



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PS-L20-9DW-DIM-UNV-LM-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20374.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 30-APR-2018

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V18 LED 6" TALL HEATSINK 6" SQ FORMED HOUSING DOWNLIGHT

[MORE] ACRYLIC MED TIR OPTIC & 6" CAST WHITE FLUSH SHALLOW TRIM

[MORE] w/SOLITE LENS ADVANCE # XI050C140V054DSM5 @ 1125mA

[LUMCAT] 6PS-L21-9DW-DIM-UNV-LM-OF-WH

[LAMPCAT] BXRE-35E4000

[_SEARCH_SOURCE TYPE] 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 | 2030 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 54 |
| Total Luminaire Watts | 37.7 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.64 |
| Spacing Criterion (90-270) | 0.64 |
| Spacing Criterion (Diagonal) | 0.60 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 0.50 ft |
| Luminous Width (90-270) | 0.50 ft |
| Luminous Height | 0.83 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2677 | 2273 | 2840 |
| 55 | 1318 | 1134 | 1318 |
| 65 | 645 | 543 | 645 |
| 75 | 273 | 210 | 273 |
| 85 | 35 | 34 | 35 |

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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 | 4173.350 | 4173.350 | 4173.350 | 4173.350 | 4173.350 |
| 5 | 4089.750 | 4063.625 | 4062.200 | 4050.800 | 4035.600 |
| 10 | 3677.450 | 3667.950 | 3663.675 | 3676.975 | 3667.475 |
| 15 | 2868.525 | 2875.175 | 2893.225 | 2899.875 | 2910.325 |
| 20 | 1809.750 | 1813.075 | 1824.000 | 1843.950 | 1796.450 |
| 25 | 936.225 | 961.400 | 981.350 | 981.825 | 978.975 |
| 30 | 490.200 | 487.825 | 502.075 | 516.800 | 537.700 |
| 35 | 279.775 | 288.800 | 294.975 | 302.100 | 295.925 |
| 40 | 171.950 | 175.750 | 181.925 | 186.200 | 183.825 |
| 45 | 117.325 | 120.175 | 125.400 | 125.875 | 124.450 |
| 50 | 85.500 | 85.500 | 92.150 | 88.350 | 85.500 |
| 55 | 59.375 | 59.375 | 66.025 | 63.175 | 59.375 |
| 60 | 39.900 | 40.850 | 46.550 | 43.700 | 40.850 |
| 65 | 28.975 | 28.975 | 32.300 | 29.925 | 28.975 |
| 70 | 18.525 | 19.000 | 20.900 | 19.950 | 19.475 |
| 75 | 11.875 | 11.875 | 12.350 | 11.875 | 11.875 |
| 80 | 6.650 | 6.650 | 8.075 | 6.650 | 6.650 |
| 85 | 1.425 | 1.425 | 1.900 | 0.475 | 1.425 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1152.28 | N.A. | 56.80 |
| 0-30 | 1631.82 | N.A. | 80.40 |
| 0-40 | 1828.48 | N.A. | 90.10 |
| 0-60 | 1984.13 | N.A. | 97.70 |
| 0-80 | 2027.82 | N.A. | 99.90 |
| 0-90 | 2030.44 | N.A. | 100.00 |
| 10-90 | 1655.48 | N.A. | 81.50 |
| 20-40 | 676.20 | N.A. | 33.30 |
| 20-50 | 775.02 | N.A. | 38.20 |
| 40-70 | 185.97 | N.A. | 9.20 |
| 60-80 | 43.70 | N.A. | 2.20 |
| 70-80 | 13.37 | N.A. | 0.70 |
| 80-90 | 2.62 | N.A. | 0.10 |
| 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 | 2030.44 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 374.95 |
| 10-20 | 777.32 |
| 20-30 | 479.54 |
| 30-40 | 196.66 |
| 40-50 | 98.83 |
| 50-60 | 56.82 |
| 60-70 | 30.32 |
| 70-80 | 13.37 |
| 80-90 | 2.62 |
| 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 |

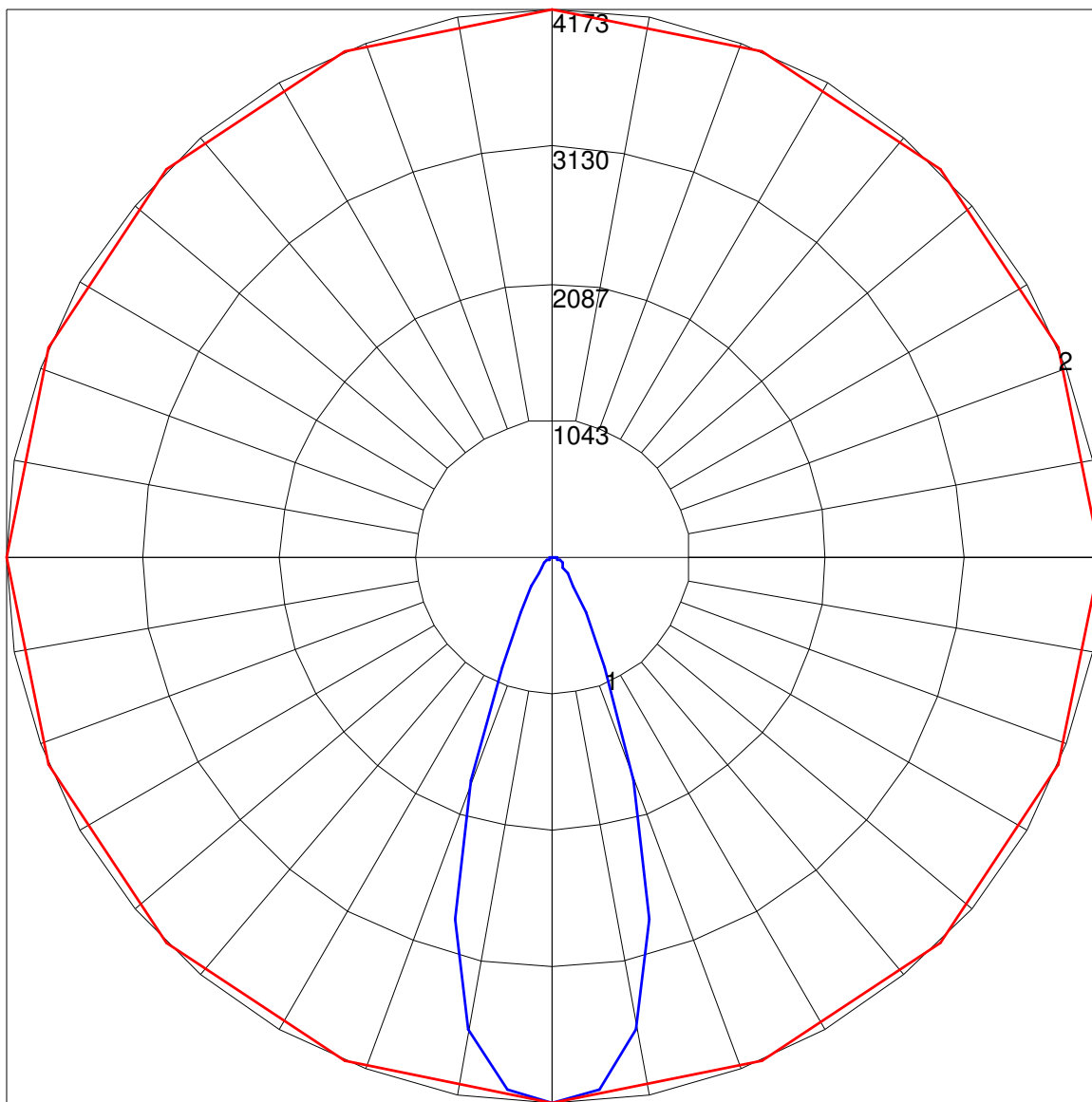
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 |
| 2 | 109 | 104 | 100 | 97 | 106 | 102 | 99 | 96 | 99 | 96 | 94 | 96 | 94 | 92 | 93 | 92 | 90 | 88 |
| 3 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 89 | 94 | 90 | 87 | 91 | 88 | 86 | 89 | 87 | 85 | 83 |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 83 | 89 | 85 | 82 | 87 | 83 | 81 | 85 | 82 | 80 | 78 |
| 5 | 95 | 87 | 82 | 78 | 93 | 86 | 81 | 78 | 85 | 80 | 77 | 83 | 79 | 76 | 81 | 78 | 76 | 74 |
| 6 | 91 | 83 | 77 | 73 | 89 | 82 | 77 | 73 | 81 | 76 | 73 | 79 | 75 | 72 | 78 | 74 | 72 | 70 |
| 7 | 87 | 79 | 73 | 70 | 86 | 78 | 73 | 69 | 77 | 72 | 69 | 76 | 72 | 69 | 75 | 71 | 68 | 67 |
| 8 | 84 | 75 | 70 | 66 | 83 | 75 | 69 | 66 | 74 | 69 | 66 | 73 | 68 | 65 | 72 | 68 | 65 | 64 |
| 9 | 80 | 72 | 67 | 63 | 79 | 71 | 66 | 63 | 70 | 66 | 63 | 70 | 65 | 62 | 69 | 65 | 62 | 61 |
| 10 | 78 | 69 | 64 | 60 | 77 | 68 | 63 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 66 | 62 | 60 | 59 |

POLAR GRAPH



Maximum Candela = 4173.35 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.)