

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL716LEDHTLOWT22120-277V_P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2019.0.0 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Thu Aug 01 11:33:03 2019

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT] OUTDOOR LUMINAIRE

[OTHER] FLOOD

[LUMINAIRE] BL716LEDHTLOWT22120-277V_P

[LAMP] LED 0.3W White 2323 package (65mA)

[LAMPCAT] SPMWHT221MD5WAT0S0

[OTHER]

IESNA:LM-63-2002

[TESTLAB] CSA Group

[OTHER] Luminous shape: Rectangle

[OTHER] Luminous dimensions (feet)

[OTHER] 0 - 180 Axis: 4.2

[OTHER] 90 - 270 Axis: 0.6

[OTHER] Height: 0.1

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2249 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 112 |
| Total Luminaire Watts | 20 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.44 |
| Spacing Criterion (90-270) | 1.44 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 0.53 ft |
| Luminous Width (90-270) | 0.61 ft |
| Luminous Height | 0.24 ft |

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LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 19334 | 17583 | 20200 |
| 55 | 9686 | 8607 | 10239 |
| 65 | 3734 | 3227 | 4005 |
| 75 | 1223 | 1019 | 1338 |
| 85 | 187 | 147 | 211 |

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CANDELA TABULATION

| | <u>0</u> |
|-----|----------|
| 0 | 958.389 |
| 5 | 927.638 |
| 10 | 952.768 |
| 15 | 987.522 |
| 20 | 1018.587 |
| 25 | 1026.539 |
| 30 | 994.277 |
| 35 | 915.100 |
| 40 | 773.988 |
| 45 | 594.421 |
| 50 | 422.083 |
| 55 | 273.990 |
| 60 | 164.558 |
| 65 | 93.247 |
| 70 | 50.012 |
| 75 | 25.551 |
| 80 | 11.837 |
| 85 | 3.021 |
| 90 | 0.011 |
| 95 | 0.000 |
| 100 | 0.000 |
| 105 | 0.000 |
| 110 | 0.000 |
| 115 | 0.000 |
| 120 | 0.000 |
| 125 | 0.000 |
| 130 | 0.000 |
| 135 | 0.000 |
| 140 | 0.000 |
| 145 | 0.000 |
| 150 | 0.000 |
| 155 | 0.000 |
| 160 | 0.000 |
| 165 | 0.000 |
| 170 | 0.000 |
| 175 | 0.000 |
| 180 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 370.24 | N.A. | 16.50 |
| 0-30 | 840.48 | N.A. | 37.40 |
| 0-40 | 1403.46 | N.A. | 62.40 |
| 0-60 | 2114.95 | N.A. | 94.10 |
| 0-80 | 2243.65 | N.A. | 99.80 |
| 0-90 | 2248.52 | N.A. | 100.00 |
| 10-90 | 2158.7 | N.A. | 96.00 |
| 20-40 | 1033.21 | N.A. | 46.00 |
| 20-50 | 1491.98 | N.A. | 66.40 |
| 40-70 | 810.44 | N.A. | 36.00 |
| 60-80 | 128.70 | N.A. | 5.70 |
| 70-80 | 29.75 | N.A. | 1.30 |
| 80-90 | 4.87 | N.A. | 0.20 |
| 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 | 2248.52 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 89.81 |
| 10-20 | 280.43 |
| 20-30 | 470.23 |
| 30-40 | 562.98 |
| 40-50 | 458.77 |
| 50-60 | 252.72 |
| 60-70 | 98.95 |
| 70-80 | 29.75 |
| 80-90 | 4.87 |
| 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 | 111 | 108 | 104 | 101 | 109 | 105 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 89 |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 92 | 87 | 84 | 88 | 85 | 82 | 86 | 83 | 80 | 78 |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 |
| 4 | 89 | 79 | 71 | 65 | 87 | 77 | 70 | 65 | 75 | 69 | 64 | 73 | 68 | 63 | 71 | 66 | 63 | 61 |
| 5 | 82 | 71 | 63 | 58 | 80 | 70 | 63 | 57 | 68 | 62 | 57 | 66 | 61 | 56 | 64 | 60 | 56 | 54 |
| 6 | 76 | 65 | 57 | 51 | 75 | 64 | 56 | 51 | 62 | 56 | 51 | 61 | 55 | 50 | 59 | 54 | 50 | 48 |
| 7 | 71 | 59 | 51 | 46 | 70 | 58 | 51 | 46 | 57 | 50 | 45 | 56 | 50 | 45 | 54 | 49 | 45 | 43 |
| 8 | 66 | 54 | 47 | 41 | 65 | 54 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 40 | 39 |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 |
| 10 | 58 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 37 | 34 | 32 |

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UGR TABLE - CORRECTED

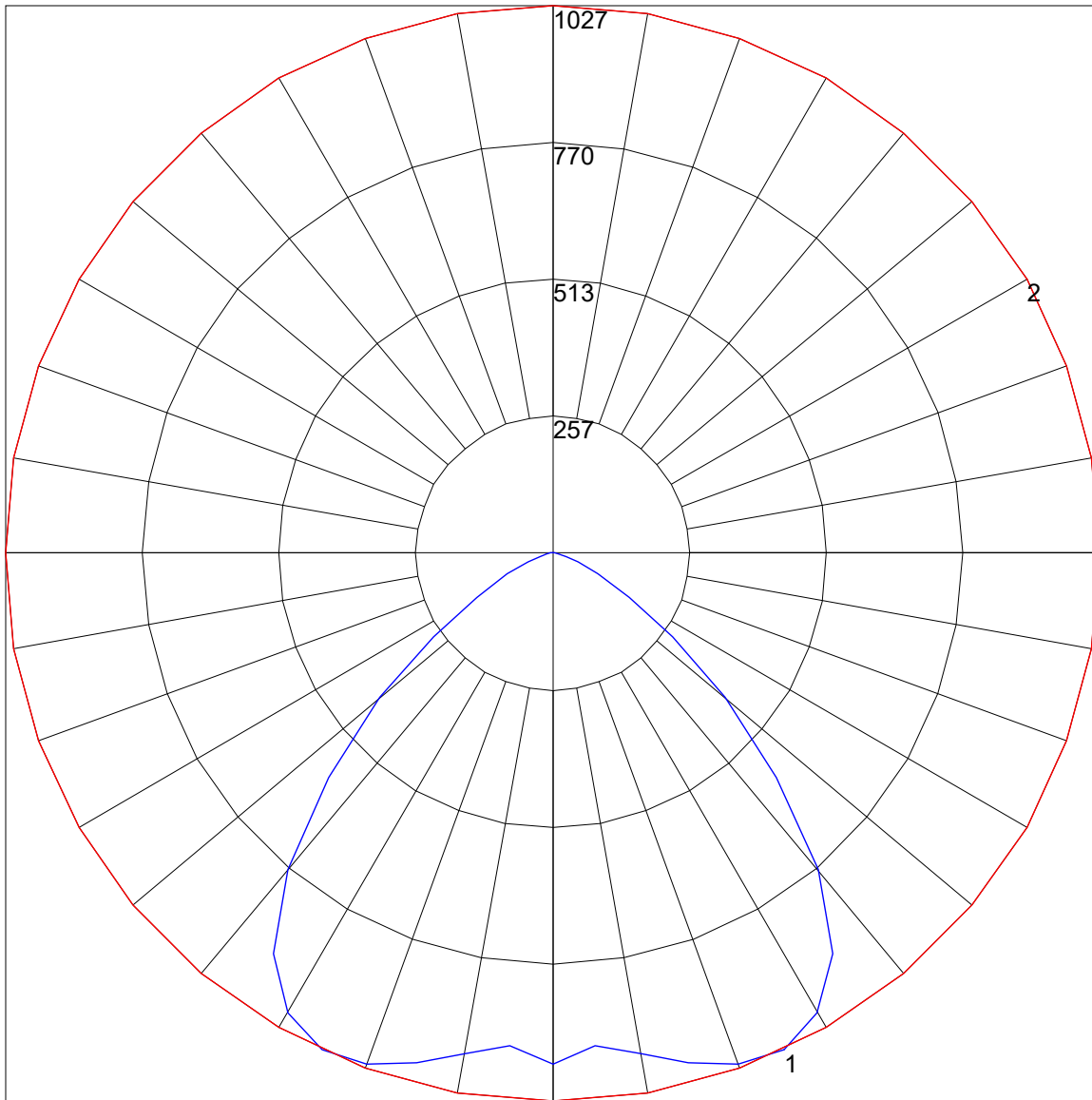
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 17.6 | 19.0 | 17.9 | 19.3 | 19.6 | 17.4 | 18.8 | 17.8 | 19.1 | 19.5 |
| | 3H | 17.9 | 19.1 | 18.2 | 19.4 | 19.8 | 17.7 | 19.0 | 18.1 | 19.3 | 19.7 |
| | 4H | 17.9 | 19.0 | 18.3 | 19.4 | 19.8 | 17.7 | 18.9 | 18.2 | 19.2 | 19.6 |
| | 6H | 17.9 | 18.9 | 18.3 | 19.3 | 19.7 | 17.7 | 18.8 | 18.1 | 19.1 | 19.5 |
| | 8H | 17.8 | 18.8 | 18.2 | 19.2 | 19.6 | 17.7 | 18.7 | 18.1 | 19.1 | 19.5 |
| | 12H | 17.8 | 18.7 | 18.2 | 19.1 | 19.5 | 17.6 | 18.6 | 18.1 | 19.0 | 19.4 |
| 4H | 2H | 17.6 | 18.8 | 18.0 | 19.1 | 19.5 | 17.5 | 18.6 | 17.9 | 19.0 | 19.4 |
| | 3H | 18.0 | 18.9 | 18.4 | 19.3 | 19.7 | 17.9 | 18.8 | 18.3 | 19.2 | 19.6 |
| | 4H | 18.0 | 18.8 | 18.4 | 19.3 | 19.7 | 17.9 | 18.7 | 18.3 | 19.1 | 19.6 |
| | 6H | 18.0 | 18.7 | 18.5 | 19.2 | 19.6 | 17.9 | 18.6 | 18.3 | 19.0 | 19.5 |
| | 8H | 18.0 | 18.6 | 18.4 | 19.1 | 19.5 | 17.8 | 18.5 | 18.3 | 18.9 | 19.4 |
| | 12H | 17.9 | 18.5 | 18.4 | 19.0 | 19.5 | 17.8 | 18.4 | 18.3 | 18.9 | 19.3 |
| 8H | 4H | 17.9 | 18.6 | 18.4 | 19.1 | 19.5 | 17.8 | 18.5 | 18.3 | 18.9 | 19.4 |
| | 6H | 17.9 | 18.5 | 18.4 | 19.0 | 19.4 | 17.8 | 18.3 | 18.3 | 18.8 | 19.3 |
| | 8H | 17.9 | 18.4 | 18.4 | 18.9 | 19.4 | 17.8 | 18.2 | 18.3 | 18.8 | 19.3 |
| | 12H | 17.8 | 18.3 | 18.3 | 18.8 | 19.3 | 17.7 | 18.2 | 18.2 | 18.6 | 19.2 |
| 12H | 4H | 17.9 | 18.5 | 18.4 | 19.0 | 19.4 | 17.8 | 18.4 | 18.3 | 18.9 | 19.3 |
| | 6H | 17.9 | 18.4 | 18.4 | 18.8 | 19.4 | 17.8 | 18.2 | 18.3 | 18.7 | 19.3 |
| | 8H | 17.8 | 18.3 | 18.3 | 18.8 | 19.3 | 17.7 | 18.2 | 18.2 | 18.6 | 19.2 |

Maximum UGR = 19.8

POLAR GRAPH



Maximum Candela = 1026.539 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)