**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : GP6-L740-850-W-XXX-XXX.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] GEN from BALLABS TEST NO. 19520.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 06-NOV-2019
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 6-192 LED 22"ARRAYS EACH ON ALUM HEATSINK 24x27"HIGHBAY
[MORE] LUMINAIRE W/ NO DIFFUSER/OPEN BOTTOM & CENTER DRIVER HOUSING
[LUMCAT] GP6-L740-840-W-DIM-UNV
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Industrial, Manufacturing, Warehouse, High Bay
[_SEARCH_MOUNTING] Cable, Pendant, Suspended
[_SEARCH_CERTIFICATION] DLC

**CHARACTERISTICS**

| | |
|---|---|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 74099 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 131 |
| Total Luminaire Watts | 566 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.30 |
| Spacing Criterion (90-270) | 1.34 |
| Spacing Criterion (Diagonal) | 1.44 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 1.88 ft |
| Luminous Width (90-270) | 2.26 ft |
| Luminous Height | 0.00 ft |

**LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---|---|---|---|
| 45 | 62200 | 64174 | 64845 |
| 55 | 60848 | 63259 | 64621 |
| 65 | 57127 | 59678 | 57331 |
| 75 | 45135 | 43194 | 45027 |
| 85 | 15051 | 16478 | 17031 |

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**CANDELA TABULATION**

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|---|---|---|---|---|---|
| **0** | 24362.724 | 24362.724 | 24362.724 | 24362.724 | 24362.724 |
| **5** | 24242.745 | 24343.728 | 24374.722 | 24328.730 | 24307.734 |
| **10** | 24019.784 | 24129.765 | 24191.754 | 24163.759 | 24128.765 |
| **15** | 23617.855 | 23751.831 | 23836.816 | 23844.815 | 23786.825 |
| **20** | 22998.964 | 23156.936 | 23337.904 | 23327.906 | 23276.915 |
| **25** | 22256.094 | 22384.071 | 22628.029 | 22656.024 | 22586.036 |
| **30** | 21320.258 | 21496.227 | 21705.191 | 21884.159 | 21765.180 |
| **35** | 20202.454 | 20438.413 | 20609.383 | 20865.338 | 20751.358 |
| **40** | 18865.689 | 19203.630 | 19334.607 | 19568.566 | 19524.573 |
| **45** | 17330.958 | 17736.887 | 17880.862 | 17976.845 | 18067.829 |
| **50** | 15625.258 | 16060.181 | 16160.164 | 16293.140 | 16434.116 |
| **55** | 13752.586 | 14157.515 | 14297.491 | 14439.466 | 14605.437 |
| **60** | 11736.940 | 12008.892 | 12311.839 | 12385.826 | 12579.792 |
| **65** | 9513.330 | 9618.312 | 9938.256 | 9643.308 | 9547.324 |
| **70** | 7104.753 | 7070.759 | 7000.771 | 7070.759 | 7266.725 |
| **75** | 4603.192 | 4523.206 | 4405.227 | 4508.209 | 4592.194 |
| **80** | 2223.610 | 2149.623 | 2087.634 | 2263.603 | 2238.607 |
| **85** | 516.909 | 672.882 | 565.901 | 674.882 | 584.897 |
| **90** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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## ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---|---|---|---|
| 0-20 | 9034.31 | N.A. | 12.20 |
| 0-30 | 19424.89 | N.A. | 26.20 |
| 0-40 | 32308.02 | N.A. | 43.60 |
| 0-60 | 58781.15 | N.A. | 79.30 |
| 0-80 | 73169.75 | N.A. | 98.70 |
| 0-90 | 74099.05 | N.A. | 100.00 |
| 10-90 | 71782.99 | N.A. | 96.90 |
| 20-40 | 23273.71 | N.A. | 31.40 |
| 20-50 | 37014.12 | N.A. | 50.00 |
| 40-70 | 36041.66 | N.A. | 48.60 |
| 60-80 | 14388.6 | N.A. | 19.40 |
| 70-80 | 4820.07 | N.A. | 6.50 |
| 80-90 | 929.30 | N.A. | 1.30 |
| 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 | 74099.05 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

## ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---|---|
| 0-10 | 2316.06 |
| 10-20 | 6718.26 |
| 20-30 | 10390.58 |
| 30-40 | 12883.13 |
| 40-50 | 13740.41 |
| 50-60 | 12732.72 |
| 60-70 | 9568.53 |
| 70-80 | 4820.07 |
| 80-90 | 929.30 |
| 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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 94 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 74 | 79 | 75 | 72 | 70 |
| 3 | 90 | 79 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 59 |
| 4 | 82 | 70 | 61 | 54 | 80 | 69 | 61 | 54 | 66 | 59 | 53 | 64 | 58 | 53 | 62 | 56 | 52 | 50 |
| 5 | 75 | 62 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 40 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 40 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 37 | 30 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 24 |

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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 | 26.7 | 28.4 | 27.1 | 28.7 | 29.0 | 27.0 | 28.6 | 27.3 | 28.9 | 29.2 |
| | 3H | 28.4 | 29.9 | 28.8 | 30.3 | 30.6 | 28.6 | 30.1 | 29.0 | 30.4 | 30.8 |
| | 4H | 29.0 | 30.4 | 29.4 | 30.7 | 31.1 | 29.1 | 30.5 | 29.5 | 30.9 | 31.3 |
| | 6H | 29.3 | 30.6 | 29.7 | 31.0 | 31.4 | 29.4 | 30.7 | 29.8 | 31.1 | 31.5 |
| | 8H | 29.4 | 30.6 | 29.8 | 31.0 | 31.4 | 29.5 | 30.7 | 29.9 | 31.1 | 31.5 |
| | 12H | 29.4 | 30.6 | 29.8 | 31.0 | 31.4 | 29.5 | 30.7 | 30.0 | 31.1 | 31.5 |
| 4H | 2H | 27.4 | 28.8 | 27.8 | 29.2 | 29.5 | 27.6 | 29.0 | 28.0 | 29.3 | 29.7 |
| | 3H | 29.3 | 30.5 | 29.7 | 30.9 | 31.3 | 29.4 | 30.6 | 29.8 | 31.0 | 31.4 |
| | 4H | 29.9 | 31.0 | 30.4 | 31.4 | 31.9 | 30.0 | 31.1 | 30.5 | 31.5 | 31.9 |
| | 6H | 30.3 | 31.3 | 30.8 | 31.7 | 32.2 | 30.4 | 31.4 | 30.9 | 31.8 | 32.3 |
| | 8H | 30.4 | 31.3 | 30.9 | 31.7 | 32.2 | 30.5 | 31.4 | 31.0 | 31.8 | 32.3 |
| | 12H | 30.5 | 31.2 | 31.0 | 31.7 | 32.2 | 30.6 | 31.3 | 31.1 | 31.8 | 32.3 |
| 8H | 4H | 30.2 | 31.0 | 30.6 | 31.5 | 31.9 | 30.3 | 31.1 | 30.7 | 31.6 | 32.0 |
| | 6H | 30.6 | 31.4 | 31.1 | 31.8 | 32.3 | 30.7 | 31.4 | 31.2 | 31.9 | 32.4 |
| | 8H | 30.8 | 31.4 | 31.3 | 31.9 | 32.4 | 30.9 | 31.5 | 31.4 | 32.0 | 32.5 |
| | 12H | 30.8 | 31.4 | 31.3 | 31.9 | 32.4 | 30.9 | 31.5 | 31.4 | 32.0 | 32.6 |
| 12H | 4H | 30.2 | 31.0 | 30.7 | 31.4 | 31.9 | 30.3 | 31.0 | 30.8 | 31.5 | 32.0 |
| | 6H | 30.7 | 31.3 | 31.2 | 31.8 | 32.3 | 30.8 | 31.4 | 31.3 | 31.9 | 32.4 |
| | 8H | 30.8 | 31.4 | 31.3 | 31.9 | 32.4 | 30.9 | 31.5 | 31.4 | 32.0 | 32.5 |

Maximum UGR = 32.6

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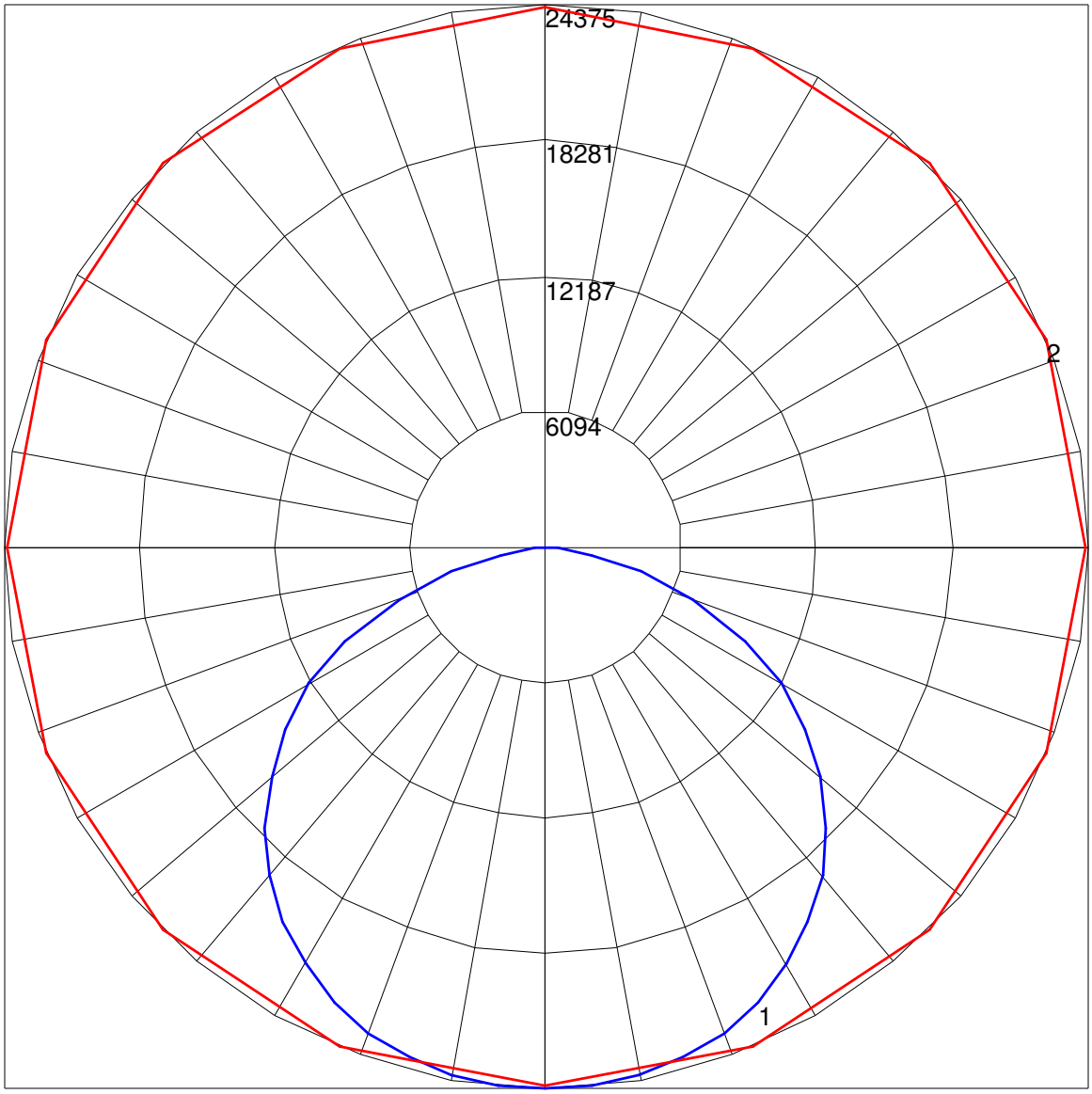
**POLAR GRAPH**




Maximum Candela = 24374.722  Located At Horizontal Angle = 45, Vertical Angle = 5
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)