

Note: Luminaire can be ordered with or without diffuser shield. Order each separately.

() Denotes dimensions in mm

Fixture Ordering Information

Catalog No.	Finish	Wattage	Voltage	Lamping
48228ALU	Metallic Aluminum Powder Coated	2 x 28W	120/277V	T-5, Mini-Bipin
48254ALU	Metallic Aluminum Powder Coated	2 x 54W	120/277V	T-5 HO, Mini-Bipin High Output

Diffuser Ordering Information (Order diffuser separately)

Catalog No.	Description	Dimensions	Finish
40800	Flat Glass Diffuser (3/8" Thick)	9" W x 42 7/8" L	White ceramic coated top, etched bottom. Clear polished edges.
40810	Curved Glass Diffuser (3/8" Thick)	8 1/4" W x 42 7/8" L	Etched top and bottom. Clear polished edges.

Features

- Mounting Plate:** 18 GA. (.048) Galvanized steel for direct mounting to most junction boxes. Secondary mounting holes provided to mount directly to ceiling.
- End Cap:** (2) Die cast aluminum. See above for finish.
- End Cover:** (2) Die cast aluminum. See above for finish.
- Lamp Enclosure:** (2) Extruded aluminum. See above for finish.
- Support Stem:** (2) 3/8" diameter steel tubing. Luminaire provided with three lengths (10", 16" and 22"). See above for overall heights. Stems can not be added together.
- Swivel:** (2) Meets California Earthquake codes.
- Housing:** Extruded aluminum. See above for finish.
- Ballast:** See below for details.

Lamping (by others)

Linear Fluorescent: 28W T5 or 54W T5 HO, Mini Bipin

Electrical

Lampholders: G5 (Mini-Bipin) base with rotor for securing lamp. cULus Listed. Ballast: Electronic, HPF, Universal voltage 120V-277V.

Voltage	28 Watt		54 Watt	
	120V	277V	120V	277V
Total Input Watts	64	63	120	117
Max. Line Current (Amps)	0.55	0.23	1.0	0.43
Ballast Factor	1.03	1.03	1.0	1.0

Min. Starting Temp: 0°F/-18°C
THD<10%

Options

Dimming: (Voltage Specific/54W HO lamps)

Add MX1 suffix code (for 120V) to Cat. No.
Add MX2 suffix code (for 277V) to Cat. No.
example: 48254ALMX1

Emergency: Integral Bodine LP550 emergency battery pack, test switch and light, add E suffix code to Cat. No.

DALI: Digital Dimming System ballast 120/277V. Add DA suffix code to Cat. No.

Labels

cULus Listed. Suitable for Damp Locations

Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	

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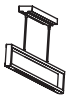
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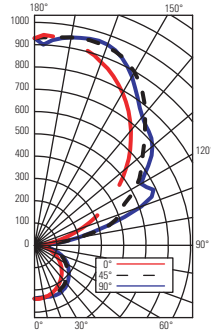
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LIGHTOLIER®



Architectural Decorative Soli Zontio **48228ALU**

Flat Glass Diffuser Cat. No. 40800/48254ALU 2-54W T-5 Lamps, 4400 Lumens



Report No. 2670FR
SC (Along) = 1.3
SC (Across) = 1.5

Angle	Candlepower Summary				Output Lumens
	Along	42.5	45	67.5	
0	239	239	239	239	239
5	241	240	239	238	236
15	235	235	238	240	239
25	220	224	233	243	233
35	199	208	224	235	236
45	173	186	204	213	215
55	141	160	177	186	186
65	106	129	144	152	152
75	66	91	101	99	99
85	27	40	41	40	42
90	14	25	29	30	27
95	37	90	89	88	90
105	155	249	347	341	337
115	305	387	448	534	589
125	461	547	583	624	623
135	607	697	700	714	724
145	735	805	843	820	807
155	837	879	933	939	928
165	906	914	953	964	959
175	941	928	936	932	924
180	929	929	929	929	929

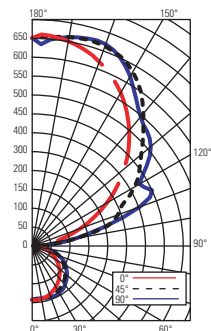
Zonal Lumens and Percentages			
Zone	Lumens	% Lamp	%Luminaire
0-30	197	2.25	4.80
0-40	335	3.82	8.16
0-60	643	7.32	15.63
0-90	925	10.52	22.48
40-90	589	6.70	14.32
60-90	282	3.21	6.85
90-180	3192	36.27	77.52
0-180	4117	46.79	100.00

** Efficiency = 46.8% **

Coefficients of Utilization															
Zonal Cavity Method															
Effective Floor Cavity Reflectance = .20															
Ceiling	80			70			50			30			10		
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
Wall															
RCR															
0	.47	.47	.47	.42	.42	.42	.32	.32	.32	.23	.23	.23	.14	.14	.14
1	.41	.39	.37	.36	.35	.33	.28	.27	.26	.20	.19	.19	.12	.12	.12
2	.35	.33	.30	.31	.29	.27	.24	.22	.21	.17	.16	.15	.11	.10	.10
3	.31	.28	.25	.28	.25	.23	.21	.19	.18	.15	.14	.13	.10	.09	.08
4	.27	.24	.21	.24	.21	.19	.19	.16	.15	.13	.12	.11	.08	.08	.07
5	.24	.20	.18	.21	.18	.16	.16	.14	.12	.12	.10	.09	.07	.07	.06
6	.21	.18	.15	.19	.16	.14	.15	.12	.11	.11	.09	.08	.07	.06	.05
7	.19	.16	.13	.17	.14	.12	.13	.11	.09	.09	.08	.07	.06	.05	.04
8	.17	.14	.11	.15	.12	.10	.12	.10	.08	.09	.07	.06	.05	.04	.04
9	.15	.12	.10	.14	.11	.09	.11	.08	.07	.08	.06	.05	.05	.04	.03
10	.14	.11	.09	.13	.10	.08	.10	.08	.06	.07	.05	.04	.04	.03	.02

Determined In Accordance With Current IES Published Procedures
Luminaire Input Watts = 120.0

Flat Glass Diffuser Cat. No. 40800/48228ALU 2-28W T-5 Lamps, 2610 Lumens



Report No. 2676FR
SC (Along) = 1.3
SC (Across) = 1.5

Angle	Candlepower Summary				Output Lumens
	Along	42.5	45	67.5	
0	142	142	142	142	142
5	144	143	142	142	140
15	140	140	141	143	142
25	131	134	139	144	145
35	118	124	133	140	141
45	103	111	122	127	128
55	84	95	106	111	111
65	63	77	86	90	91
75	40	55	60	59	59
85	16	24	25	24	25
90	9	16	18	18	17
95	22	54	53	53	54
105	92	148	207	203	201
115	181	230	266	317	350
125	274	325	346	370	370
135	361	414	416	424	430
145	436	478	501	487	479
155	497	522	554	558	551
165	538	543	566	572	569
175	559	551	556	553	549
180	551	551	551	551	551

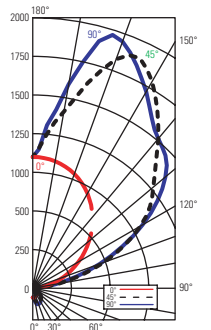
Zonal Lumens and Percentages			
Zone	Lumens	% Lamp	%Luminaire
0-30	117	2.25	4.80
0-40	199	3.83	8.17
0-60	383	7.34	15.66
0-90	552	10.58	22.55
40-90	352	6.75	14.38
60-90	168	3.23	6.89
90-180	1896	36.33	77.45
0-180	2448	46.91	100.00

** Efficiency = 46.9% **

Coefficients of Utilization															
Zonal Cavity Method															
Effective Floor Cavity Reflectance = .20															
Ceiling	80			70			50			30			10		
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
Wall															
RCR															
0	.47	.47	.47	.42	.42	.42	.32	.32	.32	.23	.23	.23	.14	.14	.14
1	.41	.39	.37	.36	.35	.33	.28	.27	.26	.20	.19	.19	.13	.12	.12
2	.35	.33	.30	.31	.29	.27	.24	.22	.21	.17	.16	.15	.11	.10	.10
3	.31	.28	.25	.28	.25	.23	.21	.19	.18	.15	.14	.13	.10	.09	.08
4	.27	.24	.21	.24	.21	.19	.19	.17	.15	.13	.12	.11	.08	.08	.07
5	.24	.20	.18	.22	.18	.16	.16	.14	.13	.12	.10	.09	.07	.07	.06
6	.21	.18	.15	.19	.16	.14	.15	.12	.11	.11	.09	.08	.07	.06	.05
7	.19	.16	.13	.17	.14	.12	.13	.11	.09	.09	.08	.07	.06	.05	.04
8	.17	.14	.11	.15	.12	.10	.12	.10	.08	.09	.07	.06	.05	.04	.04
9	.16	.12	.10	.14	.11	.09	.11	.08	.07	.08	.06	.05	.05	.04	.03
10	.14	.11	.09	.13	.10	.08	.10	.08	.06	.07	.05	.04	.04	.03	.02

Determined In Accordance With Current IES Published Procedures
Luminaire Input Watts = 65

Cat. No. 48254ALU 2-54W T-5 Lamps, 4400 Lumens



Report No. 2671FR
SC (Along) = 1.2
SC (Across) = 1.9

Angle	Candlepower Summary				Output Lumens
	Along	42.5	45	67.5	
0	60	60	60	60	60
5	61	63	64	64	63
15	58	69	92	106	106
25	53	80	103	108	106
35	45	84	94	94	93
45	38	73	75	73	72
55	30	58	56	52	50
65	25	41	36	32	30
75	17	25	20	18	17
85	8	11	11	9	9
90	9	16	16	16	16
95	39	74	58	56	50
105	147	335	322	304	292
115	275	580	651	650	639
125	409	866	927	981	984
135	541	1179	1124	1185	1214
145	658	1324	1405	1364	1343
155	751	1212	1641	1622	1590
165	814	1052	1375	1586	1655
175	845	879	992	1039	1059
180	849	849	849	849	849

Zonal Lumens and Percentages			
Zone	Lumens	% Lamp	%Luminaire
0-30	72	.83	1.52
0-40	125	1.43	2.62
0-60	225	2.56	4.70
0-90	294	3.35	6.14
40-90	168	1.92	3.52
60-90	69	.79	1.44
90-180	4498	51.12	93.86
0-180	4792	54.46	100.00

** Efficiency = 54.5% **

Coefficients of Utilization															
Zonal Cavity Method															
Effective Floor Cavity Reflectance = .20															
Ceiling	80			70			50			30			10		
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
Wall															
RCR															
0	.53	.53	.53	.45	.45	.45	.32	.32	.32	.20	.20	.20	.09	.09	.09
1	.46	.44	.42	.40	.38	.36	.28	.27	.26	.17	.17	.16	.08	.07	.07
2	.40	.37	.34	.34	.32	.30	.24	.23	.21	.15	.14	.14	.07	.06	.06
3	.35	.31	.28	.30	.27	.25	.22	.20	.18	.13	.12	.12	.06	.05	.05
4	.31	.27	.24	.27	.23	.21	.19	.17	.15	.12	.11	.10	.05	.05	.04
5	.27	.23	.20	.24	.20	.18	.17	.15	.13	.11	.09	.08	.05	.04	.04
6	.24	.20	.17	.21	.18	.15	.15	.13	.11	.09	.08	.07	.04	.04	.03
7	.22	.18	.15	.19	.15	.13	.13	.11	.09	.08	.07	.06	.04	.03	.03
8	.19	.16	.13	.17	.14	.11	.12	.10	.08	.08	.06	.05	.03	.03	.02
9	.18	.14	.11	.15	.12	.10	.11	.09	.07	.07	.06	.05	.03	.02	.02
10	.16	.12	.10	.14	.11	.09	.10	.08	.06	.06	.05	.04	.03	.02	.02

Determined In Accordance With Current IES Published Procedures
Luminaire Input Watts = 120.0

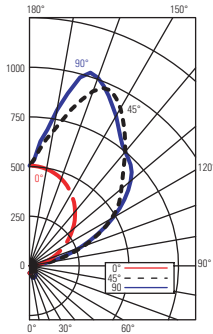
Job Information **Type:**

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Cat. No. 48228ALU 2-28W T-5 Lamps, 2610 Lumens



Report No. 2677FR
 SC (Along) = 1.2
 SC (Across) = 1.9

Candlepower Summary					
Angle	Along	45	67.5	Across	Output Lumens
0	36	36	36	36	36
5	37	38	38	38	4
15	35	41	55	63	14
25	32	48	62	64	25
35	27	50	56	56	32
45	23	44	45	44	32
55	18	35	34	31	28
65	15	25	22	19	21
75	11	16	12	11	13
85	5	7	7	6	9
90	6	10	10	10	10
95	23	44	35	33	30
105	88	199	191	181	173
115	164	344	387	386	380
125	243	514	550	582	584
135	322	700	667	703	720
145	391	786	834	810	797
155	446	719	974	963	944
165	483	625	816	941	982
175	502	522	589	617	629
180	504	504	504	504	504

Zonal Lumens and Percentages			
Zone	Lumens	% Lamp	% Luminaire
0-30	43	.84	1.53
0-40	75	1.44	2.64
0-60	135	2.59	4.74
0-90	177	3.40	6.23
40-90	102	1.96	3.59
60-90	42	.81	1.49
90-180	2671	51.17	93.77
0-180	2848	54.57	100.00

** Efficiency = 54.6% **

Coefficients of Utilization																
Zonal Cavity Method																
Effective Floor Cavity Reflectance = .20																
Ceiling	80			70			50			30			10			
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																
0	.53	.53	.53	.46	.46	.46	.32	.32	.32	.20	.20	.20	.09	.09	.09	.03
1	.46	.44	.42	.40	.38	.36	.28	.27	.26	.17	.17	.16	.08	.07	.07	.03
2	.40	.37	.34	.35	.32	.30	.25	.23	.22	.15	.14	.14	.07	.06	.06	.02
3	.35	.31	.29	.30	.27	.25	.22	.20	.18	.14	.13	.12	.06	.06	.05	.02
4	.31	.27	.24	.27	.24	.21	.19	.17	.15	.12	.11	.10	.05	.05	.04	.02
5	.27	.23	.20	.24	.20	.18	.17	.15	.13	.11	.09	.08	.05	.04	.04	.01
6	.24	.20	.17	.21	.18	.15	.15	.13	.11	.09	.08	.07	.04	.04	.03	.01
7	.22	.18	.15	.19	.16	.13	.14	.11	.10	.08	.07	.06	.04	.03	.03	.01
8	.20	.16	.13	.17	.14	.11	.12	.10	.08	.08	.06	.05	.03	.03	.02	.01
9	.18	.14	.11	.15	.12	.10	.11	.09	.07	.07	.06	.05	.03	.03	.02	.01
10	.16	.12	.10	.14	.11	.09	.10	.08	.06	.06	.05	.04	.03	.02	.02	.01

Determined In Accordance With Current IES Published Procedures
 Luminaire Input Watts = 65

Job Information **Type:**

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