

Project:	Catalog No:	Mfg:
Location:	Fixture Type:	Qty:
Notes:		Lamps:

### Power Head (Titanium Finish)

Cat. No.	Lamp	Watts	Volts	Options
412U3	CFL Triple Tube	26/32/42	120/277	MX1, MX2, DA, E3
41270U	CFL Triple Tube	70	120/277	MX1, MX2, E3
41285U	CFL Triple Tube	85	120/277	Not App.
412H70	M.H. ED17	70	120	Not App.

**Complete Unit Consists of:** Power Head, Reflector or Glass Shade & Suspension (order each separately)  
 Suffix to be added to Cat.No. (i.e.404722XU3)

### 12" Power Head Options

Cat. No.	Description
MX1	Mark X Dimming 26/32/42W, 120V only*
MX2	Mark X Dimming 26/32/42W, 277V only*
E3	347V (Canada)
DA	DALI (Digital Addressable Lighting Interface)**

\* 2-wire, neutral connection required at dimming control.  
 \*\* 5-wire Suspension Kit required

### Suspension

Cat. No.	Color	Description
404SKG 404SKB	Gray Black	Cable/Straight Cord, 120" Length
404S36 404S36B	Gray Black	36" Length 5/8" Stem
404S60 404S60B	Gray Black	60" Length 5/8" Stem
404S120	Gray	120" Length 5/8" Stem

### Features

- 1. Reflector System:** Reflector: High purity, 16 gauge aluminum. Exterior satined and anodized. Interior low iridescent comfort clear anodized. Glass Diffusers: Diffusers fabricated of pressed glass with soft etched exterior and matte white interior frit.
- 2. Power Head Housing:** Two-piece extruded aluminum.
- 3. Suspension:** Cable and Cord SJT18-3, Black or Grey. Canopy, 20 gage, .036 CRS. Can be field shortened or 5/8" steel tubing and canopy with 35° swivel hanger.

### Optional Extension Kits

Cat. No.	Color	Description
404EXT300*	Gray	25" Extension Cable/Cord Kit
404EXTB*	Black	25" Straight Cable/Cord Extension Kit
404SG5**	Gray	120" 5-wire Straight Cord
404SB5**	Black	120" 5-wire Straight Cord
404EXT300G5**	Gray	5-wire, 25' Cord/Cable
404EXT300B5**	Black	5-wire, 25' Cord/Cable

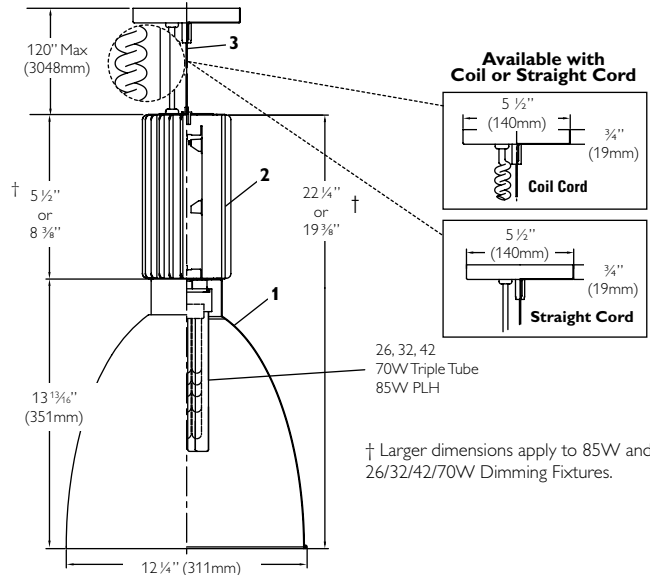
\* Use with Standard Cord or Deco Suspension Kit.  
 \*\* DALI requires a 5-wire Suspension, use with Standard Suspension Kit.

### Lamping (by others)

Compact Fluorescent:

General Electric	Osrn/Sylvania	Philips
(1) 26W Triple Tube 4-Pin (Amalgam) CFL		
F26TBX/*A/4P	CF26DT/E/IN/*	PL-T26W/*4P
(1) 32W Triple Tube 4-Pin (Amalgam) CFL		
F32TBX/*A/4P	CF32DT/E/IN/*	PL-T32W/*4P
(1) 42W Triple Tube 4-Pin (Amalgam) CFL		
F42QBX/*A/4P	CF42DT/E/IN/*	PL-T42W/*4P
(1) 70W Triple Tube 4-Pin (Amalgam) CFL		
F70QBX/*A/4P/EOL	CF70DT/E/IN/*	N/A
(1) 85W Triple Tube 4-Pin (Amalgam) CFL		
N/A	N/A	PL-H85W/*4P

\* Manufacturers' color temperature designation.



### Reflector/Glass

Cat. No.	Description
42SR	Satin Aluminum Reflector
42WH	White Glass
42BL	Cobalt Blue Glass
42AB	Amber Glass

### Close to Ceiling Kits

Cat. No.	Color
4912CTCTM	Titanium

Use with standard 9" Pendalyte and 12" Performance Pendalyte

### Electrical

Lampholders: Compact Fluorescent:  
 4-pin, 26/32W base: GX24q-3; 42W base: GX24q-4; 70W base: GX24q-6; 85W base: 2G8  
 Ballasts: Fluorescent

Voltage	26 Watt		32 Watt		42 Watt		70 Watt		85 Watt	
	120	277	120	277	120	277	120	277	120	277
Total Input Watts	26	26	36	36	47	47	73	72	98	98
Max. Line Current (Amps)	.22	.09	.30	.09	.39	.17	.61	.27	.82	.36

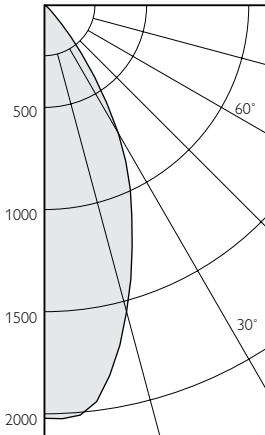
Power Factor > 0.98, Ballast Factor 0.98, THD < 10%  
 Minimum Starting Temperature 0°F

### Labels

cULus listed suitable for damp locations.

### 2666FR

Satin Aluminum Reflector, Cat.# 412U3 / 42SR,  
32W CFL, Lumen Rating = 2400 Lms.



#### Candlepower Summary

Angle	Mean CP	LMS.
0	2023	
5	2015	188
10	1841	
15	1554	440
20	1256	
25	995	459
30	724	
35	427	279
40	199	
45	76	75
50	38	
55	22	21
60	13	
65	8	9
70	5	
75	2	2
80	0	
85	0	0
90	0	

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

#### Coefficients of Utilization

Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50		
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%										
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%										
0	.73	.73	.73	.73	.71	.71	.68	.68	.65	.65	.61
1	.70	.69	.68	.66	.68	.65	.65	.63	.63	.62	.59
2	.68	.65	.63	.61	.64	.61	.62	.59	.60	.58	.56
3	.65	.62	.59	.57	.61	.57	.60	.56	.58	.55	.54
4	.63	.59	.56	.54	.58	.54	.57	.53	.56	.53	.51
5	.60	.56	.53	.51	.55	.51	.54	.50	.53	.50	.48
6	.58	.53	.50	.48	.53	.48	.52	.48	.51	.47	.46
7	.55	.51	.48	.46	.50	.45	.49	.45	.49	.45	.44
8	.53	.48	.45	.43	.48	.43	.47	.43	.47	.43	.42
9	.51	.46	.43	.41	.46	.41	.45	.40	.45	.40	.39
10	.49	.44	.41	.39	.44	.39	.43	.39	.43	.38	.38

Determined In Accordance With Current IES Published Procedures  
Luminaire Input Watts = 33.0

#### Zonal Lumens and Percentages

Zone	Lumens	% Lamp	% Luminaire
0-30	1087	45.31	73.81
0-40	1366	56.93	92.74
0-60	1462	60.95	99.27
0-90	1473	61.39	100.00
40-90	107	4.46	7.26
60-90	10	.45	.73
90-180	0	.00	.00
0-180	1473	61.39	100.00

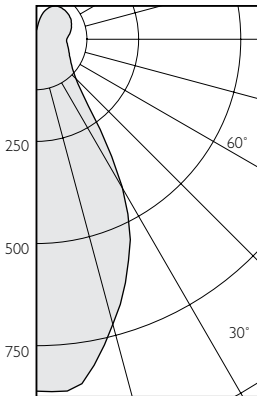
Certified test report# 2666FR  
Computed by LSI program  
\*\*TEST-LITE\*\* SC = .7

Prepared For: Lightolier  
Fall River, MA

\*\* Efficiency = 61.4% \*\*

### 2650FR

White Glass Reflector Cat.# 412U3/42WH  
32W CFL, Lumen Rating = 2400 Lms.



#### Candlepower Summary

Angle	Mean CP	LMS.	Angle	Mean	LMS.
0	864		95	79	87
5	867	40	100	84	
10	813		105	88	93
15	724	129	110	91	
20	637		115	94	93
25	544	273	120	97	
30	420		125	98	87
35	272	651	130	98	
40	174		135	98	75
45	135	628	140	97	
50	115		145	95	59
55	103	191	150	92	
60	95		155	86	40
65	89	18	160	77	
70	84		165	66	18
75	80	2	170	49	
80	77		175	29	3
85	74	0	180	20	
90	75				

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

#### Coefficients of Utilization

Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50		
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%										
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%										
0	.80	.80	.80	.80	.76	.76	.67	.67	.59	.59	.49
1	.73	.70	.67	.65	.66	.61	.59	.55	.52	.49	.41
2	.67	.62	.58	.54	.59	.52	.53	.47	.47	.43	.36
3	.63	.56	.51	.47	.53	.45	.48	.42	.43	.38	.32
4	.58	.51	.46	.42	.49	.40	.44	.38	.40	.35	.30
5	.55	.47	.41	.37	.45	.36	.41	.34	.37	.31	.27
6	.51	.43	.38	.34	.41	.33	.38	.31	.34	.29	.25
7	.48	.40	.34	.31	.38	.30	.35	.28	.32	.26	.23
8	.45	.37	.32	.28	.35	.27	.33	.26	.30	.24	.21
9	.42	.34	.29	.26	.33	.25	.30	.24	.28	.23	.20
10	.40	.32	.27	.24	.31	.23	.28	.22	.26	.21	.19

Determined In Accordance With Current IES Published Procedures  
Luminaire Input Watts = 32.0

#### Zonal Lumens and Percentages

Zone	Lumens	% Lamp	% Luminaire
0-30	534	22.29	31.00
0-40	713	29.73	41.34
0-60	914	38.12	53.02
0-90	1169	48.74	67.78
40-90	456	19.01	26.44
60-90	254	10.62	14.76
90-180	556	23.17	32.22
0-180	1725	71.91	100.00

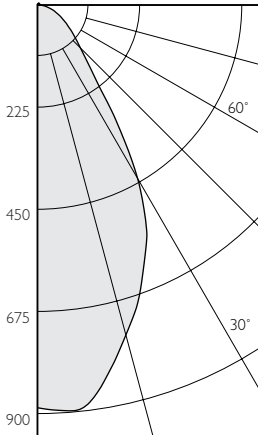
Certified test report# 2650FR  
Computed by LSI program  
\*\*TEST-LITE\*\* SC = .9

Prepared For: Lightolier  
Fall River, MA

\*\* Efficiency = 71.9% \*\*

### 2647FR

Amber Glass Reflector, Cat.# 412U3/42AB,  
32W CFL, Lumen Rating = 2400 Lms.



#### Candlepower Summary

Angle	Mean CP	LMS.	Angle	Mean	LMS.
0	885		90	3	
5	895	188	95	3	3
10	840		100	3	
15	750	440	105	4	4
20	662		110	4	
25	567	459	115	5	5
30	438		120	5	
35	282	279	125	5	5
40	179		130	5	
45	132	75	135	5	4
50	104		140	5	
55	82	21	145	5	3
60	65		150	4	
65	51	9	155	3	1
70	39		160	2	
75	27	2	165	1	0
80	18		170	1	
85	9	0	175	0	0
90	3		180	0	

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

#### Coefficients of Utilization

Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50		
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%										
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%										
0	.51	.51	.51	.51	.50	.50	.47	.47	.45	.43	.42
1	.48	.47	.46	.45	.46	.44	.44	.42	.42	.41	.39
2	.46	.43	.41	.40	.42	.39	.41	.38	.39	.37	.35
3	.43	.40	.38	.36	.39	.35	.38	.35	.37	.34	.32
4	.41	.37	.35	.33	.37	.32	.35	.32	.34	.31	.30
5	.38	.35	.32	.30	.34	.30	.33	.29	.32	.29	.28
6	.36	.32	.29	.28	.32	.27	.31	.27	.30	.27	.26
7	.34	.30	.27	.25	.30	.25	.29	.25	.28	.25	.24
8	.33	.28	.25	.24	.28	.23	.27	.23	.27	.23	.22
9	.31	.26	.24	.22	.26	.22	.26	.22	.25	.21	.21
10	.29	.25	.22	.20	.25	.20	.24	.20	.24	.20	.19

Determined In Accordance With Current IES Published Procedures  
Luminaire Input Watts = 32.0

#### Zonal Lumens and Percentages

Zone	Lumens	% Lamp	%Luminaire
0-30	555	23.13	53.49
0-40	740	30.85	71.34
0-60	921	38.38	88.76
0-90	1012	42.18	97.53
40-90	271	11.32	26.18
60-90	91	3.79	8.77
90-180	25	1.07	2.47
0-180	1037	43.25	100.00

Certified test report# 2647FR  
Computed by LSI program  
\*\*TEST-LITE\*\* SC = .9

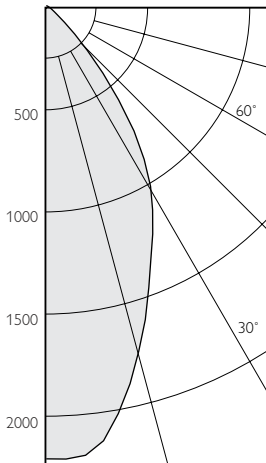
Notes: Amber Glass and Cobalt Blue  
Glass have the same Photometrics.

Prepared For: Lightolier  
Fall River, MA

\*\* Efficiency = 43.2% \*\*

### 2665FR

Satin Aluminum Reflector Cat.# 412U3/42SR  
42W CFL, Lumen Rating = 3200 Lms.



#### Candlepower Summary

Angle	Mean CP	LMS.
0	2184	
5	2175	204
10	1997	
15	1723	488
20	1445	
25	1214	564
30	1005	
35	737	456
40	425	
45	194	172
50	73	
55	37	38
60	21	
65	11	12
70	6	
75	2	2
80	0	
85	0	0
90	0	

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

#### Coefficients of Utilization

Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50		
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%										
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%										
0	.72	.72	.72	.72	.70	.70	.67	.67	.64	.64	.61
1	.69	.68	.66	.65	.66	.64	.64	.62	.62	.60	.57
2	.66	.64	.61	.60	.62	.59	.60	.58	.59	.56	.54
3	.63	.60	.57	.55	.59	.55	.58	.54	.56	.53	.51
4	.60	.56	.54	.51	.56	.51	.55	.50	.53	.50	.48
5	.58	.53	.50	.48	.53	.47	.52	.47	.51	.47	.45
6	.55	.50	.47	.45	.50	.45	.49	.44	.48	.44	.43
7	.52	.47	.44	.42	.47	.42	.46	.41	.45	.41	.40
8	.50	.45	.41	.39	.44	.39	.44	.39	.43	.39	.38
9	.47	.42	.39	.36	.42	.36	.41	.36	.41	.36	.35
10	.45	.40	.36	.34	.39	.34	.39	.34	.38	.34	.33

Determined In Accordance With Current IES Published Procedures  
Luminaire Input Watts = 59.0

#### Zonal Lumens and Percentages

Zone	Lumens	% Lamp	%Luminaire
0-30	1255	39.25	64.86
0-40	1711	53.50	88.42
0-60	1921	60.05	99.24
0-90	1936	60.51	100.00
40-90	224	7.01	11.58
60-90	14	.46	.76
90-180	0	.00	.00
0-180	1936	60.51	100.00

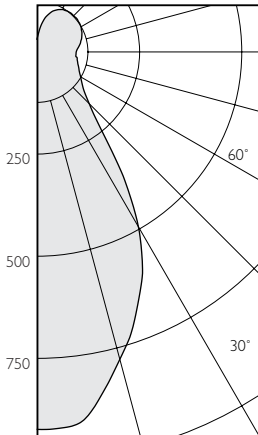
Certified test report# 2665FR  
Computed by LSI program  
\*\*TEST-LITE\*\* SC = .8

Prepared For: Lightolier  
Fall River, MA

\*\* Efficiency = 60.5% \*\*

### 2649FR

White Glass Reflector, Cat.# 412U3/42WH,  
42W CFL, Lumen Rating = 3200 Lms.



#### Candlepower Summary

Angle	Mean CP	LMS.	Angle	Mean	LMS.
0	920		90	97	
5	917	86	95	102	112
10	863		100	108	
15	778	221	105	113	119
20	696		110	117	
25	607	278	115	120	119
30	495		120	123	
35	359	227	125	124	111
40	236		130	125	
45	180	145	135	124	96
50	150		140	123	
55	134	121	145	120	75
60	123		150	116	
65	114	114	155	109	50
70	108		160	99	
75	103	109	165	85	24
80	100		170	64	
85	96	106	175	39	4
90	97		180	27	

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

#### Coefficients of Utilization

Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50		
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%										
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%										
0	.74	.74	.74	.74	.69	.69	.61	.61	.54	.54	.44
1	.67	.64	.61	.59	.60	.55	.53	.50	.47	.44	.37
2	.62	.57	.53	.49	.54	.47	.48	.43	.42	.38	.32
3	.57	.51	.46	.42	.48	.41	.43	.37	.39	.34	.28
4	.53	.46	.41	.37	.44	.36	.40	.33	.35	.30	.26
5	.49	.42	.37	.33	.40	.32	.36	.30	.33	.27	.23
6	.46	.38	.33	.30	.37	.29	.33	.27	.30	.25	.21
7	.43	.35	.30	.27	.34	.26	.31	.24	.28	.23	.20
8	.40	.33	.28	.24	.31	.24	.28	.22	.26	.21	.18
9	.38	.30	.25	.22	.29	.22	.26	.20	.24	.19	.17
10	.36	.28	.23	.20	.27	.20	.25	.19	.23	.18	.15

Determined In Accordance With Current IES Published Procedures  
Luminaire Input Watts = 39.0

#### Zonal Lumens and Percentages

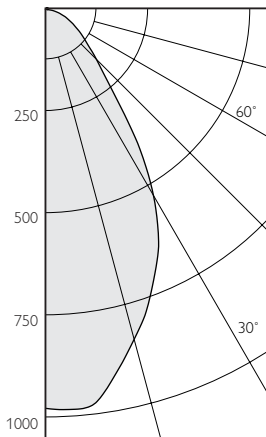
Zone	Lumens	% Lamp	%Luminaire
0-30	585	18.29	27.64
0-40	812	25.40	38.38
0-60	1078	33.71	50.93
0-90	1407	43.99	66.47
40-90	594	18.59	28.09
60-90	329	10.29	15.54
90-180	710	22.19	33.53
0-180	2117	66.18	100.00

Certified test report# 2649FR  
Computed by LSI program  
\*\*TEST-LITE\*\* SC = .9  
Prepared For: Lightolier  
Fall River, MA

\*\* Efficiency = 66.2% \*\*

### 2648FR

Amber Glass Reflector Cat.# 412U3/42AB  
42W CFL, Lumen Rating = 3200 Lms.



#### Candlepower Summary

Angle	Mean CP	LMS.	Angle	Mean	LMS.
0	983		90	4	
5	983	93	95	4	4
10	931		100	4	
15	842	239	105	5	5
20	753		110	6	
25	657	301	115	6	6
30	533		120	7	
35	385	244	125	7	6
40	249		130	7	
45	181	145	135	6	5
50	137		140	5	
55	109	99	145	5	3
60	85		150	5	
65	66	67	155	4	2
70	51		160	3	
75	36	38	165	2	1
80	23		170	1	
85	12	14	175	0	0
90	4		180	0	

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

#### Coefficients of Utilization

Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50		
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%										
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%										
0	.47	.47	.47	.47	.46	.46	.44	.44	.41	.41	.39
1	.44	.43	.42	.41	.42	.40	.40	.39	.38	.37	.35
2	.42	.39	.38	.36	.39	.35	.37	.35	.36	.34	.32
3	.39	.36	.35	.32	.36	.32	.34	.31	.33	.31	.29
4	.37	.34	.31	.29	.33	.29	.32	.29	.31	.28	.27
5	.35	.31	.28	.27	.31	.26	.30	.26	.29	.26	.25
6	.33	.29	.26	.24	.29	.24	.28	.24	.27	.24	.23
7	.31	.27	.24	.22	.26	.22	.26	.22	.25	.22	.21
8	.29	.25	.22	.21	.25	.20	.24	.20	.24	.20	.19
9	.28	.23	.21	.19	.23	.19	.23	.19	.22	.19	.18
10	.26	.22	.19	.18	.22	.18	.21	.17	.21	.17	.17

Determined In Accordance With Current IES Published Procedures  
Luminaire Input Watts = 39.0

#### Zonal Lumens and Percentages

Zone	Lumens	% Lamp	%Luminaire
0-30	632	19.76	49.78
0-40	876	27.38	68.97
0-60	1119	34.99	88.13
0-90	1238	38.70	97.47
40-90	362	11.32	28.50
60-90	118	3.71	9.33
90-180	32	1.01	2.53
0-180	1270	39.70	100.00

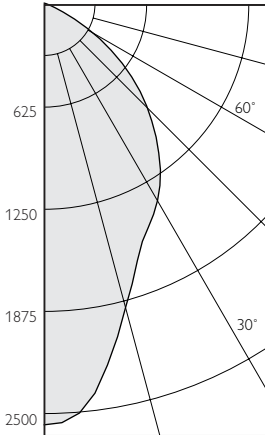
Certified test report# 2648FR  
Computed by LSI program  
\*\*TEST-LITE\*\* SC = .9  
Notes:Amber Glass and Cobalt Blue  
Glass have the same Photometrics.

Prepared For: Lightolier  
Fall River, MA

\*\* Efficiency = 39.7% \*\*

### 2606FR

Satin Aluminum Reflector, Cat.# 41270U/42SR,  
70W CFL, Lumen Rating = 5200 Lms.



#### Candlepower Summary

Angle	Mean CP	LMS.
0	2545	
5	2483	232
10	2218	
15	1906	544
20	1654	
25	1494	696
30	1375	
35	1229	768
40	1056	
45	880	679
50	694	
55	497	446
60	301	
65	131	151
70	44	
75	14	19
80	0	
85	0	0
90	0	

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

#### Coefficients of Utilization

Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50		
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%										
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%										
0	.81	.81	.81	.81	.79	.79	.76	.76	.72	.72	.68
1	.76	.74	.72	.71	.73	.69	.70	.67	.67	.65	.62
2	.72	.68	.65	.62	.67	.62	.65	.60	.63	.59	.57
3	.67	.62	.58	.55	.61	.55	.60	.54	.58	.53	.51
4	.63	.57	.53	.49	.56	.49	.55	.49	.53	.48	.46
5	.59	.52	.48	.44	.52	.44	.50	.44	.49	.43	.42
6	.55	.48	.43	.40	.47	.40	.46	.39	.45	.39	.38
7	.51	.55	.39	.36	.43	.35	.42	.35	.41	.35	.33
8	.48	.40	.35	.32	.40	.32	.39	.32	.38	.31	.30
9	.45	.37	.32	.29	.37	.29	.36	.29	.35	.28	.27
10	.42	.34	.29	.26	.34	.26	.33	.26	.32	.26	.25

Determined In Accordance With Current IES Published Procedures  
Luminaire Input Watts = 79.0

#### Zonal Lumens and Percentages

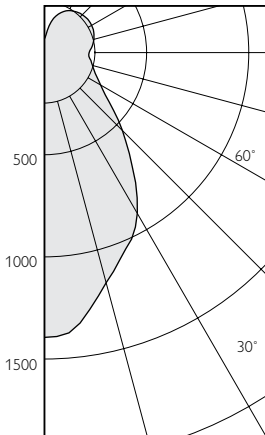
Zone	Lumens	% Lamp	%Luminaire
0-30	1473	28.33	41.65
0-40	2240	43.09	63.36
0-60	3366	64.74	95.19
0-90	3536	68.01	100.00
40-90	1295	24.92	36.64
60-90	170	3.27	4.81
90-180	0	.00	.00
0-180	3536	68.01	100.00

Certified test report# 2606FR  
Computed by LSI program  
\*\*TEST-LITE\*\* SC = .8  
Prepared For: Lightolier  
Fall River, MA

\*\* Efficiency = 68.0% \*\*

### 2644FR

White Glass Reflector Cat.# 41270U / 42WH  
70W CFL, Lumen Rating = 5200 Lms.



#### Candlepower Summary

Angle	Mean CP	LMS.	Angle	Mean	LMS.
0	1401		90	220	
5	1384	130	95	231	252
10	1283		100	242	
15	1172	334	105	252	266
20	1084		110	259	
25	1013	465	115	265	262
30	913		120	267	
35	781	491	125	268	240
40	649		130	266	
45	541	421	135	262	203
50	443		140	256	
55	365	334	145	247	155
60	318		150	237	
65	284	284	155	221	102
70	260		160	200	
75	244	259	165	173	48
80	232		170	133	
85	219	243	175	86	9
90	220		180	67	

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

#### Coefficients of Utilization

Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50		
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%										
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%										
0	.96	.96	.96	.96	.90	.90	.80	.80	.70	.70	.57
1	.87	.83	.79	.75	.78	.71	.69	.64	.60	.57	.46
2	.79	.73	.67	.62	.68	.59	.61	.53	.53	.48	.39
3	.73	.64	.58	.53	.61	.50	.54	.46	.48	.41	.34
4	.67	.58	.51	.46	.55	.44	.49	.40	.43	.36	.30
5	.62	.52	.45	.40	.49	.38	.44	.35	.39	.32	.27
6	.58	.47	.40	.35	.45	.34	.40	.31	.36	.28	.24
7	.53	.42	.36	.31	.40	.30	.36	.27	.33	.25	.21
8	.50	.39	.32	.27	.37	.26	.33	.25	.30	.23	.19
9	.46	.36	.29	.24	.34	.24	.31	.22	.28	.20	.17
10	.43	.33	.26	.22	.31	.21	.28	.20	.26	.18	.15

Determined In Accordance With Current IES Published Procedures  
Luminaire Input Watts = 72.0

#### Zonal Lumens and Percentages

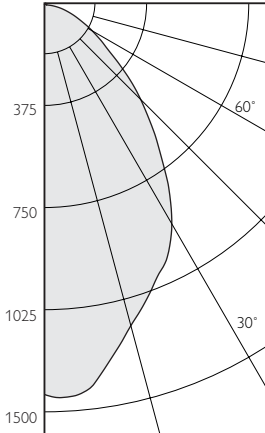
Zone	Lumens	% Lamp	%Luminaire
0-30	929	17.88	20.67
0-40	1420	27.31	31.58
0-60	2175	41.84	48.37
0-90	2961	56.95	65.84
40-90	1541	29.64	34.26
60-90	785	15.11	17.47
90-180	1536	29.55	34.16
0-180	4497	86.49	100.00

Certified test report# 2644FR  
Computed by LSI program  
\*\*TEST-LITE\*\* SC = 1.0  
Prepared For: Lightolier  
Fall River, MA

\*\* Efficiency = 86.5% \*\*

### 2643FR

Amber Glass Reflector, Cat.# 41270U/42AB,  
70W CFL, Lumen Rating = 5200 Lms.



#### Candlepower Summary

Angle	Mean CP	LMS.	Angle	Mean	LMS.
0	1444		90	7	
5	1450	136	95	6	7
10	1351		100	7	
15	1233	351	105	8	8
20	1139		110	8	
25	1057	486	115	8	8
30	944		120	8	
35	794	499	125	8	7
40	643		130	8	
45	512	398	135	8	6
50	392		140	8	
55	286	265	145	7	4
60	219		150	6	
65	163	165	155	5	2
70	119		160	4	
75	83	90	165	3	1
80	53		170	2	
85	27	31	175	0	0
90	7		180	0	

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

#### Coefficients of Utilization

Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%										
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%										
0	.56	.56	.56	.56	.55	.55	.52	.52	.50	.50	.47
1	.53	.51	.49	.48	.50	.47	.48	.45	.46	.44	.41
2	.49	.46	.44	.41	.45	.41	.43	.40	.42	.39	.37
3	.46	.42	.39	.36	.41	.36	.40	.35	.38	.35	.33
4	.43	.38	.35	.32	.38	.32	.36	.32	.35	.31	.30
5	.40	.35	.31	.29	.34	.29	.33	.28	.32	.28	.27
6	.37	.32	.28	.26	.32	.26	.21	.26	.30	.25	.24
7	.35	.29	.26	.23	.29	.23	.28	.23	.27	.23	.22
8	.32	.27	.23	.21	.26	.21	.26	.21	.25	.21	.20
9	.30	.25	.21	.19	.24	.19	.24	.19	.23	.19	.18
10	.28	.23	.19	.17	.23	.17	.22	.17	.22	.17	.16

Determined In Accordance With Current IES Published Procedures  
Luminaire Input Watts = 72.0

#### Zonal Lumens and Percentages

Zone	Lumens	% Lamp	%Luminaire
0-30	972	18.71	39.46
0-40	1471	28.30	59.70
0-60	2135	41.07	86.62
0-90	2421	46.56	98.21
40-90	949	18.26	38.51
60-90	285	5.49	11.59
90-180	44	.85	1.79
0-180	2465	47.41	100.00

Certified test report# 2643FR  
Computed by LSI program  
\*\*TEST-LITE\*\* SC = 1.0

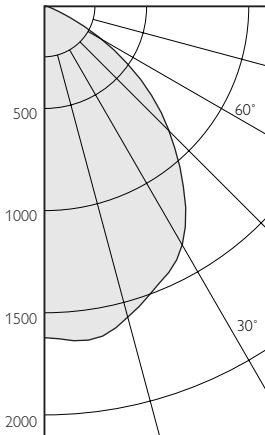
Notes: Amber Glass and Cobalt Blue  
Glass have the same Photometrics.

Prepared For: Lightolier  
Fall River, MA

\*\* Efficiency = 47.4% \*\*

### 2577FR

Satin Aluminum Reflector Cat.# 41285U/42SR  
85W CFL, Lumen Rating = 6000 Lms.



#### Candlepower Summary

Angle	Mean CP	LMS.
0	1611	
5	1632	155
10	1628	
15	1564	443
20	1492	
25	1428	658
30	1338	
35	1195	746
40	1023	
45	852	660
50	679	
55	491	441
60	305	
65	138	156
70	46	
75	14	20
80	0	
85	0	0
90	0	

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

#### Coefficients of Utilization

Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%										
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%										
0	.65	.65	.65	.65	.64	.64	.61	.61	.58	.58	.55
1	.61	.60	.58	.56	.58	.56	.56	.54	.54	.52	.50
2	.58	.54	.52	.50	.53	.49	.52	.48	.50	.47	.45
3	.54	.49	.46	.44	.49	.43	.47	.43	.46	.42	.40
4	.50	.45	.42	.39	.45	.39	.43	.38	.42	.38	.36
5	.47	.41	.37	.34	.41	.34	.40	.34	.39	.34	.32
6	.44	.38	.34	.31	.37	.31	.36	.30	.35	.30	.29
7	.40	.34	.30	.27	.34	.27	.33	.27	.32	.27	.26
8	.38	.31	.27	.24	.31	.24	.30	.24	.29	.24	.23
9	.35	.28	.24	.22	.28	.22	.27	.21	.27	.21	.20
10	.32	.26	.22	.19	.26	.19	.25	.19	.25	.19	.18

Determined In Accordance With Current IES Published Procedures  
Luminaire Input Watts = 96.0

#### Zonal Lumens and Percentages

Zone	Lumens	% Lamp	%Luminaire
0-30	1255	20.93	38.31
0-40	2002	33.37	61.07
0-60	3102	51.71	94.64
0-90	3278	54.64	100.00
40-90	1276	21.27	38.93
60-90	175	2.93	5.36
90-180	0	.00	.00
0-180	3278	54.64	100.00

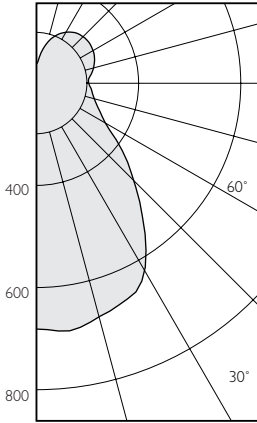
Certified test report# 2577FR  
Computed by LSI program  
\*\*TEST-LITE\*\* SC = 1.2

Prepared For: Lightolier  
Fall River, MA

\*\* Efficiency = 54.6% \*\*

### 2642FR

White Glass Reflector, Cat.# 41285U/42WH,  
85W CFL, Lumen Rating = 6000 Lms.



#### Candlepower Summary

Angle	Mean CP	LMS.	Angle	Mean	LMS.
0	949		90	198	
5	960	91	95	209	228
10	957		100	219	
15	932	265	105	227	240
20	913		110	234	
25	892	408	115	239	236
30	825		120	241	
35	718	451	125	242	216
40	609		130	240	
45	510	398	135	235	182
50	425		140	228	
55	338	311	145	216	135
60	288		150	201	
65	257	257	155	183	84
70	235		160	161	
75	220	234	165	132	37
80	210		170	100	
85	199	220	175	66	7
90	198		180	56	

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

#### Coefficients of Utilization

Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50		
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%										
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%										
0	.74	.74	.74	.74	.70	.70	.61	.61	.54	.54	.44
1	.67	.63	.61	.58	.60	.55	.53	.49	.46	.43	.35
2	.61	.56	.51	.48	.52	.45	.46	.41	.41	.37	.30
3	.56	.49	.44	.40	.46	.38	.41	.35	.37	.31	.26
4	.52	.44	.39	.35	.42	.33	.37	.30	.33	.28	.23
5	.48	.39	.34	.30	.37	.29	.34	.26	.30	.24	.20
6	.44	.36	.30	.26	.34	.25	.30	.23	.27	.21	.18
7	.40	.32	.27	.23	.31	.22	.27	.20	.25	.19	.15
8	.38	.29	.24	.20	.28	.20	.25	.18	.23	.17	.14
9	.35	.27	.21	.18	.25	.17	.23	.16	.21	.15	.12
10	.33	.24	.19	.16	.23	.16	.21	.14	.19	.13	.11

Determined In Accordance With Current IES Published Procedures  
Luminaire Input Watts = 72.0

#### Zonal Lumens and Percentages

Zone	Lumens	% Lamp	% Luminaire
0-30	763	12.73	19.09
0-40	1214	20.24	30.35
0-60	1923	32.06	48.08
0-90	2634	43.92	65.87
40-90	1420	23.68	35.52
60-90	711	11.86	17.78
90-180	1365	22.76	34.13
0-180	4000	66.67	100.0

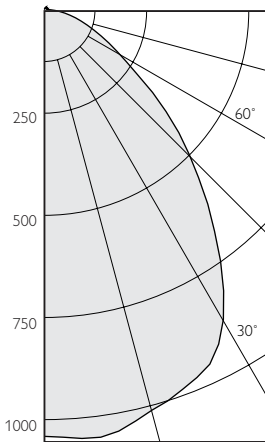
Certified test report# 2642FR  
Computed by LSI program  
\*\*TEST-LITE\*\* SC = 1.3

Prepared For: Lightolier  
Fall River, MA

\*\* Efficiency = 66.7% \*\*

### 2641FR

Amber Glass Reflector Cat.# 41285U/42AB  
85W CFL, Lumen Rating = 6000 Lms.



#### Candlepower Summary

Angle	Mean CP	LMS.	Angle	Mean	LMS.
0	1033		90	7	
5	1042	99	95	6	7
10	1036		100	7	
15	1004	285	105	7	8
20	978		110	7	
25	947	433	115	8	8
30	866		120	8	
35	743	466	125	8	7
40	615		130	8	
45	495	385	135	8	6
50	384		140	7	
55	275	255	145	7	4
60	203		150	6	
65	151	153	155	5	2
70	110		160	3	
75	78	83	165	3	1
80	50		170	1	
85	26	30	175	0	0
90	7		180	0	

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

#### Coefficients of Utilization

Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50		
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%										
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%										
0	.44	.44	.44	.44	.43	.43	.41	.41	.39	.39	.36
1	.41	.40	.39	.37	.39	.37	.37	.35	.36	.34	.32
2	.38	.36	.34	.32	.35	.32	.34	.31	.33	.30	.29
3	.36	.32	.30	.28	.32	.28	.31	.27	.30	.27	.26
4	.33	.30	.27	.25	.29	.25	.28	.24	.27	.25	.23
5	.31	.27	.24	.22	.27	.22	.26	.22	.25	.21	.20
6	.29	.25	.22	.20	.24	.20	.23	.19	.23	.19	.18
7	.27	.22	.19	.18	.22	.17	.21	.17	.21	.17	.16
8	.25	.20	.18	.16	.20	.16	.20	.16	.19	.15	.15
9	.23	.19	.16	.14	.18	.14	.18	.14	.18	.14	.13
10	.22	.17	.14	.13	.17	.13	.17	.13	.16	.12	.12

Determined In Accordance With Current IES Published Procedures  
Luminaire Input Watts = 91.0

#### Zonal Lumens and Percentages

Zone	Lumens	% Lamp	% Luminaire
0-30	816	13.61	36.59
0-40	1282	21.38	57.48
0-60	1922	32.05	86.16
0-90	2188	36.48	98.07
40-90	905	15.10	40.60
60-90	265	4.43	11.91
90-180	43	.72	1.93
0-180	2231	37.19	100.0

Certified test report# 2641FR  
Computed by LSI program  
\*\*TEST-LITE\*\* SC = 1.2

Notes: Amber Glass and Cobalt Blue Glass have the same Photometrics.

Prepared For: Lightolier  
Fall River, MA

\*\* Efficiency = 37.2% \*\*

