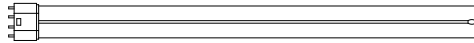


ORBIT SURFACE

SPECIFICATIONS



Housing: Housing is 20-gauge spun steel. Perforated ring is attached with 4 or 6 fasteners.

Luminous Bowl: Bowl is formed white opal acrylic standard with the option of three faux alabaster choices.

Reflector: Biaxial fluorescent reflector is high reflectance specular aluminum. CFL reflector is high reflectance white powder coat paint.

Mounting: ORSF35 is ceiling mount only. ORSF20 is ceiling or wall mount and ADA compliant.

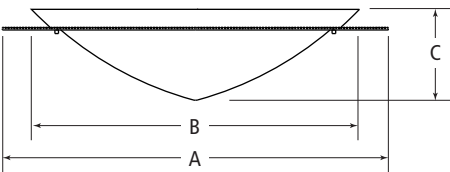
Electrical: Fluorescent ballasts are instant start, normal light output, high power factor, and sound rated A. Ballast factor varies between 0.86 and 0.90 depending on lamp wattage, number of lamps, and voltage. Consult factory for specific ballast factor.

Finish: Standard colors are available from color chart. Plated finishes and custom colors are available. Specify finish of ring and housing. Fasteners will be same finish as ring.

Certification: UL and CUL listed and IBEW labeled.



DIMENSIONS



Diameter	A	B	C
20"	20" 508	18" 457	4" 101
35"	35" 888	29 5/8" 752	8 1/16" 204

EXAMPLE

fixture series	lamps	ring style	ring finish	housing finish	voltage	options
ORSF20	1/382D	P	SGW	SGW	120	GLR

ORSF20	1/212D 1/282D 1/382D	P -perforated ring N -no ring	SGW -semi-gloss white (refer to color chart in Product Selection Guide for other standard colors) SCH -satin chrome CH -polished chrome BR -polished brass AB -antique brass SBN -satin brushed nickel PN -polished nickel CC -custom color	SGW -semi-gloss white (refer to color chart in Product Selection Guide for other standard colors) SCH -satin chrome CH -polished chrome BR -polished brass AB -antique brass SBN -satin brushed nickel PN -polished nickel CC -custom color	120 277	GLR -GLR fuse and HLR holder GMF -GMF slow blow fuse and holder ALB/# -Faux alabaster bowl (see color chart for #) EM1 -B70A or equal EM2 -B50 or equal EM3 -B100 or equal EM4 -B60 or equal DIM1 -Advance Mark VII dimming DIM2 -Advance Mark X dimming DIM3 -Lutron ECO-10 dimming ballast DIM4 -Lutron Hi-Lume dimming ballast
ORSF35	1/39BX 2/39BX 3/39BX					

Due to a program of continuous improvement, LAM Lighting reserves the right to make any variation in design or construction to the equipment described.

ORDER

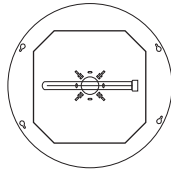
project name: _____ type: _____ quantity: _____

- - - - - -

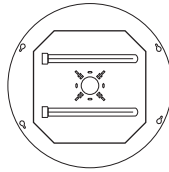
LAMP CONFIGURATIONS



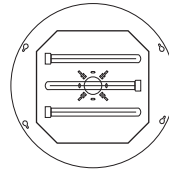
1 LAMP 2D



1 LAMP BX

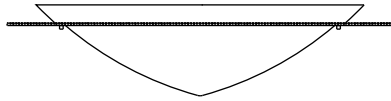


2 LAMP BX

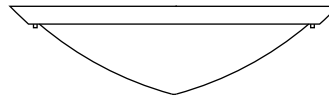


3 LAMP BX

HOUSING STYLES



Perforated ring



No ring

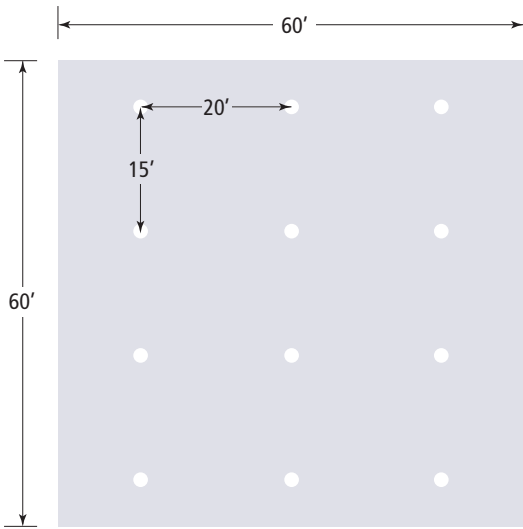
EMERGENCY POWER

Fixture Diameter	Lamps	Battery Location	Limitations
20	1/21	Remote	3-feet maximum remote distance
20	1/28	Remote	3-feet maximum remote distance
20	1/38	Remote	3-feet maximum remote distance
35	1/39	Integral	1 circuit (1 ballast)
35	2/39	Integral	1 circuit (1 ballast)
35	3/39	Integral	1 circuit (1 ballast)

DIMMING

Fixture Diameter	Lamps	DIM1	DIM2	DIM3	DIM4
20	1/21	No	No	No	No
20	1/28	No	No	No	No
20	1/38	No	No	No	No
35	1/39	Yes	Yes	Yes	Yes
35	2/39	Yes	Yes	Yes	Yes
35	3/39	Yes	Yes	Yes	Yes

APPLICATION DATA



14' ceiling height

4-Lamp 39-Watt

OR41-4/39-1/382D, 2850 average lumens per lamp, 0.87 average ballast factor, 0.75 LLF

Mounting Height	Foot Candle Average	Uniformity (Max/Min)	Ceiling Uniformity (Max/Min)
10'	20	2:1	7:1

POWER DENSITY IS 0.6 WATTS PER SQUARE FOOT

Reflectance: 80/50/20

Light Loss Factor: 0.95 room depreciation, 0.95 fixture depreciation, 0.87 lamp depreciation, 0.96 ballast factor = 0.75 total LLF

6-Lamp 39-Watt

OR41-6/39-1/382D, 2850 average lumens per lamp, 0.95 average ballast factor, 0.75 LLF

Mounting Height	Foot Candle Average	Uniformity (Max/Min)	Ceiling Uniformity (Max/Min)
10'	30	2:1	7:1

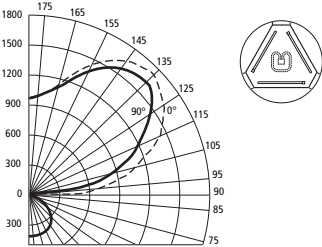
POWER DENSITY IS 0.8 WATTS PER SQUARE FOOT

Reflectance: 80/50/20

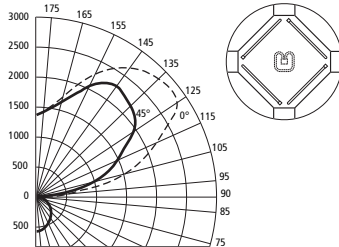
Light Loss Factor: 0.95 room depreciation, 0.95 fixture depreciation, 0.87 lamp depreciation, 0.96 ballast factor = 0.75 total LLF

PHOTOMETRICS

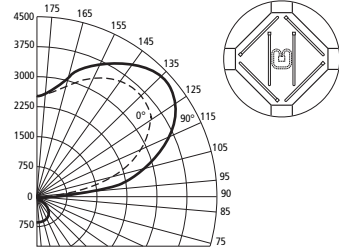
OR35-3/39-1/282D



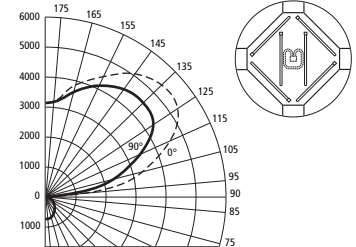
OR48-4/40-1/382D



OR48-6/40-1/382D



OR48-6/50-1/382D



CANDELA DISTRIBUTION

	0	22	45	67	90
180°	945	945	945	945	945
175°	969	973	976	975	975
165°	1208	1179	1193	1193	1181
155°	1403	1375	1397	1390	1362
145°	1631	1581	1606	1605	1545
135°	1699	1698	1691	1691	1622
125°	1610	1556	1559	1593	1450
115°	1407	1298	1302	1377	1200
105°	1043	937	986	982	862
95°	375	331	357	352	304
90°	98	98	101	104	99
85°	49	49	49	49	49
75°	100	100	100	100	100
65°	163	163	163	163	163
55°	243	243	243	243	243
45°	303	303	303	303	303
35°	367	367	367	367	367
25°	410	410	410	410	410
15°	440	440	440	440	440
5°	456	456	456	456	456
0°	461	461	461	461	461

CANDELA DISTRIBUTION

	0	22	45	67	90
180°	1322	1322	1322	1322	1322
175°	1399	1401	1398	1376	1383
165°	1759	1718	1686	1724	1767
155°	2155	2087	1964	2095	2158
145°	2534	2462	2214	2464	2538
135°	2776	2531	2145	2539	2776
125°	2737	2493	2058	2453	2815
115°	2249	2110	1582	2057	2210
105°	1677	1655	1247	1628	1672
95°	832	828	380	810	792
90°	702	269	136	238	210
85°	84	91	96	90	90
75°	133	132	137	135	132
65°	218	218	220	218	219
55°	319	318	321	318	319
45°	400	400	401	400	400
35°	491	488	490	490	490
25°	546	546	546	546	546
15°	593	593	593	591	593
5°	610	606	606	607	607
0°	610	610	610	610	610

CANDELA DISTRIBUTION

	0	22	45	67	90
180°	2521	2521	2521	2521	2521
175°	2602	2592	2607	2592	2600
165°	2990	2951	2970	3060	3135
155°	3307	3300	3267	3500	3604
145°	3597	3629	3538	3944	4079
135°	3683	3579	3425	4019	4343
125°	3505	3395	3260	3822	4264
115°	2746	2868	2681	3338	3584
105°	1947	2192	2057	2599	2705
95°	454	418	838	1032	1027
90°	109	113	142	212	213
85°	66	65	69	67	67
75°	133	132	137	135	132
65°	218	218	220	218	219
55°	319	318	321	318	319
45°	400	400	401	400	400
35°	491	488	490	490	490
25°	546	546	546	546	546
15°	593	593	593	591	593
5°	610	606	606	607	607
0°	610	610	610	610	610

CANDELA DISTRIBUTION

	0	22	45	67	90
180°	3113	3113	3113	3113	3113
175°	3213	3204	3220	3201	3211
165°	3693	3644	3668	3779	3872
155°	4084	4076	4035	4323	4451
145°	4442	4482	4369	4871	5038
135°	4549	4420	4230	4963	5364
125°	4329	4193	4026	4720	5266
115°	3391	3542	3311	4122	4426
105°	2405	2707	2540	3210	3341
95°	561	516	1035	1275	1268
90°	135	140	175	262	263
85°	82	80	85	83	83
75°	164	163	169	167	163
65°	269	269	271	269	270
55°	394	393	396	393	394
45°	494	494	495	494	494
35°	606	603	605	605	605
25°	674	674	674	674	674
15°	732	732	732	730	732
5°	753	748	748	750	750
0°	753	753	753	753	753

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture Output	% Lamp Output
0-90°	1380	15.7	13.0
90-180°	7410	84.3	69.9
0-180°	8790	100.0	82.9

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture Output	% Lamp Output
0-90°	1895	14.2	12.2
90-180°	11490	85.8	74.4
0-180°	13385	100.0	86.6

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture Output	% Lamp Output
0-90°	1844	9.7	8.5
90-180°	17228	90.3	79.2
0-180°	19072	100.0	87.7

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture Output	% Lamp Output
0-90°	2271	10.0	8.0
90-180°	21272	90.0	79.0
0-180°	23544	100.0	88.0