49 | 47 | 50 | 48 | 46 | 48 | 46 | 45 | 47 | 45 | 44 | 43 |
| 3 | 52 | 48 | 44 | 42 | 51 | 47 | 44 | 41 | 46 | 43 | 41 | 44 | 42 | 40 | 43 | 41 | 39 | 38 |
| 4 | 49 | 44 | 40 | 37 | 48 | 43 | 40 | 37 | 42 | 39 | 36 | 41 | 38 | 36 | 40 | 37 | 35 | 35 |
| 5 | 46 | 40 | 36 | 33 | 45 | 40 | 36 | 33 | 38 | 35 | 33 | 37 | 35 | 33 | 37 | 34 | 32 | 31 |
| 6 | 43 | 37 | 33 | 30 | 42 | 36 | 33 | 30 | 36 | 32 | 30 | 35 | 32 | 30 | 34 | 31 | 29 | 28 |
| 7 | 40 | 34 | 30 | 28 | 39 | 34 | 30 | 27 | 33 | 30 | 27 | 32 | 29 | 27 | 32 | 29 | 27 | 26 |
| 8 | 38 | 32 | 28 | 25 | 37 | 31 | 28 | 25 | 31 | 27 | 25 | 30 | 27 | 25 | 30 | 27 | 25 | 24 |
| 9 | 36 | 30 | 26 | 23 | 35 | 29 | 26 | 23 | 29 | 25 | 23 | 28 | 25 | 23 | 28 | 25 | 23 | 22 |
| 10 | 34 | 28 | 24 | 22 | 33 | 27 | 24 | 22 | 27 | 24 | 21 | 26 | 23 | 21 | 26 | 23 | 21 | 21 |

POLAR GRAPH



Maximum Candela = 891.732 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)