

Complete fixture consists of: Power Head, Reflector, and Suspension. Select each separately

Reflector/Refractor Power Head: Powder Coated Textured Dark Grey					
Cat. No	Cat. No	Lamp	Watts	Volts	Options
40431 Semi Specular, Anodized Reflector	406371	Incandescent A21	150	120	Not App.
40432 Acrylic Refractor	4073U3	CFL Triple Tube	26/32/42	120-277V	MX1, MX2, DA, E3
	407370U	CFL Triple Tube	70	120-277V	MX1, MX2, E3
	407385U	CFL Triple Tube	85	120-277V	Not App.
	4083100EU	Metal Halide ED17 (Open Rated)	100	120-277V	N/A
	4083150EU	Metal Halide ED17 (Open Rated)	150	120-277V	N/A

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

Remove U or U3 from Cat. No. & add Suffix

Note: For CFL unit with integrated Emergency Battery Pack (EM) Option refer to Specification Sheet number P-EM for Cat. No. ordering guide and specification data.

Suspension			Optional Extension Kits			Reflector/Refractor Opt.		
Cat. No	Color	Description	Cat. No.	Color	Description	Cat. No.	Description	Used With
404SKG	Grey	Cable/Cord & Cable/Coiled Cord, 120" Length	404EXT300*	Grey	25' Extension Cable/Cord Kit	431G	Industrex® Glass Lens	40431
404SG5	Grey	5-Wire Straight Cord/Cable	404EXT300G5**	Grey	25' 5-wire Extension Cable/Cord Kit	432G	Industrex® Glass Lens	40432
404S36	Grey	36" Length 5/8" Stem				432A	Flat Acrylic Lens	40432
404S60	Grey	60" Length 5/8" Stem				404TRM16	16" Trim Ring	40431/4032
404S120	Grey	120" Length 5/8" Stem						
4912CTCGR	Grey	Direct to Ceiling Kit						
404GLS	Grey	Track Mounting Kit						

* Use with Standard Cord Suspension Kit
 **Dali requires a 5-wire suspension

Features

- 1. Reflector/Refractor:** Semi-specular high purity anodized aluminum, 16 gauge, iridescent-free finish. Refractor; injection molded acrylic, UV stabilized.
- 2. Power Head Housing:** Two-piece extruded aluminum. Removable door allows for ease of installation and servicing. Dark Gray textured powder coat finish.
- 3. Suspension:** Cable/Cord: 1/16" Stainless Steel/SJT 18-3, Grey or Black. Cable/Coiled Cord: 1/16" Stainless Steel/SJT 18-3, Grey or Black. Stem: 3/4" steel tubing and canopy with 35 degree swivel hanger, Grey-or Black Finish.
- 4. Shielding Options:** Industrex® Glass Lens or Acrylic Lens.

Labels

cULus listed suitable for damp locations.

Industrex® is a registered trademark of AFG Industries, Inc.

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

Lamping (by others)

Compact Fluorescent:

General Electric	Osram/Sylvania	Philips
(1) 26W Triple Tube 4-Pin (Amalgam) Compact Fluorescent Lamp F26TBX/* /A/4P	CF26DT/E/IN/*	PL-T26W/* /4P
(1) 32W Triple Tube 4-Pin (Amalgam) Compact Fluorescent Lamp F32TBX/* /A/4P	CF32DT/E/IN/*	PL-T32W/* /4P
(1) 42W Triple Tube 4-Pin (Amalgam) Compact Fluorescent Lamp F42TBX/* /A/4P	CF42DT/E/IN/*	PL-T42W/* /4P
(1) 70W Triple Tube 4-Pin (Amalgam) Compact Fluorescent Lamp F70QBX/* /A/4P/EOL	CF70DT/E/IN/*	N/A
(1) 85W Triple Tube 4-Pin (Amalgam) Compact Fluorescent Lamp N/A	N/A	PL-H85W/* /4P

* Manufacturers' color temperature designation.

Metal Halide:

General Electric	Osram/Sylvania	Philips
(1) 100W Ceramic Metal Halide ED17 Lamp MXR100/C/U/MED/O	MCP100/C/U/MED/*	MCH100/C/UMP*
(1) 150W Ceramic Metal Halide ED17 Lamp MXR150/C/U/MED/O	MCP150/C/U/MED/*	MCH150/C/UMP*

* Manufacturers' color temperature designation.

Electrical

Lampholders:

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

Incandescent:
Medium Base, Porcelain, Nickel Plated Screw Shell

Ballast: Fluorescent: Electronic

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

Power Factor >.98, Ballast Factor .98, THD <10%
Minimum Starting Temperature: 0°F

Metal Halide: Electronic, High Power Factor

	100 Watt ANSI Code M-90		150 Watt ANSI Code M-102	
Voltage	120	277	120	277
Total Input Watts	110	110	167	167
Max. Line Current (Amps)	0.94	0.42	1.4	0.6

Minimum starting Temperature: +5°F

Job Information	Type:
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Application Data

Multiple Units (32W Triple Tube CFL)			
Spacing on Center	Height to Lighted Plane	Initial Foot-candles	Watts Per Sq. Ft.
6'	6'	64	1.00
	12'	55	
8'	6'	36	0.56
	12'	31	
10'	6'	23	0.36
	12'	20	

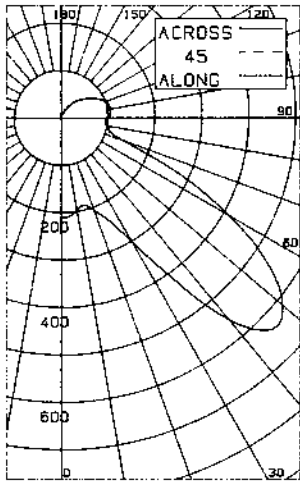
Based on 60" x 60" room with 80% ceiling cavity, 50% wall and 20% floor reflectances. Height is from bottom of fixture to lighted plane.

Illuminance (FC) Multipliers		
For Incandescent:	For Compact Fluorescent:	For Metal Halide:
100 Watt = 0.7	26 Watt = 0.7	100 Watt = 3.5
150 Watt = 1.2	42 Watt = 1.3	150 Watt = 5.2

Spacing Ratio = 2.8 32W Triple Tube CFL

CERTIFIED TEST REPORT NO. 0553FR
COMPUTED BY LSI PROGRAM **TEST-LITE**

LIGHTOLIER PENDANT DOWNLIGHT FIXTURE CAT. #40432
16 1/4" DIA. CLEAR ACRYLIC REFLECTOR
1-32W PLT TRIPLE TUBE PHILIPS LAMP. LUMEN RATING = 2400 LMS.
ENERGY SAVINGS BALLAST, 120 VAC



CANDLEPOWER SUMMARY					
ANGLE	MEAN CP	LMS.	ANGLE	MEAN CP	LMS.
0	211	90	90	101	
5	208	20	95	105	115
10	197	100	107		
15	190	54	105	105	112
20	208	110	101		
25	237	110	115	92	92
30	303	120	82		
35	413	259	125	71	63
40	555	130	60		
45	631	488	135	51	40
50	615	140	41		
55	536	481	145	30	19
60	411	150	21		
65	273	271	155	14	6
70	141	160	10		
75	106	112	165	7	2
80	98	170	7		
85	94	103	175	6	1
90	101	180	6		

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	183	7.65	7.82
0-40	443	18.46	18.87
0-60	1412	58.85	60.16
0-90	1898	79.09	80.85
40-90	1455	60.63	61.98
60-90	485	20.24	20.70
90-180	449	18.73	19.15
0-180	2347	97.82	100.00

PREPARED FOR: LIGHTOLIER
FALL RIVER, MA
DATE: OCT 13, 1998

** EFFICIENCY = 97.8% **

TESTED ACCORDING TO IES PROCEDURES. TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE.

Coefficients Of Utilization 32W Triple Tube CFL

% EFFECTIVE CEILING CAVITY REFLECTANCE

ROOM CAVITY RATIO	% WALL REFLECTION															
	80			70			50			30			10			0
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
1	.96	.91	.87	.92	.88	.84	.84	.81	.78	.77	.75	.72	.71	.69	.67	.64
2	.83	.76	.70	.80	.73	.68	.73	.68	.63	.67	.63	.59	.62	.58	.55	.52
3	.72	.63	.57	.69	.61	.55	.63	.57	.52	.58	.53	.48	.53	.49	.45	.42
4	.62	.53	.47	.60	.52	.45	.55	.48	.43	.50	.45	.40	.46	.42	.38	.35
5	.54	.45	.38	.52	.43	.37	.48	.40	.35	.44	.37	.33	.40	.35	.31	.28
6	.47	.37	.31	.45	.36	.30	.41	.34	.28	.37	.31	.26	.34	.29	.25	.22
7	.40	.31	.25	.38	.30	.24	.35	.28	.22	.32	.26	.21	.29	.24	.19	.17
8	.35	.26	.20	.34	.25	.19	.31	.23	.18	.28	.22	.17	.26	.20	.16	.13
9	.32	.22	.16	.30	.21	.16	.27	.20	.15	.25	.18	.14	.22	.17	.12	.10
10	.27	.19	.13	.26	.18	.13	.24	.17	.12	.22	.15	.11	.20	.14	.10	.08

20% FLOOR CAVITY REFLECTANCE

Coefficients Of Utilization 150W ED17 MH

% EFFECTIVE CEILING CAVITY REFLECTANCE

ROOM CAVITY RATIO	% WALL REFLECTION															
	80			70			50			30			10			0
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
1	.93	.89	.85	.90	.86	.82	.83	.80	.77	.76	.74	.72	.70	.68	.67	.63
2	.82	.75	.70	.78	.72	.68	.72	.68	.63	.67	.63	.60	.62	.59	.56	.53
3	.71	.63	.57	.68	.61	.56	.63	.57	.53	.58	.54	.50	.54	.50	.47	.44
4	.62	.54	.48	.60	.52	.46	.55	.49	.44	.51	.46	.42	.47	.43	.39	.37
5	.54	.46	.39	.52	.44	.38	.48	.42	.37	.45	.39	.35	.41	.37	.33	.30
6	.47	.39	.32	.45	.37	.31	.42	.35	.30	.39	.33	.28	.36	.31	.27	.24
7	.41	.32	.26	.39	.31	.25	.36	.29	.24	.33	.27	.22	.31	.25	.21	.19
8	.36	.27	.21	.34	.26	.21	.32	.25	.20	.29	.23	.18	.27	.21	.17	.15
9	.31	.23	.17	.30	.22	.17	.28	.21	.16	.26	.19	.15	.23	.18	.14	.12
10	.28	.20	.14	.26	.19	.14	.24	.18	.13	.22	.16	.12	.21	.15	.11	.09

20% FLOOR CAVITY REFLECTANCE

Job Information	Type:
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Application Data

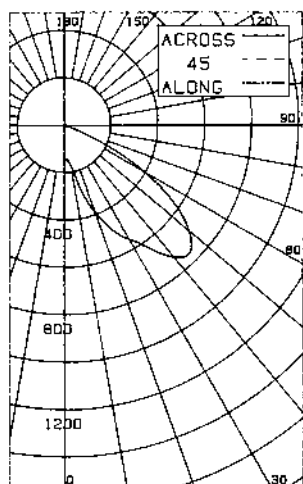
Multiple Units (32W Triple Tube, CFL)			
Spacing on Center	Height to Lighted Plane	Initial Foot-candles	Watts Per Sq. Ft.
6'	6'	59	1.00
	12'	53	
8'	6'	33	0.56
	12'	30	
10'	6'	21	0.36
	12'	19	

Based on 60" x 60" room with 80% ceiling cavity, 50% wall and 20% floor reflectances. Height is from bottom of fixture to lighted plane.

Spacing Ratio = 3.2 32W Triple Tube CFL

CERTIFIED TEST REPORT NO. 0552FR
COMPUTED BY LSI PROGRAM **TEST-LITE**

LIGHTOLIER PENDANT DOWNLIGHT FIXTURE CAT. #40431
16 1/4" DIA. SEMI-SPECULAR FINISH REFLECTOR
1-32W PLT TRIPLE TUBE PHILIPS LAMP. LUMEN RATING = 2400 LMS.
ENERGY SAVINGS BALLAST, 120 VAC



CANDLEPOWER SUMMARY

ANGLE	MEAN CP	LUMENS
0	142	
5	148	15
10	178	
15	285	81
20	395	
25	487	223
30	557	
35	635	401
40	728	
45	759	569
50	692	
55	568	498
60	393	
65	191	202
70	40	
75	8	16
80	3	
85	1	2
90	1	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	318	13.27	15.88
0-40	719	29.93	35.88
0-60	1786	74.44	89.06
0-90	2006	83.58	100.00
40-90	1286	53.59	64.12
60-90	219	9.14	10.94
90-180	0	0.00	0.00
0-180	2006	83.58	100.00

PREPARED FOR:
LIGHTOLIER
FALL RIVER, MA
DATE:
OCT 13, 1998

** EFFICIENCY = 83.6% **

TESTED ACCORDING TO IES PROCEDURES. TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE.

Illuminance (FC) Multipliers

For Incandescent:	For Compact Fluorescent:	For Metal Halide:
100 Watt = 0.7 150 Watt = 1.2	26 Watt = 0.7 42 Watt = 1.3	100 Watt = 3.5 150 Watt = 5.2 175 Watt = 6.5

Coefficients Of Utilization 32W Triple Tube CFL

% EFFECTIVE CEILING CAVITY REFLECTANCE

ROOM CAVITY RATIO	80						70						50						30						10						0					
	% WALL REFLECTION						% WALL REFLECTION						% WALL REFLECTION						% WALL REFLECTION						% WALL REFLECTION											
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10												
1	.89	.86	.83	.87	.84	.82	.84	.81	.79	.80	.79	.77	.78	.76	.75	.73																				
2	.79	.74	.70	.78	.73	.69	.75	.71	.68	.72	.69	.66	.70	.67	.65	.63																				
3	.69	.63	.58	.68	.62	.58	.66	.61	.57	.64	.59	.56	.62	.58	.55	.53																				
4	.61	.54	.49	.60	.54	.49	.58	.52	.48	.56	.51	.47	.54	.50	.47	.45																				
5	.54	.46	.41	.53	.46	.41	.51	.45	.40	.49	.44	.40	.48	.43	.39	.38																				
6	.47	.39	.34	.46	.39	.33	.44	.38	.33	.43	.37	.33	.41	.36	.32	.31																				
7	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.36	.30	.26	.24																				
8	.35	.28	.22	.34	.27	.22	.33	.27	.22	.32	.26	.22	.31	.26	.22	.20																				
9	.31	.23	.18	.30	.23	.18	.29	.23	.18	.28	.22	.18	.27	.22	.18	.16																				
10	.27	.20	.15	.26	.20	.15	.25	.19	.15	.25	.19	.14	.24	.18	.14	.13																				

20% FLOOR CAVITY REFLECTANCE

Coefficients Of Utilization 175W ED17 MH

% EFFECTIVE CEILING CAVITY REFLECTANCE

ROOM CAVITY RATIO	80						70						50						30						10						0					
	% WALL REFLECTION						% WALL REFLECTION						% WALL REFLECTION						% WALL REFLECTION						% WALL REFLECTION											
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10												
1	.92	.89	.87	.90	.88	.85	.87	.84	.83	.83	.82	.80	.80	.79	.78	.76																				
2	.83	.78	.74	.81	.77	.73	.78	.75	.72	.76	.73	.70	.73	.71	.69	.67																				
3	.73	.67	.63	.72	.67	.62	.70	.65	.61	.68	.64	.60	.66	.62	.59	.57																				
4	.65	.59	.54	.64	.58	.53	.62	.57	.53	.60	.56	.52	.59	.55	.51	.50																				
5	.58	.51	.45	.57	.50	.45	.55	.49	.45	.54	.48	.44	.52	.48	.44	.42																				
6	.51	.43	.38	.50	.43	.38	.48	.42	.37	.47	.41	.37	.45	.40	.37	.35																				
7	.44	.36	.31	.43	.36	.31	.42	.35	.30	.40	.34	.30	.39	.34	.30	.28																				
8	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.34	.29	.25	.23																				
9	.33	.26	.20	.33	.25	.20	.33	.25	.20	.31	.24	.20	.30	.24	.20	.19																				
10	.29	.21	.16	.28	.21	.16	.27	.21	.16	.26	.20	.16	.26	.20	.16	.14																				

20% FLOOR CAVITY REFLECTANCE

Job Information Type: