

**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 diffuser of UV inhibited Polycarbonate Resin [Bayer Makrolon™]

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

**Shielding:** specular back reflector that provides better "bat-wing" light distribution and performance.

**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:**

**CO4 128 CL - XX** = COSMO\_4 with HF electronic ballast, Clear diffuser

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

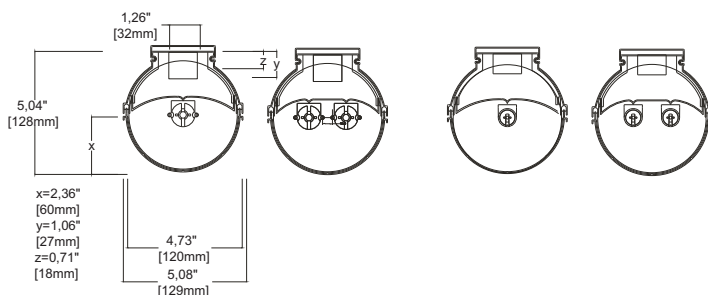
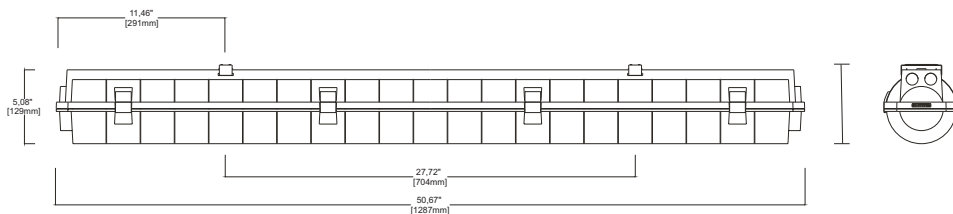
**Options:**

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

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

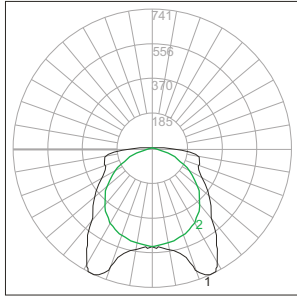


**COSMO\_4**



**PHOTOMETRICS**

**CO4\_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

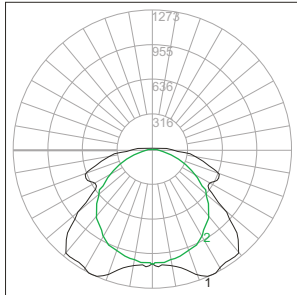
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RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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1	88	83	79	75	85	81	77	73	76	73	70	72	70	67	69	67	65	63
2	79	72	65	60	77	70	64	59	66	61	57	63	59	55	59	56	53	51
3	72	62	55	49	69	61	54	49	58	52	47	55	50	46	52	48	45	42
4	66	55	47	41	63	54	46	41	51	45	40	49	43	39	46	42	38	36
5	60	49	41	35	58	48	40	35	46	39	34	43	38	33	41	37	33	31
6	56	44	36	31	54	43	36	30	41	35	30	39	33	29	37	32	29	27
7	51	40	32	27	50	39	32	27	37	31	26	36	30	26	34	29	25	23
8	48	36	29	24	46	35	28	24	34	28	23	33	27	23	31	26	22	21
9	45	33	26	21	43	32	26	21	31	25	21	30	24	20	29	24	20	19
10	42	30	24	19	40	30	23	19	29	23	19	28	22	18	27	22	18	17

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixt
0-30	481.22	18.50	22.30
0-40	828.23	31.90	38.30
0-60	1485.16	57.10	68.70
0-90	2057.85	79.10	95.20
90-120	96.74	3.70	4.50
90-130	102.74	4.00	4.80
90-150	104.80	4.00	4.80
90-180	104.80	4.00	4.80
0-180	2162.65	83.20	100.00

Total Luminaire Efficiency = 83%

**CO4\_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

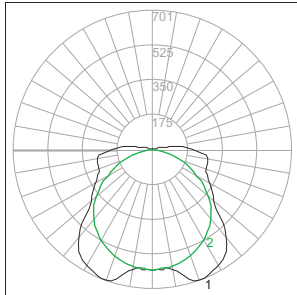
RC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	99	99	99	99	96	96	96	96	91	91	91	86	86	86	82	82	82	80
1	88	84	79	76	85	81	77	74	77	74	71	73	70	68	69	67	65	63
2	80	72	65	60	77	70	64	59	66	61	57	63	59	55	60	56	53	51
3	72	62	55	49	70	61	54	48	58	52	47	55	50	46	52	48	44	42
4	66	55	47	41	63	54	46	41	51	45	40	48	43	39	46	42	38	36
5	60	49	41	35	58	48	40	35	46	39	34	43	38	33	41	36	32	30
6	55	44	36	30	53	43	35	30	41	34	29	39	33	29	37	32	28	26
7	51	39	32	26	49	38	31	26	37	30	26	35	30	25	34	29	25	23
8	48	36	28	23	46	35	28	23	34	27	23	32	27	22	31	26	22	20
9	44	33	26	21	43	32	25	21	31	25	20	30	24	20	28	23	20	18
10	41	30	23	19	40	29	23	19	28	22	18	27	22	18	26	21	18	16

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixt
0-30	907.84	17.50	20.90
0-40	1582.03	30.40	36.40
0-60	2971.42	57.10	68.40
0-90	4153.00	79.90	95.70
90-120	169.58	3.30	3.90
90-130	181.38	3.50	4.20
90-150	188.15	3.60	4.30
90-180	188.15	3.60	4.30
0-180	4341.15	83.50	100.00

Total Luminaire Efficiency = 83%

**CO4\_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

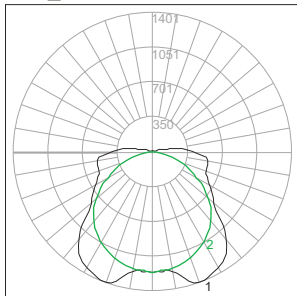
RC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	99	99	99	99	96	96	96	96	91	91	91	86	86	86	82	82	82	79
1	89	84	79	75	86	81	77	74	77	73	70	72	70	67	69	66	64	62
2	80	72	66	60	77	70	64	59	66	61	57	63	59	55	59	56	53	51
3	73	63	56	50	70	61	54	49	58	52	47	55	50	46	52	48	44	42
4	66	56	48	42	64	54	47	41	51	45	40	49	43	39	46	42	38	36
5	61	50	42	36	59	48	41	35	46	39	34	44	38	34	42	37	33	31
6	56	45	37	31	54	43	36	31	41	35	30	39	34	29	38	33	29	27
7	52	40	33	27	50	39	32	27	38	31	26	36	30	26	34	29	25	24
8	48	37	29	24	47	36	29	24	34	28	24	33	27	23	31	26	23	21
9	45	34	26	22	44	33	26	21	32	25	21	30	25	21	29	24	20	19
10	42	31	24	20	41	30	24	19	29	23	19	28	23	19	27	22	18	17

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixt
0-30	529.48	18.90	22.40
0-40	893.91	31.90	37.80
0-60	1582.93	56.50	67.00
0-90	2224.09	79.40	94.10
90-120	128.07	4.60	5.40
90-130	135.43	4.80	5.70
90-150	139.29	5.00	5.90
90-180	139.29	5.00	5.90
0-180	2363.38	84.40	100.00

Total Luminaire Efficiency = 84%

**CO4\_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	99	99	99	99	96	96	96	96	91	91	91	86	86	86	82	82	82	79
1	89	84	79	75	86	81	77	74	77	73	70	72	70	67	69	66	64	62
2	80	72	66	60	77	70	64	59	66	61	57	63	59	55	59	56	53	51
3	73	63	56	50	70	61	54	49	58	52	47	55	50	46	52	48	44	42
4	66	56	48	42	64	54	47	41	51	45	40	49	43	39	46	42	38	36
5	61	50	42	36	59	48	41	35	46	39	34	44	38	34	42	37	33	31
6	56	45	37	31	54	43	36	31	41	35	30	39	34	29	38	33	29	27
7	52	40	33	27	50	39	32	27	38	31	26	36	30	26	34	29	25	24
8	48	37	29	24	47	36	29	24	34	28	24	33	27	23	31	26	23	21
9	45	34	26	22	44	33	26	21	32	25	21	30	25	21	29	24	20	19
10	42	31	24	20	41	30	24	19	29	23	19	28	23	19	27	22	18	17

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixt
0-30	1058.96	18.90	22.40
0-40	1787.81	31.90	37.80
0-60	3165.87	56.50	67.00
0-90	4448.18	79.40	94.10
90-120	256.14	4.60	5.40
90-130	270.85	4.80	5.70
90-150	278.58	5.00	5.90
90-180	278.58	5.00	5.90
0-180	4726.75	84.40	100.00

Total Luminaire Efficiency = 84%