

DESCRIPTION:

System COSMO® is a series of vapor-tight luminaires for linear fluorescent lamps (T-5 & T-8). The unique esthetics of the housing and diffuser allow installation of COSMO in typical industrial and also more challenging applications such as: offices and interior hallways. COSMO can be installed in both outdoor and indoor locations.

APPLICATION:

System COSMO luminaires are designed to work in damp and heavily soiled areas such as: garages, parking areas, boiler rooms, kitchens, car-washes, production rooms, etc. In addition COSMO's unique esthetics also allow use in modern offices, shops and restaurants.

SPECIFICATIONS:

Construction: Housing, Diffuser, Latches, Internal Ballast & Louver Mtg. Brackets, Latches all Precision Injection Molded of UV inhibited Polycarbonate Resin [Bayer Makrolon™] with continuous/seamless robotically inserted gasketing

Mounting: Fixture Mtg. Brackets die-formed from Stainless Steel (2 supplied per unit)

Shielding: Parabolic Louvers (where applicable) Die-formed of MIRO-T high purity Specular Aluminium for low brightness, high efficiency and visual comfort.

Electrical: T-5 units Standard with electronic ballasts

Photometrics: Detailed photometric data in .ies format available on CD-ROM or from our web site: www.essystem-usa.com

Typical Catalog Number:

Typical Catalog Number:

CO6 128 ALS LBL - XX = COSMO_6 with clear housing, **Lamps: 128** = 1 x 28W T-5, for 2 lamp change 128 to 228, for HO versions change 128 to 154

Specular aluminium Louver + Blue LED. Direct/indirect light distribution

Options : () No louver; **(ALS)** Specular or **(ALM)** Parabolic Matte Aluminum louver

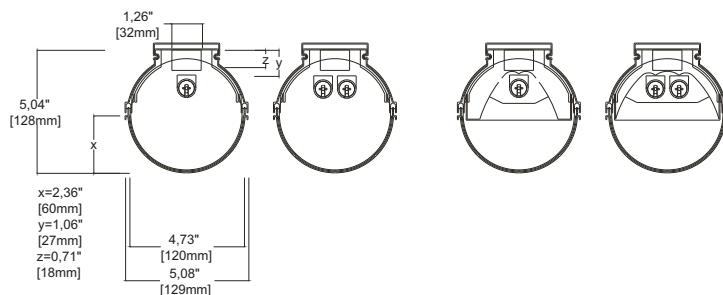
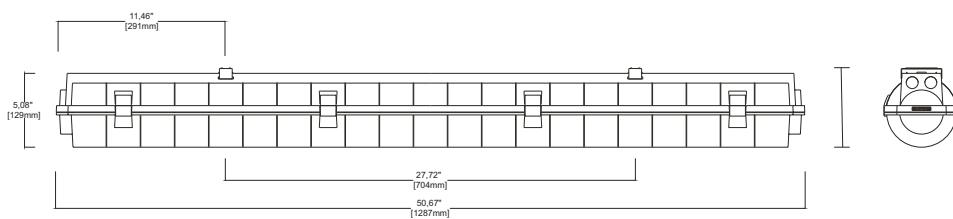
Options : **(LBL)** Blue LED, **(LGR)** Green LED, **(LRD)** Red LED, **(LAR)** Amber LED; **(LWE)** White LED

Options [XX]: Dimming [1-10V: **X1**, Lutron: **XL**], Emergency Battery Pack: **XB**

Type: _____
 Project: _____
 QTY: _____
 Catalog No.: _____
 Lamp: _____

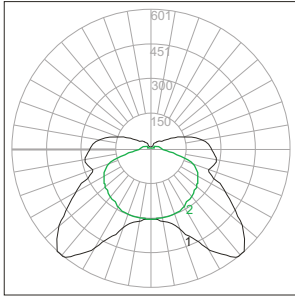


COSMO_6



PHOTOMETRICS

CO6_1xT5 28W



UL listed under UL File
No. E307841-1
Lumen Multiplier 28W/54W = 0,58

Coefficients Of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

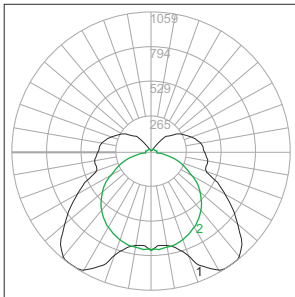
| RC | 80 | | | 70 | | | 50 | | | 30 | | | 10 | | | 0 | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | |
| 0 | 99 | 99 | 99 | 99 | 95 | 95 | 95 | 95 | 87 | 87 | 87 | 87 | 80 | 80 | 80 | 74 | 74 | 74 | 71 |
| 1 | 87 | 82 | 77 | 73 | 83 | 79 | 74 | 71 | 72 | 69 | 66 | 66 | 63 | 61 | 60 | 58 | 56 | 53 | 53 |
| 2 | 78 | 70 | 63 | 57 | 74 | 67 | 61 | 55 | 61 | 56 | 52 | 56 | 52 | 48 | 51 | 48 | 45 | 42 | 42 |
| 3 | 71 | 60 | 52 | 46 | 67 | 58 | 50 | 44 | 53 | 47 | 42 | 48 | 43 | 39 | 44 | 40 | 36 | 34 | 34 |
| 4 | 64 | 52 | 44 | 38 | 61 | 50 | 42 | 36 | 46 | 39 | 34 | 42 | 37 | 32 | 38 | 34 | 30 | 28 | 28 |
| 5 | 58 | 46 | 38 | 31 | 55 | 44 | 36 | 31 | 41 | 34 | 29 | 37 | 31 | 27 | 34 | 29 | 25 | 23 | 23 |
| 6 | 53 | 41 | 33 | 27 | 51 | 39 | 32 | 26 | 36 | 29 | 24 | 33 | 27 | 23 | 30 | 25 | 22 | 19 | 19 |
| 7 | 49 | 37 | 29 | 23 | 47 | 35 | 28 | 22 | 32 | 26 | 21 | 30 | 24 | 20 | 27 | 22 | 19 | 17 | 17 |
| 8 | 45 | 33 | 25 | 20 | 43 | 32 | 25 | 19 | 29 | 23 | 18 | 27 | 21 | 17 | 25 | 20 | 16 | 14 | 14 |
| 9 | 42 | 30 | 23 | 18 | 40 | 29 | 22 | 17 | 27 | 21 | 16 | 25 | 19 | 15 | 23 | 18 | 14 | 13 | 13 |
| 10 | 39 | 27 | 20 | 16 | 37 | 26 | 20 | 15 | 24 | 19 | 14 | 23 | 17 | 14 | 21 | 16 | 13 | 11 | 11 |

Zonal Lumen Summary

| Zone | Lumens | %Lamp | %Fixt |
|--------|---------|-------|--------|
| 0-30 | 279.30 | 10.70 | 12.40 |
| 0-40 | 531.42 | 20.40 | 23.70 |
| 0-60 | 1198.14 | 46.10 | 53.40 |
| 0-90 | 1840.22 | 70.80 | 81.90 |
| 90-120 | 321.64 | 12.40 | 14.30 |
| 90-130 | 360.94 | 13.90 | 16.10 |
| 90-150 | 399.56 | 15.40 | 17.80 |
| 90-180 | 405.50 | 15.60 | 18.10 |
| 0-180 | 2245.72 | 86.40 | 100.00 |

Total Luminaire Efficiency = 86%

CO6_2xT5 28W



UL listed under UL File
No. E307841-1
Lumen Multiplier 28W/54W = 0,58

Coefficients Of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

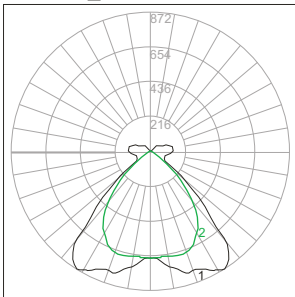
| RC | 80 | | | 70 | | | 50 | | | 30 | | | 10 | | | 0 | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | |
| 0 | 99 | 99 | 99 | 99 | 94 | 94 | 94 | 94 | 87 | 87 | 87 | 79 | 79 | 79 | 73 | 73 | 73 | 70 | 70 |
| 1 | 88 | 83 | 78 | 74 | 84 | 79 | 75 | 72 | 72 | 69 | 66 | 66 | 64 | 61 | 60 | 58 | 56 | 53 | 53 |
| 2 | 79 | 71 | 64 | 59 | 75 | 68 | 62 | 57 | 62 | 57 | 53 | 57 | 53 | 49 | 52 | 48 | 46 | 43 | 43 |
| 3 | 71 | 61 | 54 | 48 | 68 | 59 | 52 | 46 | 54 | 48 | 43 | 49 | 44 | 40 | 45 | 41 | 37 | 35 | 35 |
| 4 | 65 | 54 | 46 | 39 | 61 | 51 | 44 | 38 | 47 | 41 | 36 | 43 | 38 | 34 | 39 | 35 | 31 | 29 | 29 |
| 5 | 59 | 47 | 39 | 33 | 56 | 45 | 38 | 32 | 42 | 35 | 30 | 38 | 33 | 29 | 35 | 30 | 27 | 24 | 24 |
| 6 | 54 | 42 | 34 | 28 | 52 | 41 | 33 | 28 | 37 | 31 | 26 | 34 | 29 | 25 | 31 | 27 | 23 | 21 | 21 |
| 7 | 50 | 38 | 30 | 25 | 48 | 36 | 29 | 24 | 34 | 27 | 23 | 31 | 25 | 21 | 28 | 24 | 20 | 18 | 18 |
| 8 | 46 | 34 | 27 | 22 | 44 | 33 | 26 | 21 | 30 | 24 | 20 | 28 | 23 | 19 | 26 | 21 | 18 | 16 | 16 |
| 9 | 43 | 31 | 24 | 19 | 41 | 30 | 23 | 19 | 28 | 22 | 18 | 26 | 20 | 17 | 24 | 19 | 16 | 14 | 14 |
| 10 | 40 | 29 | 22 | 17 | 38 | 28 | 21 | 17 | 26 | 20 | 16 | 24 | 19 | 15 | 22 | 17 | 14 | 12 | 12 |

Zonal Lumen Summary

| Zone | Lumens | %Lamp | %Fixt |
|--------|---------|-------|--------|
| 0-30 | 660.01 | 12.70 | 14.70 |
| 0-40 | 1205.69 | 23.20 | 26.90 |
| 0-60 | 2464.57 | 47.40 | 54.90 |
| 0-90 | 3616.23 | 69.50 | 80.60 |
| 90-120 | 663.08 | 12.80 | 14.80 |
| 90-130 | 778.20 | 15.00 | 17.30 |
| 90-150 | 858.98 | 16.50 | 19.10 |
| 90-180 | 870.79 | 16.70 | 19.40 |
| 0-180 | 4487.02 | 86.30 | 100.00 |

Total Luminaire Efficiency = 86%

CO6ALS_1xT5 28W



UL listed under UL File
No. E307841-1
Lumen Multiplier 28W/54W=0,58

Coefficients Of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

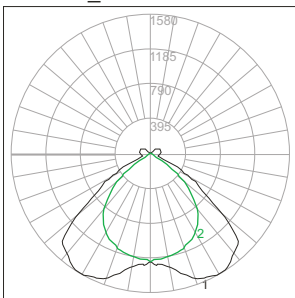
| RC | 80 | | | 70 | | | 50 | | | 30 | | | 10 | | | 0 | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | |
| 0 | 94 | 94 | 94 | 94 | 90 | 90 | 90 | 90 | 84 | 84 | 84 | 78 | 78 | 78 | 72 | 72 | 72 | 69 | 69 |
| 1 | 86 | 83 | 79 | 77 | 83 | 80 | 77 | 74 | 74 | 72 | 70 | 69 | 67 | 66 | 64 | 63 | 62 | 59 | 59 |
| 2 | 80 | 74 | 69 | 65 | 76 | 71 | 67 | 63 | 66 | 63 | 60 | 62 | 59 | 57 | 58 | 56 | 54 | 52 | 52 |
| 3 | 73 | 66 | 60 | 55 | 70 | 64 | 58 | 54 | 60 | 55 | 52 | 56 | 52 | 49 | 53 | 50 | 47 | 45 | 45 |
| 4 | 68 | 59 | 53 | 48 | 65 | 57 | 52 | 47 | 54 | 49 | 45 | 51 | 47 | 43 | 48 | 44 | 42 | 40 | 40 |
| 5 | 63 | 53 | 47 | 42 | 60 | 52 | 46 | 41 | 49 | 44 | 40 | 46 | 42 | 38 | 44 | 40 | 37 | 35 | 35 |
| 6 | 58 | 48 | 42 | 37 | 56 | 47 | 41 | 37 | 45 | 39 | 35 | 42 | 38 | 34 | 40 | 36 | 33 | 31 | 31 |
| 7 | 54 | 44 | 38 | 33 | 52 | 43 | 37 | 33 | 41 | 35 | 32 | 39 | 34 | 31 | 37 | 33 | 30 | 28 | 28 |
| 8 | 50 | 40 | 34 | 30 | 49 | 39 | 33 | 29 | 37 | 32 | 28 | 35 | 31 | 28 | 34 | 30 | 27 | 25 | 25 |
| 9 | 47 | 37 | 31 | 27 | 45 | 36 | 30 | 26 | 34 | 29 | 26 | 33 | 28 | 25 | 31 | 27 | 24 | 23 | 23 |
| 10 | 44 | 34 | 28 | 24 | 43 | 33 | 28 | 24 | 32 | 27 | 23 | 30 | 26 | 23 | 29 | 25 | 22 | 21 | 21 |

Zonal Lumen Summary

| Zone | Lumens | %Lamp | %Fixt |
|--------|---------|-------|--------|
| 0-30 | 616.17 | 23.70 | 29.20 |
| 0-40 | 1056.88 | 40.60 | 50.10 |
| 0-60 | 1599.66 | 58.10 | 75.80 |
| 0-90 | 1806.98 | 69.50 | 85.60 |
| 90-120 | 226.17 | 8.70 | 10.70 |
| 90-130 | 264.30 | 10.20 | 12.50 |
| 90-150 | 301.17 | 11.60 | 14.30 |
| 90-180 | 303.59 | 11.70 | 14.40 |
| 0-180 | 2110.57 | 81.20 | 100.00 |

Total Luminaire Efficiency = 81%

CO6ALS_2xT5 28W



UL listed under UL File
No. E307841-1
Lumen Multiplier 28W/54W=0,58

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 | 88 | 88 | 88 | 88 | 85 | 85 | 85 | 85 | 80 | 80 | 80 | 75 | 75 | 75 | 71 | 71 | 71 | 69 | 69 |
| 1 | 81 | 78 | 75 | 73 | 79 | 76 | 73 | 71 | 72 | 70 | 68 | 68 | 66 | 64 | 64 | 63 | 61 | 60 | 60 |
| 2 | 75 | 69 | 65 | 61 | 72 | 67 | 63 | 60 | 64 | 60 | 58 | 60 | 58 | 55 | 57 | 55 | 53 | 51 | 51 |
| 3 | 69 | 62 | 56 | 52 | 66 | 60 | 55 | 51 | 57 | 53 | 49 | 54 | 51 | 48 | 52 | 49 | 46 | 44 | 44 |
| 4 | 63 | 55 | 49 | 45 | 61 | 54 | 48 | 44 | 51 | 46 | 43 | 49 | 45 | 41 | 46 | 43 | 40 | 38 | 38 |
| 5 | 58 | 49 | 43 | 39 | 56 | 48 | 42 | 38 | 46 | 41 | 37 | 44 | 40 | 36 | 42 | 38 | 35 | 34 | 34 |
| 6 | 54 | 45 | 38 | 34 | 52 | 44 | 38 | 33 | 42 | 37 | 33 | 40 | 35 | 32 | 38 | 34 | 31 | 30 | 30 |
| 7 | 50 | 40 | 34 | 30 | 48 | 40 | 34 | 30 | 38 | 33 | 29 | 36 | 32 | 28 | 35 | 31 | 28 | 26 | 26 |
| 8 | 46 | 37 | 31 | 27 | 45 | 36 | 30 | 26 | 35 | 29 | 26 | 33 | 29 | 25 | 32 | 28 | 25 | 23 | 23 |
| 9 | 43 | 34 | 28 | 24 | 42 | 33 | 27 | 24 | 32 | 27 | 23 | 31 | 26 | 23 | 29 | 25 | 22 | 21 | 21 |
| 10 | 41 | 31 | 25 | 22 | 39 | 30 | 25 | 21 | 29 | 24 | 21 | 28 | 24 | 21 | 27 | 23 | 20 | 19 | 19 |

Zonal Lumen Summary

| Zone | Lumens | %Lamp | %Fixt |
|--------|---------|-------|--------|
| 0-30 | 1086.54 | 20.90 | 27.80 |
| 0-40 | 1887.48 | 36.30 | 48.30 |
| 0-60 | 3224.01 | 62.00 | 82.40 |
| 0-90 | 3577.85 | 68.80 | 91.50 |
| 90-120 | 231.61 | 4.50 | 5.90 |
| 90-130 | 283.79 | 5.50 | 7.30 |
| 90-150 | 329.55 | 6.30 | 8.40 |
| 90-180 | 332.82 | 6.40 | 8.50 |
| 0-180 | 3910.67 | 75.20 | 100.00 |

Total Luminaire Efficiency = 75%