

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS400LEDHTMOWT50120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2024.2.0 see: www.ltioptics.com/ies

[ISSUE DATE]

[TEST DATE] Tue Aug 26 10:53:08 2025

[TEST] 1

[MANUFAC]

[LUMCAT]

[LUMINAIRE] BS400LEDHTMOWT50120-277V_S

[LAMP] LED 6.09W 12" Fortimo 24 LED linear module (130mA)

[LAMPCAT] LED Strip 1ft 1100lm 840 NA LV4

[OTHER]

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 6081 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 135 |
| Total Luminaire Watts | 45.036 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.80 |
| Spacing Criterion (90-270) | 1.80 |
| Spacing Criterion (Diagonal) | 1.94 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 1.45 ft |
| Luminous Width (90-270) | 1.45 ft |
| Luminous Height | 0.27 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 6313 | 5927 | 6313 |
| 55 | 7235 | 6656 | 7235 |
| 65 | 8199 | 7332 | 8199 |
| 75 | 8949 | 7649 | 8949 |
| 85 | 9894 | 7718 | 9894 |

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CANDELA TABULATION

| | <u>0</u> |
|-----|----------|
| 0 | 860.44 |
| 5 | 892.80 |
| 10 | 910.49 |
| 15 | 926.55 |
| 20 | 963.59 |
| 25 | 983.58 |
| 30 | 1006.97 |
| 35 | 1027.17 |
| 40 | 1037.83 |
| 45 | 1040.76 |
| 50 | 1045.44 |
| 55 | 1032.64 |
| 60 | 1006.87 |
| 65 | 953.10 |
| 70 | 875.84 |
| 75 | 771.75 |
| 80 | 649.45 |
| 85 | 530.46 |
| 90 | 412.61 |
| 95 | 309.25 |
| 100 | 218.37 |
| 105 | 146.76 |
| 110 | 91.47 |
| 115 | 51.51 |
| 120 | 25.95 |
| 125 | 11.80 |
| 130 | 4.51 |
| 135 | 2.17 |
| 140 | 1.79 |
| 145 | 1.44 |
| 150 | 1.01 |
| 155 | 0.64 |
| 160 | 0.47 |
| 165 | 0.17 |
| 170 | 0.05 |
| 175 | 0.00 |
| 180 | 0.00 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 350.21 | N.A. | 5.80 |
| 0-30 | 806.34 | N.A. | 13.30 |
| 0-40 | 1450.41 | N.A. | 23.90 |
| 0-60 | 3180.1 | N.A. | 52.30 |
| 0-80 | 4930.6 | N.A. | 81.10 |
| 0-90 | 5509.43 | N.A. | 90.60 |
| 10-90 | 5423.96 | N.A. | 89.20 |
| 20-40 | 1100.2 | N.A. | 18.10 |
| 20-50 | 1906.61 | N.A. | 31.40 |
| 40-70 | 2669.26 | N.A. | 43.90 |
| 60-80 | 1750.5 | N.A. | 28.80 |
| 70-80 | 810.93 | N.A. | 13.30 |
| 80-90 | 578.83 | N.A. | 9.50 |
| 90-110 | 500.99 | N.A. | 8.20 |
| 90-120 | 556.02 | N.A. | 9.10 |
| 90-130 | 568.29 | N.A. | 9.30 |
| 90-150 | 571.28 | N.A. | 9.40 |
| 90-180 | 571.67 | N.A. | 9.40 |
| 110-180 | 70.68 | N.A. | 1.20 |
| 0-180 | 6081.1 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 85.47 |
| 10-20 | 264.75 |
| 20-30 | 456.13 |
| 30-40 | 644.07 |
| 40-50 | 806.42 |
| 50-60 | 923.27 |
| 60-70 | 939.57 |
| 70-80 | 810.93 |
| 80-90 | 578.83 |
| 90-100 | 341.02 |
| 100-110 | 159.97 |
| 110-120 | 55.03 |
| 120-130 | 12.27 |
| 130-140 | 2.08 |
| 140-150 | 0.90 |
| 150-160 | 0.33 |
| 160-170 | 0.07 |
| 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 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 99 | 99 | 99 | 93 | 93 | 93 | 91 |
| 1 | 102 | 95 | 89 | 83 | 98 | 92 | 86 | 81 | 85 | 81 | 77 | 80 | 76 | 73 | 75 | 72 | 69 | 66 |
| 2 | 90 | 80 | 71 | 63 | 86 | 77 | 69 | 62 | 71 | 65 | 59 | 67 | 61 | 56 | 62 | 57 | 53 | 50 |
| 3 | 81 | 68 | 58 | 50 | 77 | 66 | 56 | 49 | 61 | 53 | 47 | 57 | 50 | 45 | 53 | 47 | 43 | 40 |
| 4 | 73 | 59 | 49 | 41 | 70 | 57 | 47 | 40 | 53 | 45 | 38 | 49 | 42 | 37 | 46 | 40 | 35 | 32 |
| 5 | 67 | 52 | 41 | 34 | 64 | 50 | 40 | 33 | 47 | 38 | 32 | 44 | 36 | 31 | 41 | 34 | 29 | 27 |
| 6 | 61 | 46 | 36 | 29 | 58 | 44 | 35 | 28 | 42 | 33 | 27 | 39 | 32 | 26 | 36 | 30 | 25 | 22 |
| 7 | 56 | 41 | 31 | 25 | 54 | 40 | 31 | 24 | 37 | 29 | 23 | 35 | 28 | 22 | 33 | 26 | 22 | 19 |
| 8 | 52 | 37 | 28 | 21 | 50 | 36 | 27 | 21 | 34 | 26 | 20 | 32 | 25 | 20 | 30 | 24 | 19 | 17 |
| 9 | 48 | 34 | 25 | 19 | 46 | 33 | 24 | 19 | 31 | 23 | 18 | 29 | 22 | 17 | 27 | 21 | 17 | 15 |
| 10 | 45 | 31 | 23 | 17 | 43 | 30 | 22 | 17 | 28 | 21 | 16 | 27 | 20 | 16 | 25 | 19 | 15 | 13 |

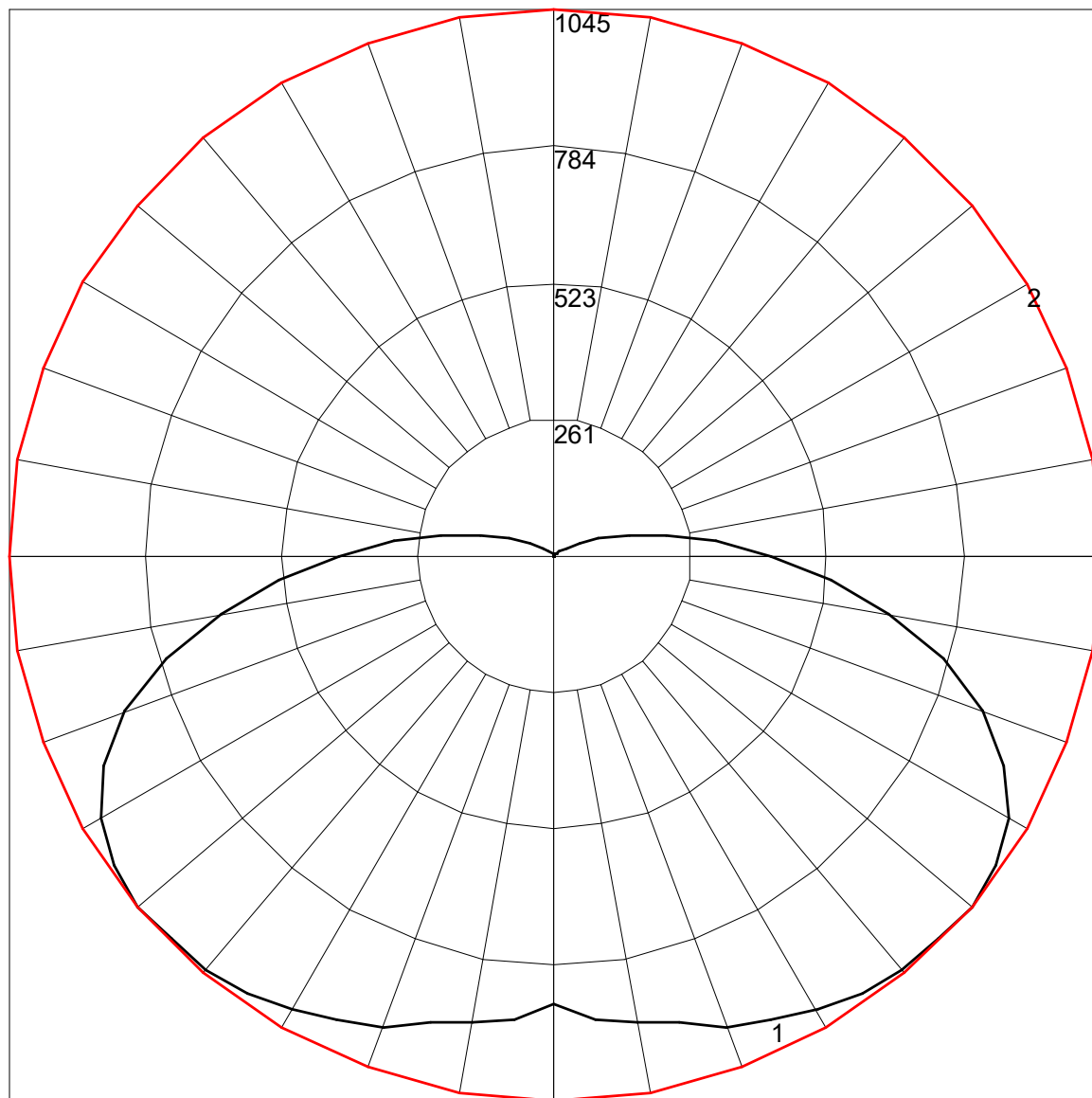
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UGR TABLE - CORRECTED

| | | | | | | | | | | | |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| 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 | 18.5 | 20.1 | 19.0 | 20.6 | 21.2 | 18.5 | 20.1 | 19.0 | 20.6 | 21.2 |
| | 3H | 21.2 | 22.8 | 21.8 | 23.3 | 23.8 | 21.2 | 22.8 | 21.8 | 23.3 | 23.8 |
| | 4H | 22.5 | 24.0 | 23.0 | 24.5 | 25.0 | 22.5 | 24.0 | 23.0 | 24.5 | 25.0 |
| | 6H | 23.6 | 25.0 | 24.2 | 25.5 | 26.1 | 23.6 | 25.0 | 24.2 | 25.5 | 26.1 |
| | 8H | 24.1 | 25.5 | 24.7 | 26.0 | 26.6 | 24.1 | 25.5 | 24.7 | 26.0 | 26.6 |
| | 12H | 24.6 | 25.9 | 25.2 | 26.5 | 27.1 | 24.6 | 25.9 | 25.2 | 26.5 | 27.1 |
| 4H | 2H | 19.3 | 20.8 | 19.9 | 21.3 | 21.9 | 19.3 | 20.8 | 19.9 | 21.3 | 21.9 |
| | 3H | 22.3 | 23.6 | 22.8 | 24.1 | 24.7 | 22.3 | 23.6 | 22.8 | 24.1 | 24.7 |
| | 4H | 23.7 | 24.9 | 24.2 | 25.4 | 26.1 | 23.7 | 24.9 | 24.2 | 25.4 | 26.1 |
| | 6H | 25.0 | 26.0 | 25.5 | 26.6 | 27.3 | 25.0 | 26.0 | 25.5 | 26.6 | 27.3 |
| | 8H | 25.6 | 26.6 | 26.2 | 27.2 | 27.8 | 25.6 | 26.6 | 26.2 | 27.2 | 27.8 |
| | 12H | 26.2 | 27.1 | 26.8 | 27.7 | 28.4 | 26.2 | 27.1 | 26.8 | 27.7 | 28.4 |
| 8H | 4H | 24.2 | 25.2 | 24.8 | 25.8 | 26.4 | 24.2 | 25.2 | 24.8 | 25.8 | 26.4 |
| | 6H | 25.7 | 26.5 | 26.3 | 27.2 | 27.8 | 25.7 | 26.5 | 26.3 | 27.2 | 27.8 |
| | 8H | 26.4 | 27.2 | 27.0 | 27.8 | 28.5 | 26.4 | 27.2 | 27.0 | 27.8 | 28.5 |
| | 12H | 27.2 | 27.9 | 27.8 | 28.5 | 29.2 | 27.2 | 27.9 | 27.8 | 28.5 | 29.2 |
| 12H | 4H | 24.3 | 25.2 | 24.9 | 25.8 | 26.5 | 24.3 | 25.2 | 24.9 | 25.8 | 26.5 |
| | 6H | 25.9 | 26.6 | 26.5 | 27.2 | 28.0 | 25.9 | 26.6 | 26.5 | 27.2 | 28.0 |
| | 8H | 26.7 | 27.4 | 27.3 | 28.0 | 28.7 | 26.7 | 27.4 | 27.3 | 28.0 | 28.7 |

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 1045.44 Located At Horizontal Angle = 0, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)