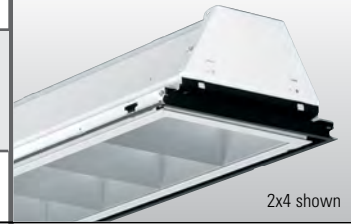


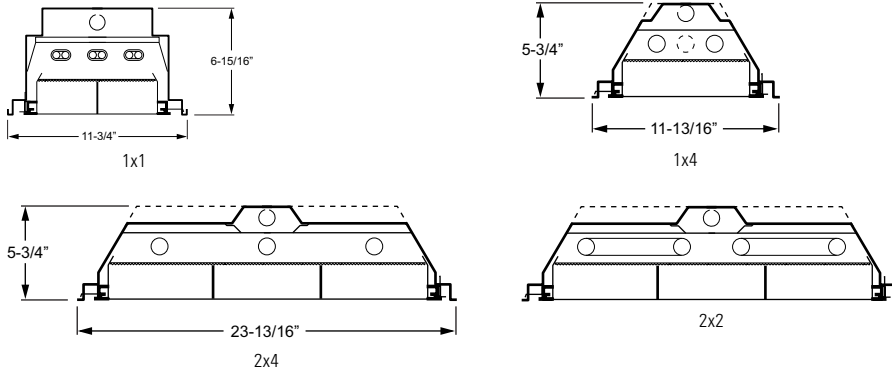
BLADE® TROFFER

BL

CATALOG #:	TYPE:
PROJECT:	NOTES:
EXAMPLE BL G - D 2 4 - 3 32 - W 38 A B - OPTIONS - EB3 - UNV <small>SERIES CEILING TYPE FIX. NOM. NOM. TOTAL WATTAGE/ DOOR LOUVER BLADE REVEAL OPTIONS BALLAST VOLTAGE</small> <small>STYLE W. L. LAMPS TYPE COLOR CELLS COLOR COLOR TYPE TYPE</small>	



CROSS SECTIONS



FEATURES

- ▶ Five standard louver colors provide personalized decorative appeal — custom colors also available.
- ▶ Patented BLADE® louvers with acrylic prismatic overlay provide architectural appearance and excellent lamp shielding.
- ▶ Full reveal presents floating door appearance.
- ▶ Fully-enclosed spring-loaded cam latches allow years of hassle-free maintenance.
- ▶ T-slot steel hinge allows reversible hinging and latching.
- ▶ T-slot steel hinge ensures positive retention when door is opened.
- ▶ Field convertible to NEMA Type "F".
- ▶ Fully gasketed door minimizes contaminants.
- ▶ Ballast secured by two captive bolts and nuts to ensure a tight, reliable fit for maximum heat dissipation.
- ▶ This fixture is proudly made in the USA.

ORDERING INFORMATION

SERIES	
BL	BLADE® Troffer

CEILING TYPE	
G	NEMA Type "G"
F	NEMA Type "F"

FIXTURE STYLE	
D	9/16" reveal around floating door

NOMINAL WIDTH	
1	1'
2	2'
4	4'

NOMINAL LENGTH	
1	1' (1' width only)
2	2'
4	4'

TOTAL LAMPS	
1, 2, or 3	(1x1, 1x4 only)
2, 3, or 4	(2x2, 2x4 only)

LAMP WATTAGE/TYPE	
1x1 LAMP OPTIONS	
13T4	13-watt compact fluorescent
16UN	16-watt T8, 10-1/2", U-bent, 1-5/8" leg spacing
18TT	18-watt, 10-1/2", twin tube (RS)
26T4	26-watt compact fluorescent
382D	38-watt 2D lamp
1x4 LAMP OPTIONS	
28T5S	4', 28-watt T5
32	4', 32-watt T8
54T5H	4', 54-watt T5HO (1 or 2 lamps only)
2x2 LAMP OPTIONS	
17	2', 17-watt T8
31UN	2', U-bent, 31-watt T8, 1-5/8" leg spacing
32U	2', U-bent, 32-watt T8, 6" leg spacing
40TT	2', 40-watt long twin tube
2x4 LAMP OPTIONS	
28T5S	4', 28-watt T5
32	4', 32-watt T8
54T5H	4', 54-watt T5HO (2 lamps max.)

DOOR FRAME COLOR	
B	Black
W	White

LOUVER CELLS (Width x Length)			
1x1 LOUVER CELLS		2x2 LOUVER CELLS	
22	2 x 2, 4-cell	34	3 x 4, 12-cell
1x4 LOUVER CELLS		44	4 x 4, 16-cell
18	1 x 8, 8-cell	2x4 LOUVER CELLS	
28	2 x 8, 16-cell	28	2 x 8, 16-cell
		38	3 x 8, 24-cell
		48	4 x 8, 32-cell

BLADE COLOR			
A	Aluminum	O	Off-white
B	Black	W	White
Z	Bronze		

REVEAL COLOR	
B	Black
W	White

OPTIONS	
For generic EM ballast options (must specify voltage), see Technical Info .	
For flexible whip options, see Technical Info .	
F338	6', 3/8" flex, 3-conductor, No. 18 AWG (1x4, 2x2, 2x4 only)
CP	Chicago Plenum (CCEA)

BALLAST TYPE	
Additional ballast options available, see Technical Info .	
EB1	1-lamp electronic ballast
EB2	2-lamp electronic ballast
EB3	3-lamp electronic ballast
EB4	4-lamp electronic ballast

VOLTAGE	
120	120V
277	277V
UNV	120-277V
347	347V

PHOTOMETRY – 1x1

Catalog #: **BLG-D11-218TT-W22AB-EB2-120**

SPECIFICATIONS

Housing – 22-gauge die-formed C.R.S.
Door Frame – 20-gauge C.R.S. or .050" extruded aluminum, flat or regress, with mitered corners. T-slot steel hinge allows reversible hinging and latching. Fully enclosed spring-loaded cam latches.

Shielding – Acrylic, pattern #12, .125" thick.
Finish – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.

Electrical – Electronic ballast standard, instant start T8, program start T5, rated Class P.

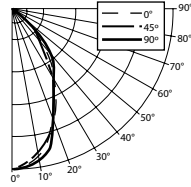
Mounting – NEMA Type "G" standard. NEMA Type "F" available.

Labels –

- UL/CUL listed as recessed fluorescent luminaire suitable for dry or damp locations.
- City of Chicago Environmental Air approved when specified with CP option.

TEST REPORT INFORMATION

- Test Report #: 6452.0
- Date: 03/07/91
- Lamp Type: F18BX/SPX35/RS
- Lamp Quantity: 2



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	632.	632.	632.	
5°	609.	621.	625.	59.2
15°	534.	549.	569.	155.2
25°	419.	406.	398.	189.9
35°	283.	250.	290.	170.3
45°	153.	141.	189.	121.2
55°	71.	63.	81.	62.1
65°	28.	23.	35.	26.4
75°	8.	6.	10.	7.9
85°	3.	1.	1.	1.9
90°	0.	0.	0.	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	404.	16.2	50.9
0 - 40	575.	23.0	72.4
0 - 60	758.	30.3	95.4
0 - 90	794.	31.8	100.0
Total Luminaire:			
0 - 180	794.	31.8	100.0

Total Luminaire Optical Efficiency: **31.8%**
 IES Spacing Criteria: Across = .9
 Along = .9

ZONAL CAVITY COEFFICIENTS

	Ceiling	.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10
0	.38	.38	.38	.37	.37	.37	.35	.35	.35	
1	.36	.35	.34	.35	.34	.33	.33	.32	.32	
2	.34	.32	.30	.33	.31	.30	.30	.29	.28	
3	.32	.29	.28	.31	.29	.27	.28	.27	.25	
4	.30	.27	.25	.29	.27	.25	.26	.24	.23	
5	.28	.25	.23	.27	.24	.22	.24	.22	.21	
6	.26	.23	.21	.26	.23	.21	.22	.20	.19	
7	.24	.21	.19	.24	.21	.19	.20	.19	.17	
8	.23	.19	.17	.22	.19	.17	.19	.17	.16	
9	.21	.18	.16	.21	.18	.15	.17	.15	.14	
10	.20	.16	.14	.20	.16	.14	.16	.14	.13	

Effective Floor Cavity Reflectance = .20

MULTIPLIERS FOR CU TABLE

Approximate CU values can be calculated for luminaires and BLADE® colors by using the multipliers from the table below.

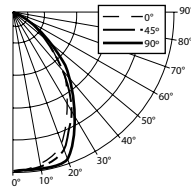
Catalog #	BLADE® Color				
	White (W)	Off-White (O)	Alum. (A)	Bronze (Z)	Black (B)
BLG-D11-218TT-W22_B	1.27	1.24	1.00	0.78	0.74

PHOTOMETRY – 1x4

Catalog #: **BLG-D14-232-W18AB-EB2-120**

TEST REPORT INFORMATION

- Test Report #: 8531.0
- Date: 11/16/95
- Lamp Type: F32T8/SPX35/RS
- Lamp Quantity: 2



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	1785.	1785.	1785.	
5°	1733.	1739.	1752.	166.1
15°	1644.	1696.	1758.	476.0
25°	1373.	1448.	1563.	674.4
35°	1044.	1098.	1187.	692.8
45°	706.	688.	824.	557.8
55°	372.	336.	416.	328.6
65°	158.	125.	178.	142.9
75°	55.	40.	62.	52.0
85°	13.	9.	13.	12.0
90°	0.	0.	0.	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	1316.	22.3	42.4
0 - 40	2009.	34.1	64.8
0 - 60	2896.	49.1	93.3
0 - 90	3103.	52.6	100.0
Total Luminaire:			
0 - 180	3103.	52.6	100.0

Total Luminaire Optical Efficiency: **52.6%**
 IES Spacing Criteria: Across = 1.2
 Along = 1.1

ZONAL CAVITY COEFFICIENTS

	Ceiling	.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10
0	.63	.63	.63	.61	.61	.61	.58	.58	.58	.58
1	.59	.57	.55	.58	.56	.54	.54	.53	.51	
2	.55	.52	.49	.54	.51	.49	.49	.47	.46	
3	.52	.47	.44	.50	.47	.44	.45	.43	.40	
4	.48	.43	.39	.47	.42	.39	.41	.38	.36	
5	.45	.39	.35	.44	.39	.35	.38	.34	.32	
6	.42	.36	.32	.41	.35	.32	.34	.31	.29	
7	.39	.33	.29	.38	.32	.28	.31	.28	.26	
8	.36	.30	.26	.35	.29	.26	.29	.25	.23	
9	.33	.27	.23	.32	.27	.23	.26	.23	.20	
10	.31	.25	.21	.30	.24	.21	.24	.20	.18	

Effective Floor Cavity Reflectance = .20

MULTIPLIERS FOR CU TABLE

Approximate CU values can be calculated for luminaires and BLADE® colors by using the multipliers from the table below.

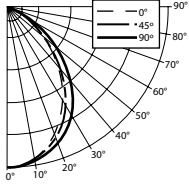
Catalog #	BLADE® Color				
	White (W)	Off-White (O)	Alum. (A)	Bronze (Z)	Black (B)
BLG-D14-132-W18_B	1.45	1.42	1.10	0.99	0.93
BLG-D14-232-W18_B	1.34	1.30	1.00	0.90	0.86
BLG-D14-332-W18_B	1.25	1.21	0.93	0.84	0.80
BLG-D14-132-W28_B	1.35	1.32	1.02	0.92	0.86
BLG-D14-232-W28_B	1.25	1.21	0.88	0.72	0.69
BLG-D14-332-W28_B	1.17	1.13	0.82	0.67	0.64

PHOTOMETRY – 2x2

Catalog #: **BLG-D22-232U-W34AB-EB2-120**

TEST REPORT INFORMATION

- ▶ Test Report #: 8533.0
- ▶ Date: 11/15/95
- ▶ Lamp Type: FB032/835/6
- ▶ Lamp Quantity: 2



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	1855.	1855.	1855.	
5°	1857.	1841.	1842.	175.9
15°	1705.	1708.	1769.	487.1
25°	1459.	1509.	1611.	701.6
35°	1139.	1190.	1337.	764.2
45°	754.	789.	951.	629.9
55°	429.	443.	578.	420.4
65°	182.	167.	249.	186.7
75°	67.	54.	79.	66.6
85°	18.	16.	18.	19.1
90°	0.	0.	0.	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	1365.	22.7	39.5
0 - 40	2129.	35.5	61.7
0 - 60	3179.	53.0	92.1
0 - 90	3452.	57.5	100.0
Total Luminaire:			
0 - 180	3452.	57.5	100.0

Total Luminaire Optical Efficiency: **57.5%**
IES Spacing Criteria: Across = 1.2
Along = 1.1

ZONAL CAVITY COEFFICIENTS

	Ceiling	.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10
Room Cavity Ratio 0		.68	.68	.68	.67	.67	.67	.64	.64	.64
1		.64	.62	.60	.63	.61	.59	.59	.57	.56
2		.60	.56	.53	.59	.55	.53	.53	.51	.49
3		.56	.51	.48	.55	.50	.47	.49	.46	.43
4		.52	.46	.42	.51	.46	.42	.44	.41	.38
5		.48	.42	.38	.47	.41	.37	.40	.37	.34
6		.45	.38	.34	.44	.38	.34	.37	.33	.30
7		.42	.35	.30	.41	.34	.30	.33	.30	.27
8		.38	.31	.27	.38	.31	.27	.30	.27	.24
9		.36	.28	.24	.35	.28	.24	.27	.24	.21
10		.33	.26	.22	.32	.26	.22	.25	.21	.19

Effective Floor Cavity Reflectance = .20

MULTIPLIERS FOR CU TABLE

Approximate CU values can be calculated for luminaires and BLADE® colors by using the multipliers from the table below.

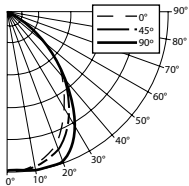
Catalog #	BLADE® Color				
	White (W)	Off-White (O)	Alum. (A)	Bronze (Z)	Black (B)
BLG-D22-232U-W34_B	1.26	1.25	1.00	0.86	0.81
BLG-D22-232U-W44_B	1.23	1.21	0.93	0.79	0.74

PHOTOMETRY – 2x4

Catalog #: **BLG-D24-332-W38AB-EB3-120**

TEST REPORT INFORMATION

- ▶ Test Report #: 8113.0
- ▶ Date: 12/08/94
- ▶ Lamp Type: F32T8/735/RS
- ▶ Lamp Quantity: 3



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	2461.	2461.	2461.	
5°	2429.	2444.	2455.	233.3
15°	2288.	2347.	2464.	668.3
25°	1969.	2090.	2299.	975.5
35°	1568.	1685.	1827.	1058.6
45°	1136.	1145.	1096.	867.0
55°	614.	544.	541.	499.4
65°	276.	213.	270.	242.4
75°	98.	72.	117.	94.8
85°	24.	18.	25.	23.3
90°	1.	1.	1.	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	1877.	22.0	40.3
0 - 40	2936.	34.3	63.0
0 - 60	4302.	50.3	92.3
0 - 90	4663.	54.5	100.0
Total Luminaire:			
0 - 180	4663.	54.5	100.0

Total Luminaire Optical Efficiency: **54.5%**
IES Spacing Criteria: Across = 1.2
Along = 1.1

ZONAL CAVITY COEFFICIENTS

	Ceiling	.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10
Room Cavity Ratio 0		.65	.65	.65	.63	.63	.63	.61	.61	.61
1		.61	.59	.57	.60	.58	.56	.56	.54	.53
2		.57	.54	.51	.56	.53	.50	.51	.49	.47
3		.53	.49	.45	.52	.48	.45	.46	.44	.41
4		.49	.44	.40	.48	.44	.40	.42	.39	.37
5		.46	.40	.36	.45	.38	.36	.38	.35	.32
6		.43	.37	.32	.42	.36	.32	.35	.32	.29
7		.40	.33	.29	.39	.33	.29	.32	.29	.26
8		.37	.30	.26	.36	.30	.26	.29	.25	.23
9		.34	.27	.23	.33	.27	.23	.26	.23	.20
10		.32	.25	.21	.31	.25	.21	.24	.21	.18

Effective Floor Cavity Reflectance = .20

MULTIPLIERS FOR CU TABLE

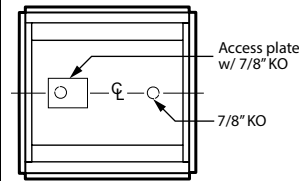
Approximate CU values can be calculated for luminaires and BLADE® colors by using the multipliers from the table below.

Catalog #	BLADE® Color				
	White (W)	Off-White (O)	Alum. (A)	Bronze (Z)	Black (B)
BLG-D24-232-W28_B	1.40	1.37	1.11	0.87	0.82
BLG-D24-332-W38_B	1.27	1.24	1.00	0.78	0.74
BLG-D24-432-W48_B	1.19	1.04	0.84	0.66	0.61

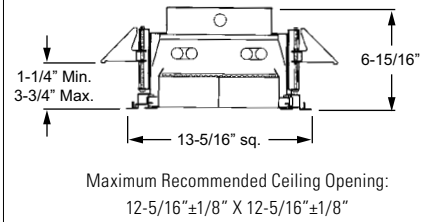


FIXTURE DETAILS

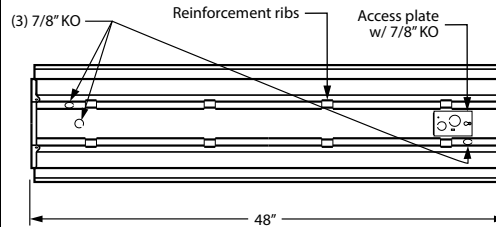
1x1 BACK VIEW



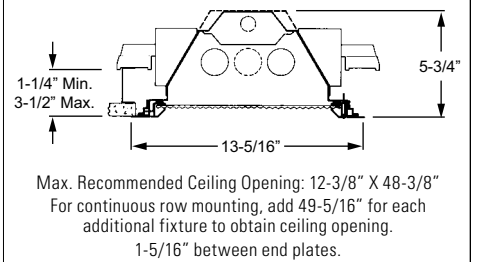
1x1 NEMA TYPE "F" INSTALLATION



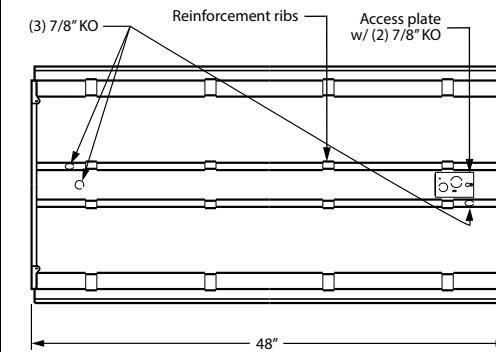
1x4 BACK VIEW



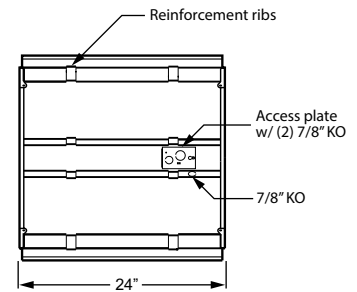
1x4 NEMA TYPE "F" INSTALLATION



2x4 BACK VIEW



2x2 BACK VIEW



2x2 | 2x4 NEMA TYPE "F" INSTALLATION

