

**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 allows use in modern offices, shops, and restaurants.

**SPECIFICATIONS:**

**Construction:** Housing, Latches, Internal Reflector Mtg. Brackets, all Precision Injection Molded of UV inhibited Polycarbonate Resin [Bayer Makrolon™] with continuous/seamless robotically inserted gasketing. Clear or opal diffuser of UV inhibited Polycarbonate Resin [Bayer Makrolon™]

**Mounting:** Fixture Mtg. Brackets die-formed from Stainless Steel [2 supplied per unit]

**Shielding:** reflector of galvanized steel, High reflectance Powdercoat white finish.

**Electrical:** Ballasts are electronic as selected, T-5 units Standard with electronic ballasts

**Listing:** cULus, Wet location to meet US and Canadian Safety Standards

**Photometrics:** Detailed photometric data in .ies format available on CD-ROM or from our web site: [www.essystem-usa.com](http://www.essystem-usa.com)

**Typical Catalog Number:**

**CO2 128 CL - XX** = COSMO\_2 with HF electronic ballast, Clear diffuser

**Lamp:** 1 x 28W T-5, for 2 lamp version - change **128** to **228**

**Distribution:** Direct

**Options:**

**Opal diffuser:** change **CL** to **OP**

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

Type: \_\_\_\_\_

Project: \_\_\_\_\_

QTY: \_\_\_\_\_

Catalog No.: \_\_\_\_\_

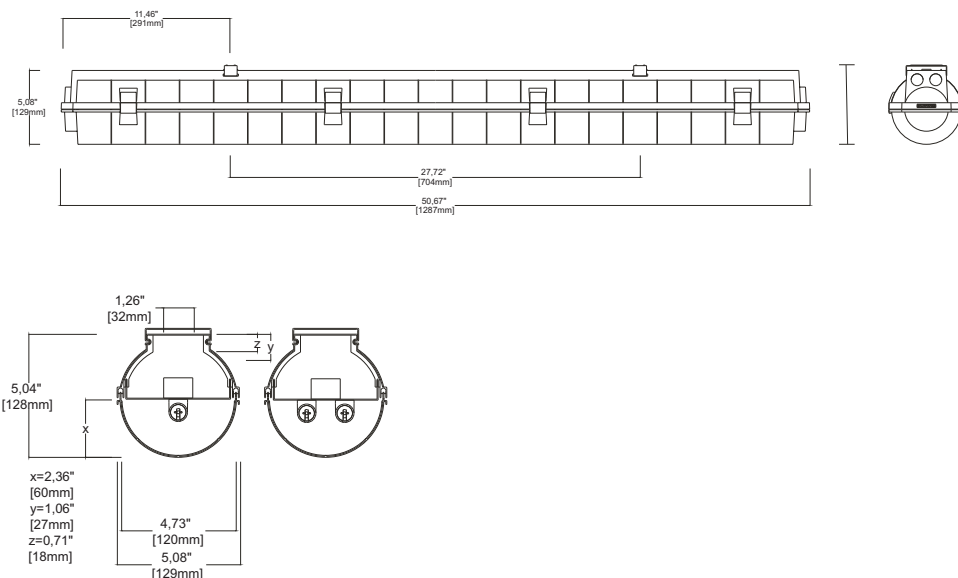
Lamp: \_\_\_\_\_



**COSMO\_2**

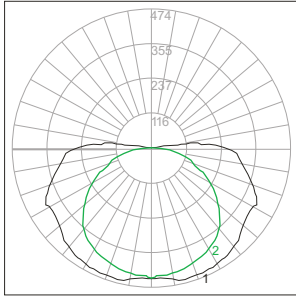


**COSMO\_2**



**PHOTOMETRICS**

**CO2\_1xT5 28W**



UL listed under UL File  
 No. E307841-1  
 Lumen Multiplier 28W/54W = 0,58  
 Lumen Multiplier Opal Diffuser = 0,85

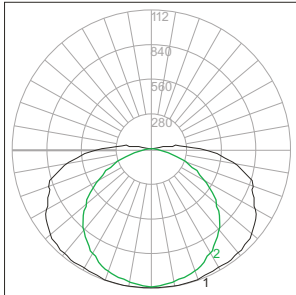
**Coefficients Of Utilization - Zonal Cavity Method**  
 Effective Floor Cavity Reflectance 0.20

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	97	97	97	97	94	94	94	94	88	88	88	83	83	83	79	79	79	77
1	85	80	75	70	82	77	72	68	72	68	65	68	65	62	64	61	59	57
2	76	67	60	54	73	65	59	53	61	56	51	57	53	49	54	50	47	44
3	68	58	50	44	66	56	49	43	53	46	41	49	44	40	46	42	38	36
4	62	51	42	36	59	49	41	35	46	39	34	43	38	33	41	36	32	30
5	57	45	36	30	54	43	36	30	41	34	29	39	33	28	36	31	27	25
6	52	40	32	26	50	39	31	26	37	30	25	35	29	24	33	27	23	21
7	48	36	28	23	46	35	28	22	33	27	22	31	26	21	30	25	21	19
8	45	33	25	20	43	32	25	20	30	24	19	29	23	19	27	22	18	16
9	42	30	23	18	40	29	22	18	28	21	17	26	21	17	25	20	16	15
10	39	27	21	16	38	27	20	16	26	20	15	24	19	15	23	18	15	13

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixt
0-30	368.78	14.20	17.10
0-40	627.88	24.10	29.20
0-60	1224.65	47.10	56.90
0-90	1990.15	76.50	92.50
90-120	144.18	5.50	6.70
90-130	151.72	5.80	7.10
90-150	159.92	6.20	7.40
90-180	161.16	6.20	7.50
0-180	2151.31	82.70	100.00
Total Luminaire Efficiency = 83%			

**CO2\_2xT5 28W**



UL listed under UL File  
 No. E307841-1  
 Lumen Multiplier 28W/54W = 0,58  
 Lumen Multiplier Opal Diffuser = 0,85

**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	91	91	91	91	86	86	86	82	82	82	77	77	77	75
1	83	78	74	70	81	76	72	69	72	69	66	68	65	63	64	62	60	58
2	75	67	60	55	72	65	59	54	61	56	52	58	54	50	55	51	48	46
3	67	58	50	44	65	56	49	44	53	47	42	50	45	41	47	43	39	37
4	61	51	43	37	59	49	42	36	46	40	35	44	39	34	42	37	33	31
5	56	45	37	31	54	44	36	31	41	35	30	39	33	29	37	32	28	26
6	52	40	32	27	50	39	32	26	37	31	26	35	29	25	33	28	25	23
7	48	36	29	23	46	35	28	23	33	27	23	32	26	22	30	25	22	20
8	44	33	25	21	43	32	25	20	30	24	20	29	24	20	28	23	19	17
9	41	30	23	18	40	29	23	18	28	22	18	27	21	17	26	21	17	16
10	39	28	21	16	37	27	21	16	26	20	16	25	19	16	24	19	15	14

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixt
0-30	879.00	15.20	19.00
0-40	1485.26	25.60	32.00
0-60	2878.16	49.60	62.10
0-90	4374.05	75.40	94.30
90-120	227.02	3.90	4.90
90-130	243.24	4.20	5.20
90-150	260.90	4.50	5.60
90-180	262.50	4.50	5.70
0-180	4636.55	79.90	100.00
Total Luminaire Efficiency = 80%			