

**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, Clear or opal diffuser, Latches, Ballast Shielding Mtg. Brackets, 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:** Without reflector. Provides direct/indirect light distribution
- Electrical:** Ballasts are electronic as selected
- 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:**

**CO3 128 CL - XX** = COSMO\_3 with HF electronic ballast, Clear diffuser/enclosure

**Lamp:** 1 x 28W T-5, **Distribution:** Direct/Indirect

**OPTIONS:**

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

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

**CO3 132 CL - XX** = COSMO\_3 with HF electronic ballast, Clear diffuser/enclosure

**Lamp:** 1 x 32W T-8, **Distribution:** Direct/Indirect

**Options:**

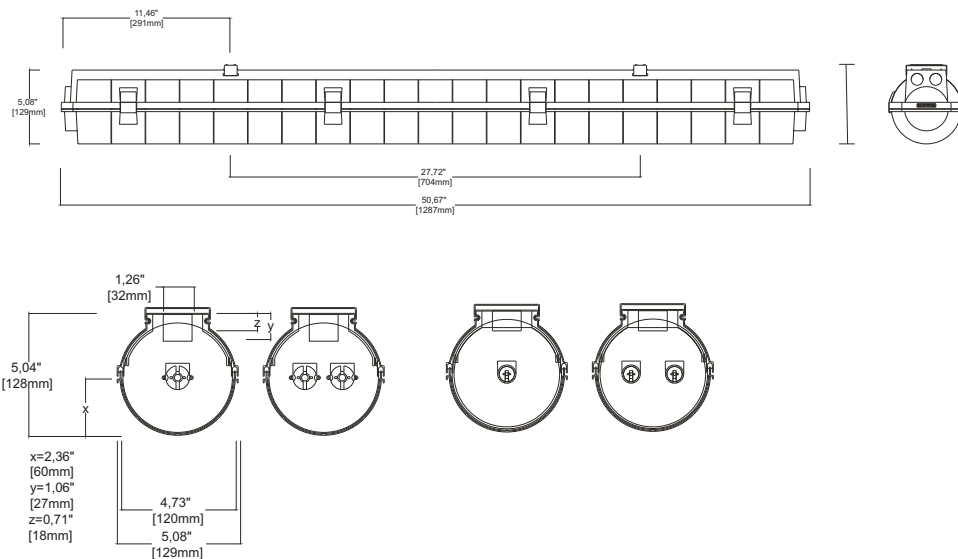
**Opal diffuser:** change **CL** to **OP**.

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

Type: \_\_\_\_\_  
 Project: \_\_\_\_\_  
 QTY: \_\_\_\_\_  
 Catalog No.: \_\_\_\_\_  
 Lamp: \_\_\_\_\_

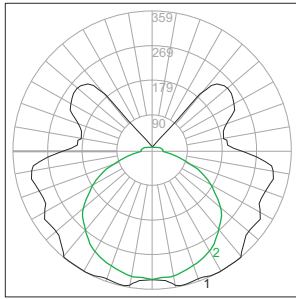


**COSMO\_3**



**PHOTOMETRICS**

**CO3\_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

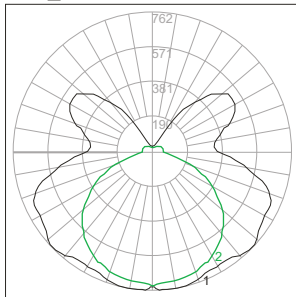
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RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	99	99	99	99	94	94	94	94	84	84	84	75	75	75	67	67	67	63
1	87	81	76	72	82	77	72	68	68	65	61	60	58	55	53	51	49	45
2	78	69	62	56	73	65	59	53	58	53	48	51	47	43	45	41	39	35
3	70	60	51	45	65	56	49	43	50	44	39	44	39	35	39	35	31	28
4	64	52	44	37	59	49	41	36	44	37	32	39	33	29	34	30	26	23
5	58	46	38	31	54	43	36	30	39	32	27	34	29	25	30	26	22	20
6	53	41	33	27	50	39	31	26	35	28	23	31	25	21	27	23	19	17
7	49	37	29	23	46	35	28	22	31	25	20	28	23	19	25	20	17	15
8	46	33	26	20	43	32	25	20	28	22	18	25	20	16	22	18	15	13
9	43	30	23	18	40	29	22	17	26	20	16	23	18	15	21	16	13	11
10	40	28	21	16	37	27	20	16	24	18	14	21	17	13	19	15	12	10

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixt
0-30	281.69	10.80	12.30
0-40	486.11	18.70	21.20
0-60	963.76	37.10	42.00
0-90	1630.62	62.70	71.10
90-120	430.70	16.60	18.80
90-130	557.47	21.40	24.30
90-150	650.85	25.00	28.40
90-180	661.84	25.50	28.90
0-180	2292.46	88.20	100.00

Total Luminaire Efficiency = 88 %

**CO3\_2xT5 28W**



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

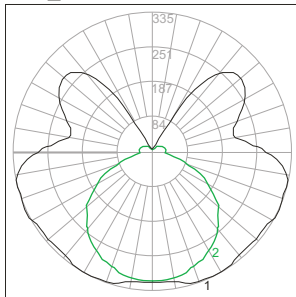
**Coefficients Of Utilization - Zonal Cavity Method**  
Effective Floor Cavity Reflectance 0.20

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	84	84	84	76	76	76	67	67	67	64
1	88	82	78	73	83	78	74	70	69	66	63	62	59	57	55	53	51	47
2	78	70	63	57	74	66	60	55	59	54	50	52	48	45	46	43	40	37
3	71	60	52	46	66	57	50	44	51	45	40	45	40	36	40	36	33	30
4	64	53	44	38	60	50	42	36	45	38	33	40	34	30	35	31	27	24
5	59	47	38	32	55	44	37	31	39	33	28	35	30	26	31	27	23	21
6	54	42	33	27	51	39	32	26	35	29	24	31	26	22	28	23	20	18
7	50	37	29	24	47	36	28	23	32	26	21	29	23	19	25	21	17	15
8	46	34	26	21	43	32	25	20	29	23	19	26	21	17	23	19	15	13
9	43	31	24	19	40	29	23	18	27	21	16	24	19	15	21	17	14	12
10	40	28	21	17	38	27	20	16	24	19	15	22	17	14	20	15	12	11

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixt
0-30	597.47	11.50	13.00
0-40	1012.62	19.50	22.00
0-60	2022.29	38.90	44.00
0-90	3303.06	63.50	71.90
90-120	810.14	15.60	17.60
90-130	1050.92	20.20	22.90
90-150	1257.85	24.20	27.40
90-180	1291.32	24.80	28.10
0-180	4594.38	88.40	100.00

**CO3\_1xT8 32W**



UL listed under UL File  
No. E307841-1  
Lumen Multiplier Opal Diffuser = 0,85

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

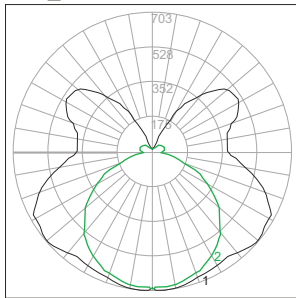
RC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	94	94	94	94	89	89	89	89	79	79	79	69	69	69	61	61	61	57
1	82	77	72	68	77	72	68	64	64	60	57	55	53	50	48	46	44	40
2	74	65	58	53	69	61	55	50	54	49	44	47	43	39	40	37	34	31
3	66	56	48	42	62	53	46	40	46	41	36	40	36	32	34	31	28	25
4	60	49	41	35	56	46	39	33	40	34	30	35	30	26	30	26	23	20
5	55	43	35	29	51	41	33	28	36	30	25	31	26	22	27	23	20	17
6	51	39	31	25	47	36	29	24	32	26	21	28	23	19	24	20	17	14
7	47	35	27	22	43	33	26	21	29	23	19	25	20	17	22	18	15	12
8	43	32	24	19	40	30	23	18	26	21	16	23	18	15	20	16	13	11
9	40	29	22	17	38	27	21	16	24	18	15	21	16	13	18	14	12	10
10	38	26	20	15	35	25	19	14	22	17	13	20	15	12	17	13	10	9

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixt
0-30	260.58	9.30	11.00
0-40	447.10	16.00	18.80
0-60	897.94	32.10	37.80
0-90	1594.35	6.90	67.10
90-120	467.61	16.70	19.70
90-130	615.72	22.00	25.90
90-150	768.80	27.50	32.40
90-180	780.18	27.90	32.90
0-180	2374.47	84.80	100.00

Total Luminaire Efficiency = 85%

**CO3\_2xT8 32W**



UL listed under UL File  
No. E307841-1  
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	90	90	90	90	85	85	85	85	75	75	75	67	67	67	59	59	59	55
1	79	74	70	66	74	70	66	63	62	59	56	54	52	50	47	46	44	40
2	71	63	57	52	66	60	54	49	53	48	44	46	42	39	40	37	35	32
3	64	55	47	42	60	51	45	40	45	40	36	40	35	32	34	31	28	25
4	58	48	40	34	54	45	38	33	40	34	30	35	30	27	30	27	24	21
5	53	42	35	29	50	40	33	28	35	29	25	31	26	22	27	23	20	18
6	49	38	30	25	46	36	29	24	32	26	22	28	23	19	24	20	17	15
7	45	34	27	22	42	32	25	21	28	23	19	25	20	17	22	18	15	13
8	42	31	24	19	39	29	23	18	26	20	16	23	18	15	20	16	13	11
9	39	28	21	17	36	26	20	16	24	18	15	21	16	13	18	15	12	10
10	36	26	19	15	34	24	18	14	22	17	13	19	15	12	17	13	11	9

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixt
0-30	550.48	9.80	12.20
0-40	929.44	16.60	20.60
0-60	1857.22	33.20	41.10
0-90	3079.71	55.00	68.20
90-120	864.66	15.40	19.10
90-130	1131.29	20.20	25.10
90-150	1406.11	25.10	31.10
90-180	1436.22	5.60	31.80
0-180	4515.91	80.60	100.00

Total Luminaire Efficiency = 80 %