

Lighting Specifications and Cutsheets

**Law Offices of
Patrick and Christopher**

T538-Theatre Consulting
Cynthia Murphy

Fixture Schedule

Type	Description	Catalog #	Lamp	Wattage
C1	2' linear fluorescent undercabinet Task Light with electronic ballast	Lightolier PC-2-P-13-T2-120-PT-CPB	Sylvania FM13/841	13W
P1	Compact fluorescent surface mounted pendant with amber colored glass shade and electronic ballast	Lithonia Gotham PDPF-26TRT-4AG-120-SB-S-SM	Phillips PL-T26W/841/ 4P/ALTO	26W
R1	Asymmetrical linear fluorescent wall washer with electronic ballast	Peerless LWR9-G-1-28T5HO-HOL-U2-120-GEB10-L/LP	Phillips F24T5/841/HO/A LTO	24W
R2	2'X2' fluorescent downlight with perforated basket and electronic ballast	Neoray 244-R-2T5-STG-120-EB-SI-SP-EM	Phillips F54T5/841/HO/A LTO	108W
R3	6" Aperture Compact Fluorescent round recessed downlight with clear glass lens and electronic ballast	Lithonia Gotham AF-1/18TRT-6WTR-LD-CGL-120-GEB10-ELR	Phillips PL-T18W/841/ 4P/ALTO	18W
R4	6" Aperture Compact Fluorescent round recessed wall-washer with clear glass lens and electronic ballast	Lithonia Gotham AFW-1/32TRT-6WTR-LD-CGL-120-GEB10	Phillips PL-T32W/841/ 4P/ALTO	32W
R5	6" Aperture Compact Fluorescent round recessed corner wall-washer with clear glass lens and electronic ballast	Lithonia Gotham AFW-1/32TRT-6WTR-LD-CGL-120-GEB10-CWW	Phillips PL-T32W/841/ 4P/ALTO	32W

Task Lighting **Pristine™ Series**

Features

- Architecturally pleasing rounded slim profile only 3/4" deep x 4-3/4" wide.
- Provides median foot candle level of 55 on 2' x 5' desk top.
- Prismatic acrylic spread lens.
- Flush push button switch.
- Electronic program start <10 THD ballast.
- Lamp T2 13W, CRI=80, color temperature 3500K, lamp is included.
- Nine foot straight black cord.
- Baked pewter polyester enamel finish.
- Meets New York City requirements for task lighting.

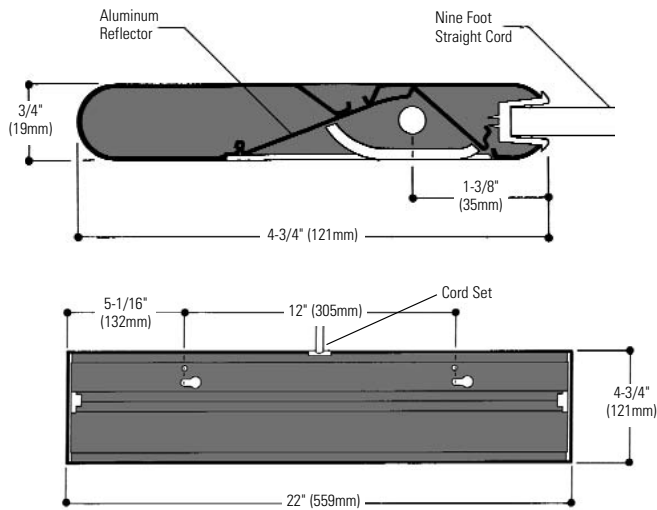


Features

Architecturally pleasing rounded slim profile only 3/4" deep x 4-3/4" wide.



Dimensions



Job Information Type:

Job Name:

Cat. No.:

Lamp(s):

Volts/Ballast:

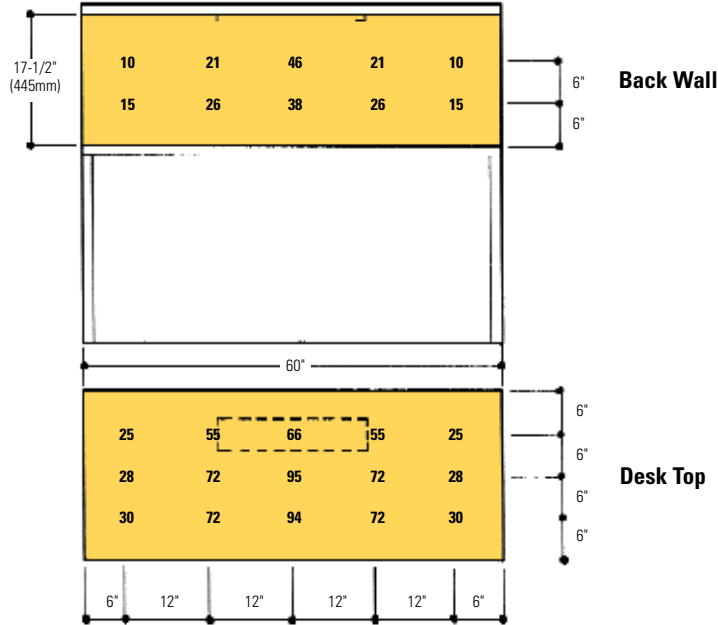
Lightolier a Genlyte Thomas Company www.lightolier.com
 Technical Information: (978) 657-7600 • Fax (978) 658-0595
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
 We reserve the right to change details of design, materials and finish.
 Copyright 2004 Lightolier **Section 5/Folio H150-15**

LIGHTOLIER®



Task Lighting **Pristine™ Series**

Pristine Footcandle Readings



Ordering Information

Explanation of Catalog Number. Example: PC2P13T2120PTCPB

PC

Pristine Series:
Task Lighting

2

Length:
2=22"

P

Finish:
Pewter

13

Lamp:
13 Watt

T2

Lamp Type:
T2=835K installed with fixture

120

Voltage:
120

PT

Ballast:
PT = Elec. Program Start <10 THD for Linear T2 Lamp

CPB

9' Black cord & plug

Options:

Add appropriate suffix to catalog no. ie. **(CH)**

Options/Accessories

Chicago Plug: Suffix: **CH**.

Dimming: Consult factory.

Specifications

Materials: Chassis parts are die-formed cold rolled steel.

Lens: Ribbed acrylic.

Reflector: Aluminum.

End Caps: Polycarbon.

Lamp: T2, 13 watt CRI=80, color temperature 3500K.

Finish: Cavity—pewter baked enamel, 85% reflectance. Phosphate undercoating.

Chassis exterior—pewter baked enamel.

Electrical: Thermally protected class "P" ballast C.B.M. approved, sound rated A, <10 THD, non PCB.

Labels: UL and ULc Listed.

Job Information

Type:

Lightolier a Genlyte Thomas Company www.lightolier.com
Technical Information: (978) 657-7600 • Fax (978) 658-0595
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
Copyright 2004 Lightolier **Section5/Folio H150-15**

LIGHTOLIER®

FEATURES

DECORATIVE HOUSING

- Durable, heavy-gauge aluminum housing. Textured polyester powder paint finish available in Matte Black or Satin Silver.

DECORATIVE ELEMENT

- Four configurations allow customization suitable in any space - black polyester powder paint.*
- No Ring (NR): Clean, simple form - no decorative element.
 - Soft Ring* (S): Subtle, formed aluminum band.
 - Stacked Rings (C): Three black acrylic rings.
 - Gear* (G): Precision-formed from solid aluminum.

OPTICAL SYSTEM

- Reflector System – Self-flanged, semi-specular or matte-diffuse reflector. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image and smooth transition from top of reflector to bottom. Reflector flange visually integrates with housing.

MOUNTING OPTIONS

- RC120 - 120" black cord is provided for electrical connection between luminaire and canopy. Canopy mounts directly to 4" square or octagonal junction box.
- SM - Luminaire is mounted directly to the surface-mounted canopy. Canopy mounts directly to 4" square or octagonal junction box.
- WM - Wall mounted luminaire provided with diminutive arm and ballast enclosure. Enclosure mounts directly to 4" octagonal junction box.
- See page TECH-181 for more information.

ELECTRICAL SYSTEM

- Rugged aluminum lampholder housing designed for positive lamp positioning.
- Vertically mounted, four-pin positive-latch thermoplastic socket.
- Class P, thermally protected high power factor ballast.

LISTING

- Fixtures are UL Listed for damp locations. Listed and labeled to comply with Canadian Standards.

Type Catalog number

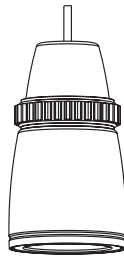
.....

Compact Fluorescent Surface Downlights

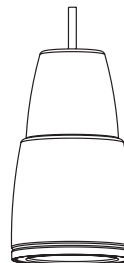
4" PDPF

Elevations™

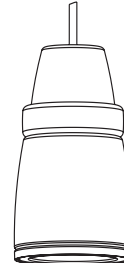
Performance Downlight Pendant Vertical Triple Tube Lamp



Gear (G)



No Ring (NR)



Soft Ring (S)



Stacked Rings (C)

All dimensions are inches (centimeters).

Aperture: 4-5/16 (11.0) Height: 10-1/4 (26.1)
 Overall Diameter: 5-7/8 (15.0)

ORDERING INFORMATION

Example: PDPF 32TRT 4AR MVOLT SSNR RC120

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line.

PDPF

Series	Wattage/Lamp	Reflector/Shade Color	Finish	Voltage	Ballast	Housing	Decorative Element ⁵	Mounting Method ⁶	Options
PDPF	18TRT	4AR Clear	(blank) Semi-specular	MVOLT²	(blank) Electronic ballast	SB Short matte black	NR No ring	RC120 Reinforced cord mount	WLP With 35°K lamp (shipped separately)
	26TRT	4BR¹ Black	LD Matte-diffuse	120	DMHL³	SS Short satin silver	S Soft ring	SM Surface mount	ELR³ Emergency battery pack
	32TRT	4PR Pewter		277	SE⁴ electronic dimming ballast		C Stacked rings	WM⁶ Wall mount	GRS⁶ Recessed mounting frame
		4UBR Umber		347	ADEZ⁴ Advance Mark10™ electronic dimming ballast		G Gear		
		4WTR Wheat							
		4WR¹ White painted							

NOTES

- 1 Not available with finishes.
- 2 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 Hz.
- 3 Available with GRS option only.
- 4 Available in 120V or 277V.
- 5 Refer to Page TECH-181 for decorative element and mounting method details.
- 6 Not available with GRS or ELR option.



GOTHAM ARCHITECTURAL DOWNLIGHTING
 1400 Lester Road, Conyers Georgia 30012
 P 800 315 4982 F 770 860 3129
 www.gothamlighting.com

PDPF 4

DLCF-165

T538-Architectural Lighting
 Cynthia Murphy

Law Offices of Patrick and Christopher

P1

1 of 3

4" PDPF Elevations™ Performance Downlight Pendant Vertical Triple Tube Lamp

Distribution curve Distribution data Output data Coefficient of utilization Illuminance Data at 30" Above Floor for a Single Luminaire

PDPF 18TRT 4AR, (1) F18TBX/SPX35/4P lamp, 1200 rated lumens, 1.1 s/mh, Test No. LTL9877

90° 80° 70° 60° 50° 40° 30° 20° 10° 0°	Distribution data			Output data			Coefficient of utilization						Illuminance Data at 30" Above Floor for a Single Luminaire					
	From 0°	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%		70%		50% beam angle		10% beam angle				
	0°			0° - 30°			pc	50%	30%	50%	30%	50%	30%	Initial fc	fc at	fc at		
	0	402		0° - 30°	298.3	24.9	1	.49	.47	.48	.47	.46	.45	56.4°				
	5	416	40	0° - 40°	447.8	37.3	2	.45	.43	.44	.42	.43	.41	Mount at beam	Beam	Beam	Beam	
	15	399	111	0° - 60°	527.7	44.0	3	.41	.39	.41	.39	.40	.38	height	center	diameter	diameter	
	25	320	147	0° - 90°	529.5	44.1	4	.38	.36	.38	.35	.37	.35	8	13.3	5.9	6.6	
	35	241	150	90° - 180°	0.0	0.0	5	.35	.33	.35	.32	.34	.32	10	7.1	8.0	3.6	
	45	99	76	0° - 180°	529.5	*44.1	6	.33	.30	.32	.30	.32	.29	12	4.5	10.2	2.2	
	55	3	4	*E efficiency			7	.31	.28	.30	.27	.30	.27	14	3.0	12.3	1.5	
	65	1	1				8	.28	.26	.28	.25	.28	.25	16	2.2	14.5	1.1	
	75	0	0				9	.27	.24	.26	.24	.26	.23					
	85	0	0				10	.25	.22	.25	.22	.24	.22					
	90	0	0															

PDPF 26TRT 4AR, (1) F26TBK/SPX35/4P lamp, 1800 rated lumens, 1.1 s/mh, Test No. LTL9958

90° 80° 70° 60° 50° 40° 30° 20° 10° 0°	Distribution data			Output data			Coefficient of utilization						Illuminance Data at 30" Above Floor for a Single Luminaire					
	From 0°	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%		70%		50% beam angle		10% beam angle				
	0°			0° - 30°			pc	50%	30%	50%	30%	50%	30%	Initial fc	fc at	fc at		
	0	444		0° - 30°	329.2	18.3	1	.36	.35	.35	.35	.34	.33	55.8°				
	5	461	44	0° - 40°	489.0	27.2	2	.33	.32	.33	.31	.32	.30	Mount at beam	Beam	Beam	Beam	
	15	443	124	0° - 60°	587.7	32.6	3	.31	.29	.30	.29	.29	.28	height	center	diameter	diameter	
	25	352	161	0° - 90°	589.7	32.8	4	.28	.26	.28	.26	.27	.26	8	14.7	5.8	7.3	
	35	257	160	90° - 180°	0.0	0.0	5	.26	.24	.26	.24	.25	.24	10	7.9	7.9	3.9	
	45	123	91	0° - 180°	589.7	*32.8	6	.24	.22	.24	.22	.23	.22	12	4.9	10.1	2.5	
	55	5	7	*E efficiency			7	.23	.20	.22	.20	.22	.20	14	3.4	12.2	1.7	
	65	1	1				8	.21	.19	.21	.19	.20	.19	16	2.4	14.3	1.2	
	75	1	1				9	.20	.18	.19	.17	.19	.17					
	85	0	0				10	.18	.16	.18	.16	.18	.16					
	90	0	0															

PDPF 26TRT 4MB, (1) F26TBX/SPX35/4P lamp, 1800 rated lumens, 1.0 s/mh, Test No. LTL9880

90° 80° 70° 60° 50° 40° 30° 20° 10° 0°	Distribution data			Output data			Coefficient of utilization						Illuminance Data at 30" Above Floor for a Single Luminaire					
	From 0°	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%		70%		50% beam angle		10% beam angle				
	0°			0° - 30°			pc	50%	30%	50%	30%	50%	30%	Initial fc	fc at	fc at		
	0	426		0° - 30°	294.2	16.3	1	.31	.30	.30	.29	.29	.28	53.2°				
	5	427	41	0° - 40°	428.6	23.8	2	.28	.27	.28	.27	.27	.26	Mount at beam	Beam	Beam	Beam	
	15	394	110	0° - 60°	500.5	27.8	3	.26	.25	.26	.24	.25	.24	height	center	diameter	diameter	
	25	313	143	0° - 90°	501.1	27.8	4	.24	.23	.24	.22	.23	.22	8	14.1	5.5	7.0	
	35	218	134	90° - 180°	0.0	0.0	5	.23	.21	.22	.21	.22	.20	10	7.6	7.5	3.8	
	45	90	68	0° - 180°	501.1	*27.8	6	.21	.19	.21	.19	.20	.19	12	4.7	9.5	2.4	
	55	2	4	*E efficiency			7	.20	.18	.19	.18	.19	.17	14	3.2	11.5	1.6	
	65	1	1				8	.18	.16	.18	.16	.18	.16	16	2.3	13.5	1.2	
	75	0	0				9	.17	.15	.17	.15	.17	.15					
	85	0	0				10	.16	.14	.16	.14	.16	.14					
	90	0	0															

NOTES:

1. For electrical characteristics consult Technical Bulletins tab.
2. Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change without notice.
3. Consult factory of IES file for other photometric reports.

DLCF-165
©2006 Gotham, 5/06
DLCF-165.p65

gotham
An Acuity Brands Company

GOTHAM ARCHITECTURAL DOWNLIGHTING
A DIVISION OF ACUITY LIGHTING GROUP, INC.
1400 Lester Road Conyers Georgia 30012
P 800 315 4982 F 770 860 3129
www.gothamlighting.com

T538-Architectural Lighting
Cynthia Murphy

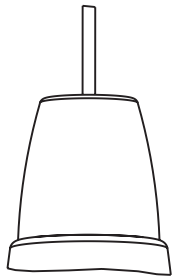
**Law Offices of
Patrick and Christopher**

P1

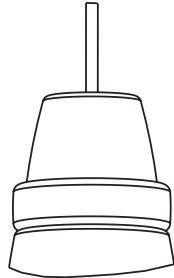
2 of 3

4" PDP

Elevations™
Performance Downlight Pendant



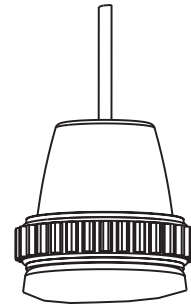
NR - No Ring



S - Soft Ring

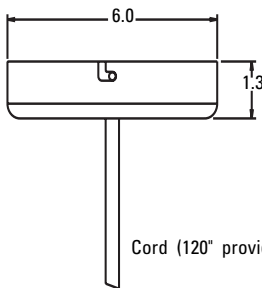


C - Stacked Rings

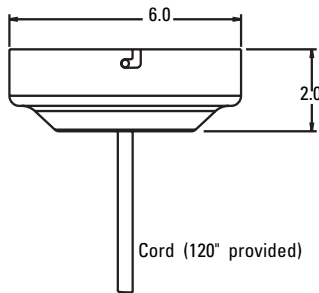


G - Gear

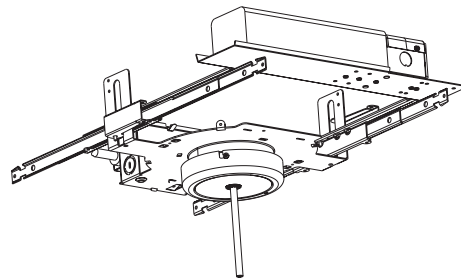
PDPA
Mounting canopy attaches
directly to J-Box
RC120



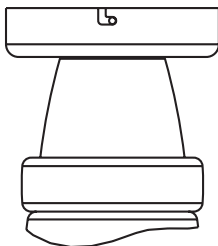
PDPF/PDPH
Mounting canopy attaches
directly to J-Box
RC120



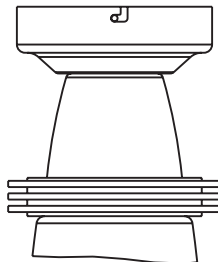
GRS
Recessed mounting
frame option
RC120



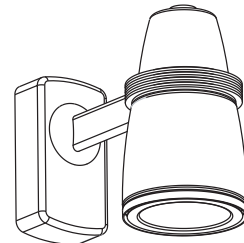
PDPA
Mounting canopy attaches
directly to J-Box
SM



PDPF/PDPH
Mounting canopy attaches
directly to J-Box
SM



Wall mount
WM



LIGHTLINE™ WALL WASH

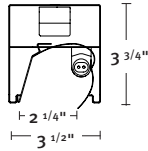
PEERLESS®

2 1/4" Aperture

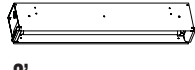
Recessed Mount Wall Wash

SPECIFICATIONS

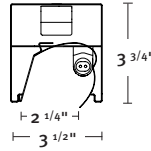
AVAILABLE FIXTURE



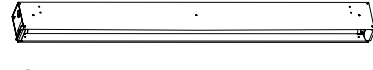
LWR9 2' T5HO/T5



2'

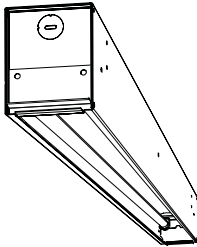


LWR9 4' T5HO/T5



4'

SPECIFICATIONS



CONSTRUCTION

Housing is formed from painted cold-rolled steel. Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with high-gloss baked enamel.

REFLECTORS

Specular asymmetric reflector system. Black metal diffuser with round holes.

ELECTRICAL

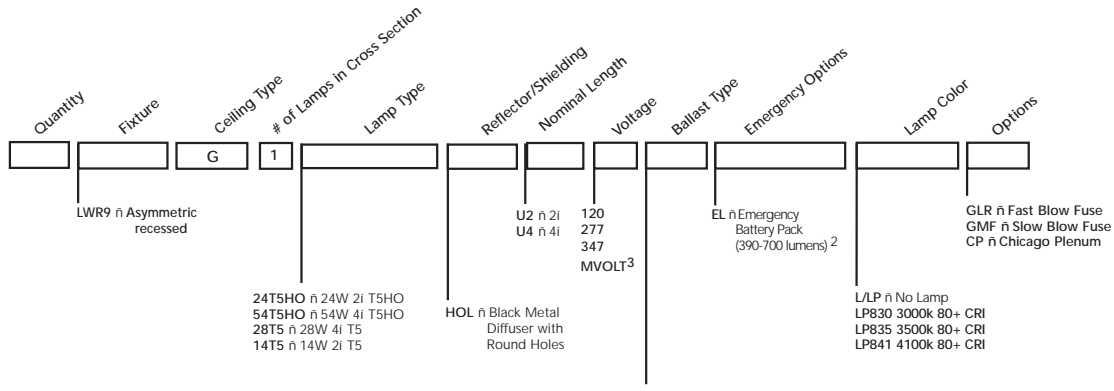
Specify 120 volt, 277 volt, or 347 volt. Non EL versions damp location labeled. UL and C-UL listed and labeled.

For special circuiting, consult factory.

FIXTURE SIZE

Nominal 2i aperture. 2i and 4i lengths available.

ORDERING LOGIC



Accessories (order separately)

DHSGS2 - Gyp-board Flange Kit 2i
DHSGS4 - Gyp-board Flange Kit 4i

- 1 Only available with 54T5HO
- 2 Only available with 28T5 & 54T5HO
- 3 Not for use when specifying battery pack

EXAMPLE:

Qty Fixture section

- 4 LWR9 G 1 54T5HO HOL U4 120 GEB10 L/LP
- 1 LWR9 G 1 14T5 HOL U2 277 GEB10 LP835

PEERLESS LIGHTING Box 2556, Berkeley, CA 94702-0556 510.845-2760 Fax 510.845-2776 www.peerless-lighting.com

© 2006 Acuity Lighting Group, Inc. All rights reserved. "Peerless" is a registered trademark of Acuity Lighting Group, Inc. and "Lightline" is a trademark of Acuity Lighting Group, Inc. These products may be covered by one or more U.S. Patents or Patents Pending. 2/06

LLWW-1

ITEM #:

T538-Architectural Lighting
Cynthia Murphy

Law Offices of
Patrick and Christopher

R1

1 of 3

LIGHTLINE™ WALL WASH

PEERLESS®

2 1/4" Aperture

Recessed Mount Wall Wash

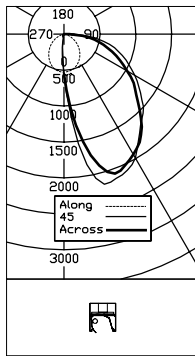
PHOTOMETRICS

1-LAMP 54W T5 HIGH-OUTPUT

1-LAMP 28W T5 HIGH-OUTPUT

FAR-FIELD PHOTOMETRY
 REPORT NUMBER: 6893
 DATE: 12-12-2005

CATALOG NUMBER: LWR9-1-54T5HO
 LUMINAIRE: 3 1/2" W X 3 3/4" H RECESSED WALL WASH WITH ASYMMETRIC-THROW
 SPECULAR REFLECTOR AND PERF. BLACK TRIM
 LAMP(S): FP54/B35/HO RATED @ 5000 LUMENS
 BALLAST: QTP-1X54HO/UNV PSN
 MOUNTING:
 LUMEN TO CANDELA RATIO USED = 9.15
 TOTAL INPUT WATTS = 60.9 AT 120.0 VOLTS
 THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.



CANDELA DISTRIBUTION				FLUX
0	45.0	90.0	135.0	180.0
0	558	558	558	558
5	1183	1020	564	276
15	2163	1896	543	48
25	2091	2010	501	32
35	1809	1832	439	22
45	1559	1468	356	22
55	1274	1184	282	17
65	990	863	160	8
75	728	570	67	1
85	343	263	4	0
90	132	77	0	0

ZONAL ZONE	LUMEN LUMENS	%LAMP	%FIXT
0-30	748	15.0	23.8
0-40	1279	25.6	40.8
0-60	2333	46.7	74.4
0-90	3138	62.8	100.0
90-180	0	0.0	0.0
0-180	3138	62.8	100.0

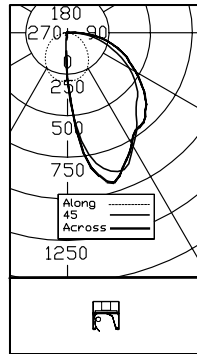
TOTAL LUMINAIRE EFFICIENCY = 62.8 %
 CIE TYPE - DIRECT

APPROVED BY:

BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE.
 FOR DETAIL EXPLANATIONS, PLEASE SEE PEERLESS PUBLICATION # A62.

FAR-FIELD PHOTOMETRY
 REPORT NUMBER: 6932
 DATE: 12-12-2005

CATALOG NUMBER: LWR9-1-24T5HO
 LUMINAIRE: 3 1/2" W X 3 3/4" H RECESSED WALL WASH WITH ASYMMETRIC-THROW
 SPECULAR REFLECTOR AND PERF. BLACK TRIM
 LAMP(S): FP24/B35/HO RATED @ 2200 LUMENS
 BALLAST: QTP235-24T5HO/UNV PSN
 MOUNTING:
 LUMEN TO CANDELA RATIO USED = 9.15
 TOTAL INPUT WATTS = 26.6 AT 120.0 VOLTS
 THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.



CANDELA DISTRIBUTION				FLUX
0	45.0	90.0	135.0	180.0
0	279	279	279	279
5	580	543	296	106
15	927	845	283	19
25	845	871	261	13
35	718	723	226	9
45	662	588	178	7
55	543	493	125	7
65	408	358	68	2
75	286	226	22	0
85	134	93	0	0
90	49	20	0	0

ZONAL ZONE	LUMEN LUMENS	%LAMP	%FIXT
0-30	331	15.0	25.4
0-40	550	26.0	42.2
0-60	988	44.9	75.8
0-90	1303	59.2	100.0
90-180	0	0.0	0.0
0-180	1303	59.2	100.0

TOTAL LUMINAIRE EFFICIENCY = 59.2 %
 CIE TYPE - DIRECT

APPROVED BY:

BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE.
 FOR DETAIL EXPLANATIONS, PLEASE SEE PEERLESS PUBLICATION # A62.

LLWW-2

PEERLESS LIGHTING Box 2556, Berkeley, CA 94702-0556 510.845-2760 Fax 510.845-2776 www.peerless-lighting.com

© 2006 Acuity Lighting Group, Inc. All rights reserved. "Peerless" is a registered trademark of Acuity Lighting Group, Inc. and "Lightline" is a trademark of Acuity Lighting Group, Inc. These products may be covered by one or more U.S. Patents or Patents Pending. 2/06

ITEM #:

T538-Architectural Lighting
 Cynthia Murphy

Law Offices of
 Patrick and Christopher

R1

2 of 3

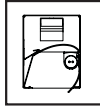
LIGHTLINE™ WALL WASH

PEERLESS®

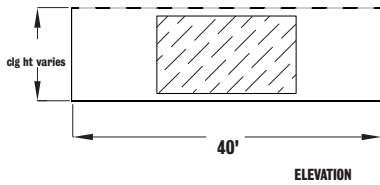
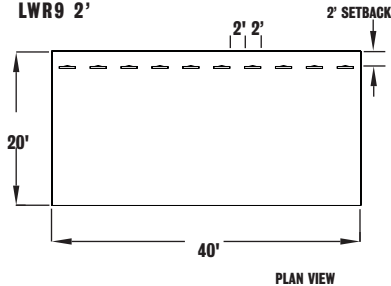
2 1/4" Aperture

Recessed Mount Wall Wash

(10) 2' UNITS, 4' ON CENTER SPACING



LWR9 2'



REFLECTANCES: 80/50/20

all values are initial LLF = 1 (BF=1 assumed)

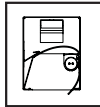
	CEILING HEIGHT				
	8i	9i	10i	11i	12i
Average Illuminance	37fc	31fc	31fc	26fc	26fc
Maximum Wall Illuminance	61 fc	62fc	60fc	62fc	60fc
Minimum Wall Illuminance	15 fc	12fc	9fc	8fc	7fc
Uniformity	4.1 : 1	5.2 : 1	6.7 : 1	7.8 : 1	8.6 : 1

(1) FP24/835/HO RATED 2200 LUMENS

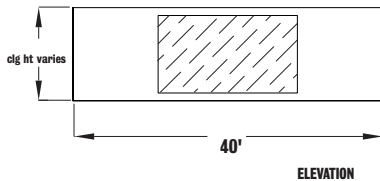
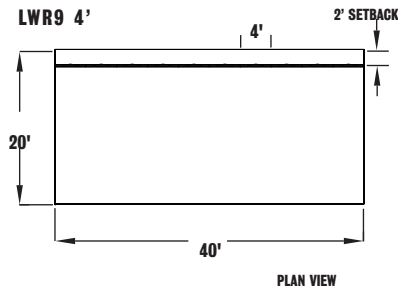
Use a multiplier of 0.68 for standard T5

Calculation results based on Visual 2.2

(10) 4' UNITS, CONTINUOUS ROWS



LWR9 4'



REFLECTANCES: 80/50/20

all values are initial LLF = 1 (BF=1 assumed)

	CEILING HEIGHT				
	8i	9i	10i	11i	12i
Average Illuminance	74fc	64fc	63fc	54fc	54fc
Maximum Wall Illuminance	123 fc	126fc	122fc	126fc	122fc
Minimum Wall Illuminance	32 fc	26fc	21fc	18fc	15fc
Uniformity	3.8 : 1	4.8 : 1	5.8 : 1	7.0 : 1	8.1 : 1

(1) FP54/835/HO RATED 4850 LUMENS

Use a multiplier of 0.58 for standard T5

Calculation results based on Visual 2.2

PEERLESS LIGHTING Box 2556, Berkeley, CA 94702-0556 510.845-2760 Fax 510.845-2776 www.peerless-lighting.com

© 2006 Acuity Lighting Group, Inc. All rights reserved. "Peerless" is a registered trademark of Acuity Lighting Group, Inc. and "Lightline" is a trademark of Acuity Lighting Group, Inc. These products may be covered by one or more U.S. Patents or Patents Pending. 2/06

LLWW-3

ITEM #:

NEO-RAY™

DESCRIPTION

Neo-Ray's complete family of perforated center basket luminaires which will introduce style and comfort into any interior. Four luminaire sizes and a variety of lamp types provide creative freedom when designing a new lighting layout. From the largest open office plan to the tightest corridor, a cohesive design theme is maintained throughout the lighting plan. Attention to detail is apparent in the minimal 1/4" fixture trim. An optional slotted perforated metal diffuser with narrow linear slots is available, which creates a unique glowing appearance of positive and negative space.

Catalog #		Type	
Project		Date	
Comments			
Prepared by			

SPECIFICATION FEATURES

A ... Construction

20-gauge steel housing (2'x2' or 2'x4').

B ... Shielding

Perforated metal panels backed by a white acrylic diffuser.

C ... Electrical

120, 277, 347 or Universal Voltage electronic ballast. Fixtures and electrical components certified to UL and CUL standards.

D ... Finish

Durable, low gloss, white, powder coated acrylic finish.

Mounting

Recessed. Specify: (ETG) 15/16" Flat Exposed T-grid, (STG) 9/16" Screw Slot T-grid, (SR) Sheet Rock (Flanged), (FSR) Sheet Rock (Flangeless), (FTG) 9/16" Flat Exposed T-grid.



Fenestra

242

244

1, 2 & 3T8

1, 2 & 3T5

1, 2 & 3T5HO

Long Twin Tube

Recessed

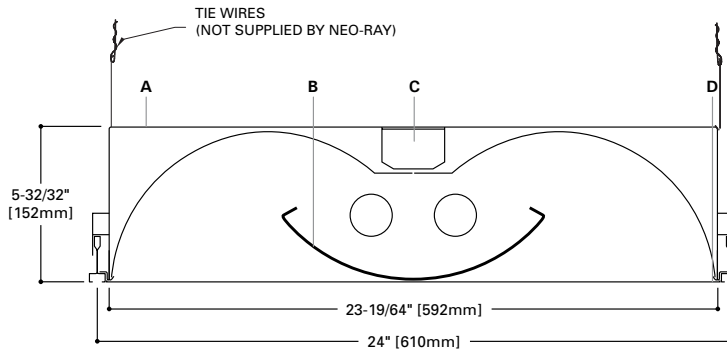
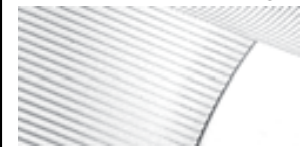
Direct-Indirect

Light Distribution:

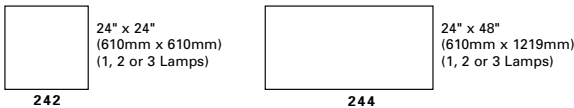
Indirect - 0.0%

Direct - 100.0%

TANNENBAUM



STANDARD LUMINAIRE PLAN



ORDERING INFORMATION

Sample Number: S242R/2BX50W/SR/1EB-DU

Series 242 - 2' x 2' 244 - 2' x 4'	Options ¹ C - Chicago Plenum A - Air Return T - Tannenbaum	Mounting R - Recessed	Number of Lamps 1 - 1 Lamp 2 - 2 Lamps 3 - 3 Lamps	Ceiling Type ETG - Exposed T-Grid STG - Slot T-Grid SR - Sheet Rock (Flanged)	Voltage ² 1 - 120V 2 - 277V 3 - 347V	Ballast EB - Electronic Ballast DB - Dimming Ballast	Perforation SP - Slotted SCS - Center Slots
			Lamp Type T8 - T8 T5 - T5 T5HO - T5HO BX40W - BX40W BX50W - BX50W	Switching Options SI - Single Switching DU - Double Switching		Emergency EM - Emergency Pack	

Notes: 1 Can be left blank or more than one option may be available, consult factory.
 2 All options available. Please consult your Cooper Lighting representative for availability.
 Specifications and Dimensions subject to change without notice.
 www.cooperlighting.com Consult your representative for additional options and finishes.

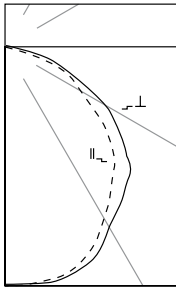
ADN041918
 02/05/2008 1:13:38 PM

T538-Architectural Lighting
 Cynthia Murphy

Law Offices of
 Patrick and Christopher

R2

1 of 2



244-3T8
(3) F32T8/835/RS
2950 Lumens

Efficiency 66.0%

Test Report
#11376.0

(Consult factory for I.E.S. data not included within this report.)

Coefficients of Utilization

rc	Effective floor cavity reflectance																
	80%		70%		50%		30%		10%		0%						
	rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0	
RCR																	
0	79	79	79	79	77	77	77	77	73	73	73	70	70	70	67	67	67
1	73	70	67	65	71	68	66	64	65	64	62	63	61	60	61	59	58
2	67	62	57	54	65	60	57	53	58	55	52	56	53	51	54	52	50
3	61	55	50	46	60	54	49	45	52	48	44	50	47	44	48	45	43
4	56	49	43	39	55	48	43	39	46	42	38	45	41	38	43	40	37
5	51	43	37	33	50	42	37	33	41	36	32	40	35	32	38	35	32
6	47	38	33	29	46	38	32	28	37	32	28	36	31	28	35	31	28
7	43	35	29	25	42	34	29	25	33	28	25	32	28	24	31	27	24
8	40	31	25	21	39	30	25	21	30	25	21	29	24	21	28	24	21
9	37	28	22	19	36	27	22	18	26	22	18	26	21	18	25	21	18
10	34	25	20	16	33	25	20	16	24	19	16	23	19	16	23	19	16

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1639	18.5	28.1
0-40	2664	30.4	45.6
0-60	4729	53.4	81.0
0-90	5840	66.0	100.0
90-180	0	0.0	0.0
0-180	5840	66.0	100.0

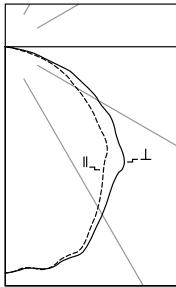
Total Luminaire Efficiency = 66.0%

Luminance Data

Angle in Deg	0-Deg cd/sm	45-Deg cd/sm	90-Deg cd/sm
45	2678	2917	3088
55	2349	2756	2940
65	1980	1505	2574
75	1583	1694	1906
85	1026	1192	1307

Candela

Angle	Along II	45°	Across ⊥
0	2048	2048	2048
5	2041	2047	2043
10	2051	2061	2063
15	2015	2035	2043
20	1952	1981	2000
25	1839	1874	1908
30	1691	1742	1786
35	1570	1636	1691
40	1422	1510	1579
45	1313	1430	1514
50	1109	1247	1325
55	934	1096	1169
60	734	898	951
65	580	734	754
70	425	530	497
75	284	304	342
80	159	175	204
85	62	72	79
90	0	0	0



244-2T5HO
(2) FP54T5HO/835
5000 Lumens

Efficiency 64.7%

Test Report
#11777.0

(Consult factory for I.E.S. data not included within this report.)

Coefficients of Utilization

rc	Effective floor cavity reflectance																
	80%		70%		50%		30%		10%		0%						
	rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0	
RCR																	
0	77	77	77	77	75	75	75	75	72	72	72	69	69	69	66	66	66
1	71	68	66	64	69	67	65	63	64	62	61	62	60	59	59	58	57
2	65	60	56	53	64	59	56	52	57	54	51	55	52	50	53	51	49
3	60	54	49	45	58	53	48	44	51	47	44	49	46	43	47	45	42
4	55	48	42	38	54	47	42	38	45	41	37	44	40	37	42	39	36
5	50	42	37	32	49	41	36	32	40	35	32	39	35	32	38	34	31
6	46	38	32	28	45	37	32	28	36	31	28	35	31	27	34	30	27
7	42	34	28	24	41	33	28	24	32	28	24	31	27	24	30	27	24
8	39	30	25	21	38	30	25	21	29	24	21	28	24	21	27	23	21
9	36	27	22	18	35	27	22	18	26	21	18	25	21	18	25	21	18
10	33	25	19	16	32	24	19	16	24	19	16	23	19	16	22	18	16

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1819	18.2	28.1
0-40	2939	29.4	45.4
0-60	5244	52.4	81.0
0-90	6472	64.7	100.0
90-180	0	0.0	0.0
0-180	6472	64.7	100.0

Total Luminaire Efficiency = 64.7%

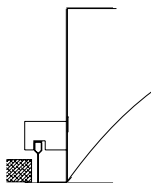
Luminance Data

Angle in Deg	0-Deg cd/sm	45-Deg cd/sm	90-Deg cd/sm
45	2952	3212	3427
55	2560	3021	3272
65	2158	2811	2865
75	1710	1798	1968
85	1077	1175	1241

Candela

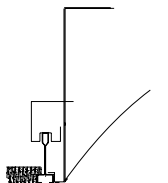
Angle	Along II	45°	Across ⊥
0	2332	2332	2332
5	2293	2293	2292
10	2318	2323	2327
15	2249	2261	2273
20	2216	2238	2260
25	2041	2071	2107
30	1892	1939	1986
35	1717	1784	1845
40	1568	1661	1743
45	1467	1596	1703
50	1218	1371	1481
55	1032	1218	1319
60	807	1004	1068
65	641	835	851
70	472	607	541
75	311	327	358
80	173	179	200
85	66	72	76
90	0	0	0

MOUNTING INFORMATION



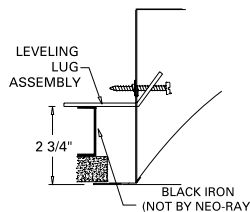
ETG

STANDARD LAY-IN CEILING
(GRID LAY-IN)



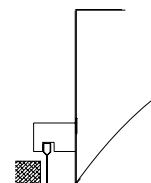
STG

SCREW SLOT CEILING
(SLOT-T)



SR

SHEET ROCK CEILING
(FLANGE)



FTG

STANDARD LAY-IN CEILING
(GRID LAY-IN)

FEATURES

OPTICAL SYSTEM

- Reflector - Self-flanged, specular clear or semi-diffuse reflector. Fluted vertical upper section works in conjunction with Bounding Ray Optical Principle to provide lamp before lamp image and smooth transition from top of reflector to bottom. Minimum flange matches reflector finish. White painted flange optional.
- Lens position at optical break provides optimal visual comfort and improved aperture aesthetics.
- Baffle/cone - Specular clear upper reflector. Microgroove baffle with white painted flange or specular black cone with flange that matches cone finish.
- Hinged lampdoor seals upper trim for optimal fixture efficiency and the reduction of stray light in the plenum.

MECHANICAL

- 16-gauge galvanized steel mounting/plaster frame with integral brackets to retain optical system. Maximum 1-1/2" ceiling thickness.
- Mounting bars are 16-gauge galvanized steel with continuous 4" vertical adjustment, held in place with tool-less, integral cam-action locking system. Post installation adjustment possible without the use of tools from above or below the ceiling. Shipped pre-installed.
- Galvanized steel junction box with bottom-hinged access covers and spring latches. Two combination 1/2"-3/4" and three 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out) No. 12 AWG conductors, rated for 90°C.

ELECTRICAL SYSTEM

- Horizontally-mounted, four-pin, positive-latch, thermoplastic socket.
- Class P, thermally-protected high power factor electronic ballast mounted to the junction box (CP and EL ballast mounted on ballast tray).

LISTING

- Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards (see Options).

ENERGY

LER.DOL	Annual Energy Cost	Lamps	Lamp Lumens	Ballast Factor	Input Watts
31	\$7.82	1/26TRT	1800	.98	27

Calculated in accordance with NEMA standard LE-5.

ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog number (shipped separately).

Example: **AF 1/26TRT 6AR CGL MVOLT**

AF

Series	Wattage/Lamp	Reflector/Color	Finish ²	Lens Type	Voltage	Ballast	Options
AF	1/18TRT	6AR Clear	(blank) Specular low iridescent	CGL Clear glass lens	MVOLT ⁵	(blank) GEB10 standard. Electronic ballast.	WLP With 35°K lamp (shipped separately).
	1/26TRT	6PR Pewter		CAL Clear acrylic lens	120	DMHL ⁶ Lutron Hi-Lume electronic dimming ballast.	TRW White flange.
	1/32TRT	6UBR Amber		PCL Clear polycarbonate lens	277	ADEZ ⁶ Advance Mark X electronic dimming ballast.	ELR Emergency battery pack. Remote test switch provided.
	1/42TRT	6WTR Wheat	LD Semi-diffuse low iridescent	T73 Tempered prismatic lens	347		GMF Single, slow-blow fuse (not available with MVOLT).
		6CR Champagne Gold ¹		A12 Prismatic acrylic lens			RIF Radio Interference Filter.
		6GR Gold ¹		PPC Prismatic polycarbonate lens			LFC Provides compatibility with Lithonia Reloc System. Lithonia Reloc System can be installed less this option with connectors provided by others. Access above ceiling required. For compatible Reloc Systems, refer to options and accessories tab.
		6MB Black Baffle ^{2,3,4}					QDS Quick Disconnect for easy ballast replacement. Not available with EL or ELR option.
	6BC Black Cone ²					CP Chicago Plenum (consult factory).	

NOTES:

- 1 Not recommended for use with compact fluorescent lamp. Consult factory.
- 2 Not available with finishes.
- 3 Lens positioned below optical break.
- 4 White flange standard.
- 5 Multi-volt electronic ballast capable of operating on any line voltage between 120-277 volt.
- 6 Consult factory for specific availability.

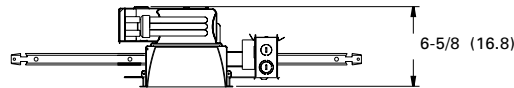
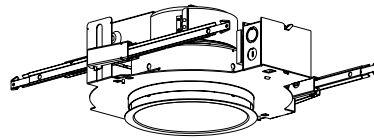
Type Catalog number

Compact Fluorescent Lighting

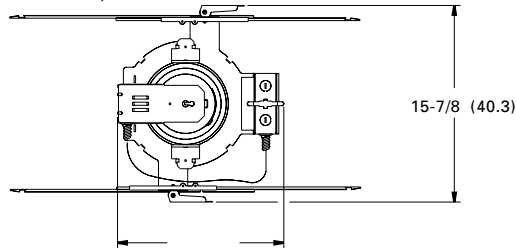
6" AF

Lensed

Horizontal Lamp
Triple-Tube



Aperture: 6-1/4 (15.9)
Ceiling Opening: 7-1/8 (18.1)
Overlap Trim: 7-1/2 (19.1)



13-5/8
(34.6)

All dimensions are inches (centimeters).

Accessories

Order as separate catalog number.
SC6FL Sloped ceiling adaptor. Degree of slope must be specified (10D, 15D, 20D, 25D, 30D). Ex: SC6FL 10D

CSA CSA Certified.



GOTHAM ARCHITECTURAL DOWNLIGHTING
A DIVISION OF ACUITY LIGHTING GROUP, INC.
1400 Lester Road Conyers Georgia 30012
P 800 315 4982 F 770 860 3129
www.gothamlighting.com

AF 6 TRT LENSED

DCF-140

T538-Architectural Lighting
Cynthia Murphy

Law Offices of
Patrick and Christopher

R3

1 of 2

6" AF Lensed

Distribution curve Distribution data Output data Coefficient of utilization Illuminance Data at 30" Above Floor for a Single Luminaire

AF 1/26TRT 6AR CGL, (1) CF26DT/E/IN/835, 1800 lumens per lamp, 1.2 s/mh, test no. LTL9474

90° 160 320 480 640 800 0	Distribution data			Zone Lumens %lamp	ρf ρc ρw	Coefficient of utilization						Mount height	Initial fc at beam center	50% beam angle 59.9°		10% beam angle 91.6°		
	From 0°	cp.	Lumens			80%		70%		50%				Beam diameter	fc at beam edge	Beam diameter	fc at beam edge	
						50%	30%	50%	30%	50%	30%							
0°	571		0°-30°	469.9	26.1	1	52	51	51	50	49	48						
5°	645	57	0°-40°	682.4	37.9	2	48	46	47	45	45	44						
15°	709	167	0°-60°	845.3	47.0	3	44	41	43	41	42	40						
25°	644	246	0°-90°	850.8	47.3	4	40	37	40	37	39	36						
35°	391	213	90°-180°	0.0	0.0	5	37	34	37	34	36	33	8'	18.9	6.3	9.4	11.3	1.9
45°	227	141	0°-180°	850.8	47.3*	6	35	31	34	31	33	31	10'	10.2	8.7	5.1	15.4	1.0
55°	16	22				7	32	29	32	29	31	28	12'	6.3	11.0	3.2	19.5	0.6
65°	3	4				8	30	27	30	26	29	26	14'	4.3	13.3	2.2	23.6	0.4
75°	1	1				9	28	25	28	25	27	24	16'	3.1	15.6	1.6	27.7	0.3
85°	0	0				10	26	23	26	23	25	23						
90°	0	0																

AF 1/32TRT 6AR CGL, (1) CF32DT/E/IN/835, 2400 lumens per lamp, 1.2 s/mh, test no. LTL9506

90° 160 320 480 640 800 0	Distribution data			Zone Lumens %lamp	ρf ρc ρw	Coefficient of utilization						Mount height	Initial fc at beam center	50% beam angle 60.7°		10% beam angle 92.3°		
	From 0°	cp.	Lumens			80%		70%		50%				Beam diameter	fc at beam edge	Beam diameter	fc at beam edge	
						50%	30%	50%	30%	50%	30%							
0°	626		0°-30°	524.9	21.9	1	44	43	43	42	41	41						
5°	671	63	0°-40°	767.0	32.0	2	40	39	40	38	38	37						
15°	706	188	0°-60°	955.9	39.8	3	37	35	37	35	35	34						
25°	629	274	0°-90°	961.1	40.0	4	34	32	34	31	33	31						
35°	420	242	90°-180°	0.0	0.0	5	32	29	31	29	30	28	8'	20.7	6.4	10.3	11.4	2.1
45°	261	164	0°-180°	961.1	40.0*	6	29	26	29	26	28	26	10'	11.1	8.8	5.6	15.6	1.1
55°	19	25				7	27	24	27	24	26	24	12'	6.9	11.1	3.5	19.8	0.7
65°	4	4				8	25	22	25	22	24	22	14'	4.7	13.5	2.4	23.9	0.5
75°	1	1				9	23	21	23	21	23	21	16'	3.4	15.8	1.7	28.1	0.3
85°	0	0				10	22	19	22	19	21	19						
90°	0	0																

AF 1/42TRT 6AR CGL, (1) CF42DT/E/IN/835, 3200 lumens per lamp, 1.3 s/mh, test no. LTL9510

90° 200 400 600 800 1000 0	Distribution data			Zone Lumens %lamp	ρf ρc ρw	Coefficient of utilization						Mount height	Initial fc at beam center	50% beam angle 62.1°		10% beam angle 92.6°		
	From 0°	cp.	Lumens			80%		70%		50%				Beam diameter	fc at beam edge	Beam diameter	fc at beam edge	
						50%	30%	50%	30%	50%	30%							
0°	821		0°-30°	718.0	22.4	1	46	45	45	44	43	42						
5°	884	84	0°-40°	1063.0	33.2	2	42	40	41	40	40	38						
15°	936	258	0°-60°	1326.9	41.5	3	39	36	38	36	37	35						
25°	836	377	0°-90°	1334.3	41.7	4	36	33	35	33	34	32						
35°	597	345	90°-180°	0.0	0.0	5	33	30	32	30	32	29	8'	27.1	6.6	13.6	11.5	2.7
45°	348	230	0°-180°	1334.3	41.7*	6	30	27	30	27	29	27	10'	14.6	9.0	7.3	15.7	1.5
55°	29	34				7	28	25	28	25	27	25	12'	9.1	11.4	4.5	19.9	0.9
65°	5	5				8	26	23	26	23	25	23	14'	6.2	13.8	3.1	24.1	0.6
75°	2	2				9	24	22	24	21	24	21	16'	4.5	16.3	2.3	28.2	0.5
85°	0	0				10	23	20	23	20	22	20						
90°	0	0																

AF 1/26TRT 6AR T73, (1) CF26DT/E/IN/835, 1800 lumens per lamp, 1.1 s/mh, test no. LTL9473

90° 160 320 480 640 800 0	Distribution data			Zone Lumens %lamp	ρf ρc ρw	Coefficient of utilization						Mount height	Initial fc at beam center	50% beam angle 54.5°		10% beam angle 86.7°		
	From 0°	cp.	Lumens			80%		70%		50%				Beam diameter	fc at beam edge	Beam diameter	fc at beam edge	
						50%	30%	50%	30%	50%	30%							
0°	632		0°-30°	452.7	25.1	1	48	46	47	46	45	44						
5°	693	60	0°-40°	640.7	35.6	2	44	42	43	41	42	40						
15°	734	170	0°-60°	773.6	43.0	3	40	38	40	38	39	37						
25°	594	222	0°-90°	777.8	43.2	4	37	35	37	34	36	34						
35°	361	188	90°-180°	0.0	0.0	5	35	32	34	32	33	31	8'	20.9	5.7	10.4	10.4	2.1
45°	151	109	0°-180°	777.8	43.2*	6	32	29	32	29	31	29	10'	11.2	7.7	5.6	14.2	1.1
55°	19	24				7	30	27	30	27	29	27	12'	7.0	9.8	3.5	17.9	0.7
65°	2	3				8	28	25	28	25	27	25	14'	4.8	11.8	2.4	21.7	0.5
75°	1	1				9	26	23	26	23	25	23	16'	3.5	13.9	1.7	25.5	0.3
85°	0	0				10	24	22	24	22	24	21						
90°	0	0																

AF 1/32TRT 6AR T73, (1) CF32DT/E/IN/835, 2400 lumens per lamp, 1.1 s/mh, test no. LTL9505

90° 160 320 480 640 800 0	Distribution data			Zone Lumens %lamp	ρf ρc ρw	Coefficient of utilization						Mount height	Initial fc at beam center	50% beam angle 54.7°		10% beam angle 87.0°		
	From 0°	cp.	Lumens			80%		70%		50%				Beam diameter	fc at beam edge	Beam diameter	fc at beam edge	
						50%	30%	50%	30%	50%	30%							
0°	658		0°-30°	472.5	19.7	1	37	36	37	36	35	35						
5°	684	63	0°-40°	671.6	28.0	2	34	33	34	32	33	32						
15°	697	177	0°-60°	811.5	33.8	3	32	30	31	30	30	29						
25°	568	233	0°-90°	815.3	34.0	4	29	27	29	27	28	27						
35°	359	199	90°-180°	0.0	0.0	5	27	25	27	25	26	24	8'	21.8	5.7	10.9	10.4	2.2
45°	158	115	0°-180°	815.3	34.0*	6	25	23	25	23	24	23	10'	11.7	7.8	5.8	14.2	1.2
55°	19	25				7	23	21	23	21	23	21	12'	7.3	9.8	3.6	18.0	0.7
65°	2	3				8	22	20	22	20	21	19	14'	5.0	11.9	2.5	21.8	0.5
75°	1	1				9	20	18	20	18	20	18	16'	3.6	14.0	1.8	25.6	0.4
85°	1	0				10	19	17	19	17	19	17						
90°	0	0																

NOTES:

- 1 For electrical characteristics, refer to electrical data tab.
- 2 Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change without notice.
- 3 Consult factory or IES file for microgroove baffle, black cone and other photometric reports.

DCF-140

©2003 Gotham, Rev. 01/03
DCF-140.p65



GOTHAM ARCHITECTURAL DOWNLIGHTING
A DIVISION OF ACUITY LIGHTING GROUP, INC.
1400 Lester Road Conyers Georgia 30012
P 800 315 4982 F 770 860 3129
www.gothamlighting.com

T538-Architectural Lighting
Cynthia Murphy

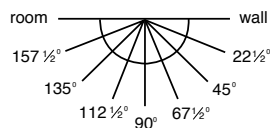
Law Offices of
Patrick and Christopher

R3

4i AFVW Open Wallwash

TECHNICAL INFORMATION

Footcandle values are initial and tables are based on minimum of six units. For fixture-to-wall distance other than those shown, use maximum of one-to-one spacing (distance between fixtures not more than distance to wall) for best results.



Fixture/lamp	Candlepower data								Footcandle values								
	Vertical angle	Room side				Wall side				Luminaire 3' from wall on 3' centers			Luminaire 3' from wall on 4' centers				
		157	135	112	90	67	45	22	Wall	1	2	3	1	2	3		
AFVW 18TRT 4AR	0	303	303	303	303	303	303	303	303	303	303	303	303	303	303		
F18TBX/SPX35/A/4P	5	336	333	332	322	313	300	285	274	267	2	8	8	8	7	5	7
1200 rated lumens	15	344	353	345	328	318	299	285	273	263	3	11	10	11	9	7	9
Test no. LTL9962	25	283	301	298	278	284	281	276	274	269	4	10	10	10	7	7	7
	35	208	218	225	214	215	227	234	232	236	5	8	9	9	6	6	7
	45	81	91	102	113	124	141	158	169	183	6	7	7	7	5	5	5
	55	5	5	6	6	10	30	75	95	102	7	5	6	6	4	4	4
	65	2	2	2	2	3	11	37	44	44	8	4	4	4	3	4	3
	75	1	1	1	1	2	5	16	20	21	9	3	3	4	3	3	3
	85	0	0	0	0	0	1	3	3	3	10	3	3	3	2	2	2
	90	0	0	0	0	0	0	0	0	0							

NOTES:

- 1 For electrical characteristics, refer to Technical Bulletins tab.
- 2 Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change without notice.

DCF-330

©2005 Gotham, Rev. 01/05
DCF-330.p65

gotham
An Acuity Brands Company

GOTHAM ARCHITECTURAL DOWNLIGHTING
A DIVISION OF ACUITY LIGHTING GROUP, INC.
1400 Lester Road Conyers Georgia 30012
P 800 315 4982 F 770 860 3129
www.gothamlighting.com