

**2, 3, or 4 Lamp CF TT5
PL3 Plastic Louver**

Most of these luminaires meet the basic requirements of IESNA RP-1 for use in spaces containing Video Display Terminals.

CONSTRUCTION/FINISH

- A quality low-profile troffer with specification features for NEMA "G" grid, NEMA "NFG" narrow face grid, NEMA "GR" grid regressed, NEMA "NFGS" narrow faced slot grid, or NEMA "F" flange ceiling types.
- 3" nominal housing depth.
- Smooth rolled edges on all four sides for easy handling.
- Die-formed one piece housing includes stiffening embosses and provides increased rigidity.
- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Integral baffling system to prevent light leaks.
- Integral wire hanger holes for independent wire suspension.
- Embosses with holes provided in housing end for screwing to T-bar if desired.
- Factory installed access plate in housing top includes 7/8" hole with rolled edge and 7/8" K.O.
- Some models utilizing multiple ballasts will be supplied with a top mounted ballast box, which will increase the height of the luminaire.
- T-bar grid clips (UL listed, patented) built into luminaire, no extra parts required. Designed for use with standard grid ceiling members, 1-1/2" maximum height.

- Carton includes integral carrying handle for easy handling and tear tape for easy opening.

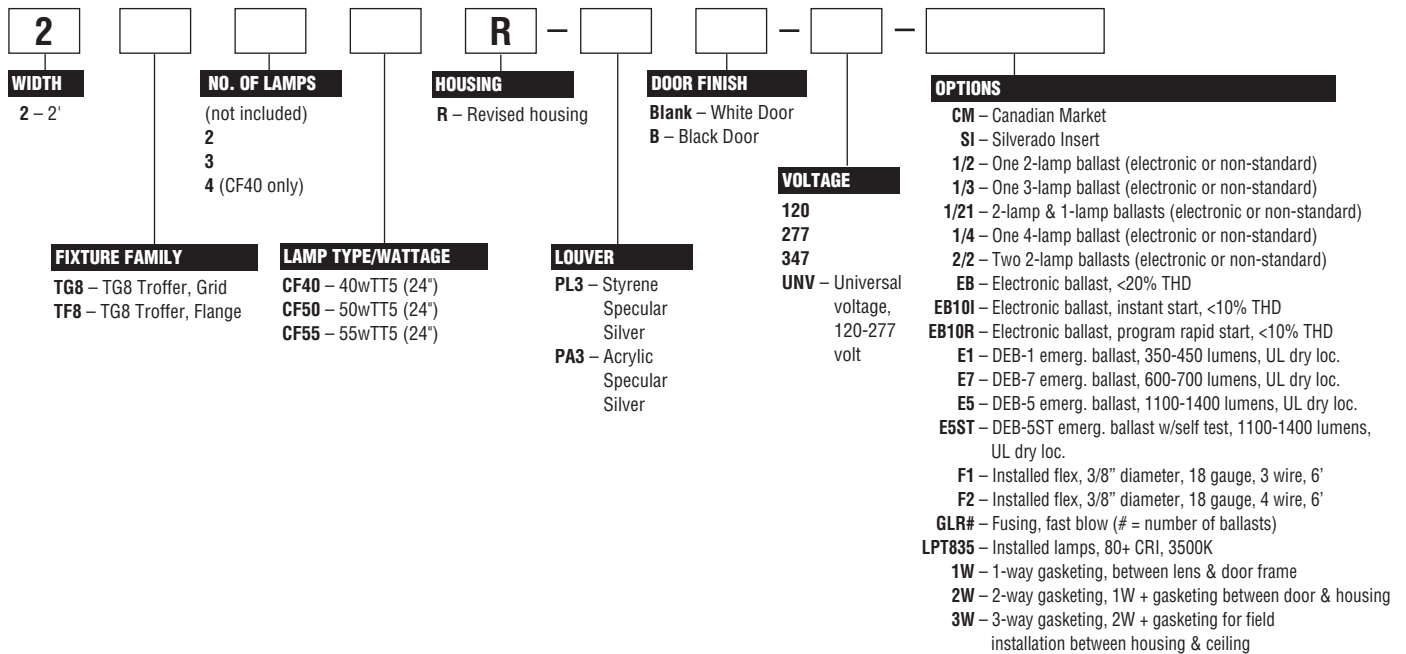
ELECTRICAL

- Class P, HPF ballasts comply with ©Federal Ballast Law (Public Law 100-357,1988).
- UL listed, suitable for damp locations. Canadian certified optional.
- Self-contained fluorescent emergency power packs can be incorporated, UL listed for dry locations.

ENCLOSURES

- Full "C" channel door frames for improved lens support and reduced shipping damage.
- Flat steel door frame features smooth rolled edges inside and outside.
- Door frame uses T-hinges and can be hinged and latched from either side.
- Opposable stainless steel spring loaded latches are standard for easy operation and consistent retention.
- Door frame has true mitered corners.
- Louver is Specular Silver Polystyrene high efficiency Para-lite 3 (3/4" x 3/4" x 1/2") with durabloc finish which assures durability and ease of cleaning.
- 35° Shielding.
- Shipped in plastic to keep out construction dirt.

CATALOG NUMBER

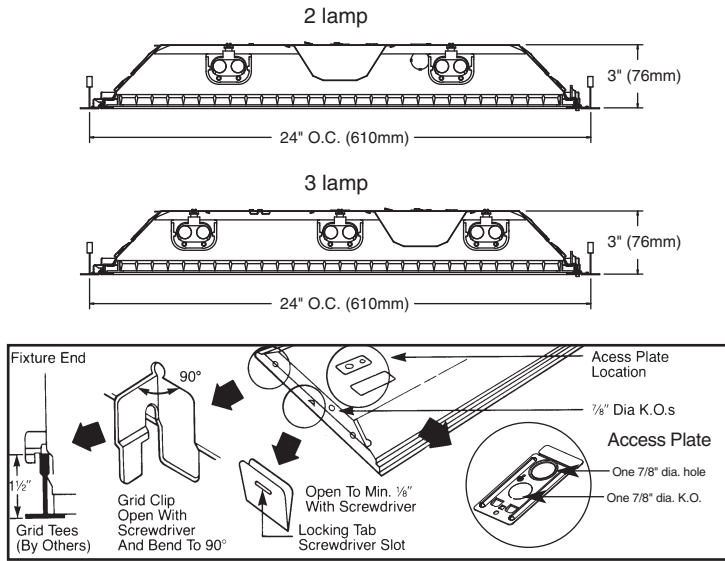


See section 1600-OA for other options.

2' x 2' TG8

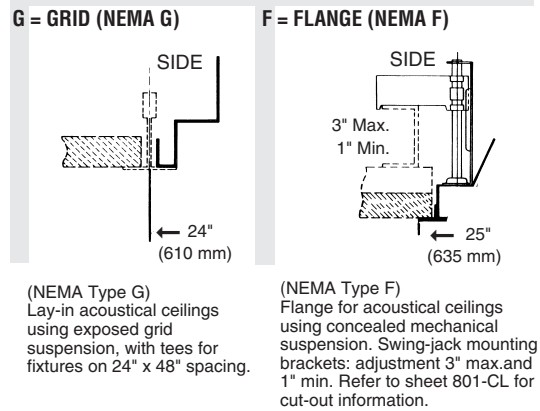


DIMENSIONS



2 T G 8 2 CF40 R

CEILING TYPE



(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for fixtures on 24" x 48" spacing.

(NEMA Type F)
Flange for acoustical ceilings using concealed mechanical suspension. Swing-jack mounting brackets; adjustment 3" max. and 1" min. Refer to sheet 801-CL for cut-out information.

PHOTOMETRIC DATA

CATALOG # 2TG82CF40R-PL3-1/2-EB LAMPS = 40wT5
TEST #27177 S/MH=1.4 BALLAST = ELECTRONIC

INPUT WATTS = 72
BALLAST FACTOR = .90

LER = 51

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **\$4.71** BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 64.9%

CANDLEPOWER			
Angle	End	45	Cross
0	1698	1698	1698
5	1674	1712	1728
10	1639	1679	1690
15	1591	1630	1684
20	1528	1589	1706
25	1450	1562	1689
30	1357	1510	1646
35	1253	1436	1600
40	1135	1335	1548
45	1008	1228	1406
50	862	1084	1231
55	737	878	849
60	467	589	730
65	101	87	37
70	3	5	2
75	3	2	1
80	1	1	0
85	1	1	0

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.76 3150 Lumens/Lamp very clean
- Room width divided by room height = 5 or more, 2 or 1

Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	100 ft-c	
2x2	5	-	112	67	48	34
2-Lamp CF40	2	-	80	48	34	-
PL3	1	-	59	36	-	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 3150 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	4671	5690	6515
55	4210	5016	4850
65	783	675	287
75	38	25	13
85	38	38	0

TYPICAL V.C.P.'s Room Mounting Height

Room Size	Lengthwise		Crosswise	
	8.5	10	8.5	10
30x30	89	82	87	81
40x40	93	88	91	87
60x30	93	88	91	87
60x60	95	91	94	91
100x100	97	95	97	95

LLF = .76 LLF = LIGHT LOSS FACTOR LRF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90 LLD = 0.90 @ 40% RATED LAMP LIFE BF = 0.90 ELECTRONIC BALLAST & T5 LAMP (RELAMP AT 70% LAMP LIFE)

COEFFICIENT OF UTILIZATION

pfc	20				70				50			
	80	70	50	30	80	70	50	30	80	70	50	30
RCR	0	77	77	77	75	75	75	71	71	71	68	64
	1	71	69	68	70	68	66	66	66	64	58	56
	2	67	61	58	65	60	57	58	56	56	53	48
RCR	4	56	50	45	55	48	45	47	44	44	41	38
	5	52	45	40	51	44	39	42	39	39	36	34
	6	48	40	34	46	40	34	39	34	34	31	28
RCR	7	45	36	32	44	35	30	34	30	30	28	25
	8	41	34	28	40	33	28	32	28	28	26	23
	9	39	30	26	38	30	26	29	25	25	23	20
10	36	28	23	35	28	23	28	23	23	21	18	

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1348	21.4	33.0
0-40	2238	35.5	54.8
0-60	3920	62.2	95.9
0-90	4087	64.9	100.0

PHOTOMETRIC DATA

CATALOG # 2TG83CF40R-PL3-1/21-EB LAMPS = 40wT5
TEST #27176 S/MH=1.4 BALLAST = ELECTRONIC

INPUT WATTS = 109
BALLAST FACTOR = .90

LER = 48

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **\$5.00** BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 62.0%

CANDLEPOWER			
Angle	End	45	Cross
0	2528	2528	2528
5	2500	2511	2547
10	2453	2469	2509
15	2384	2405	2510
20	2291	2347	2509
25	2177	2291	2449
30	2041	2205	2345
35	1880	2058	2218
40	1700	1890	2088
45	1509	1696	1858
50	1291	1463	1603
55	1088	1192	1241
60	733	823	1044
65	102	123	57
70	5	6	3
75	5	3	1
80	4	2	1
85	1	1	0

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.76 3150 Lumens/Lamp very clean
- Room width divided by room height = 5 or more, 2 or 1

Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture			
		10 ft-c	30 ft-c	50 ft-c	100 ft-c
2x2	5	-	96	69	48
3-Lamp CF40	2	115	69	49	35
PL3	1	85	51	37	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 3150 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	6992	7859	8609
55	6215	6809	7089
65	791	954	442
75	63	38	13
85	38	38	0

TYPICAL V.C.P.'s Room Mounting Height

Room Size	Lengthwise		Crosswise	
	8.5	10	8.5	10
30x30	85	76	83	75
40x40	90	83	89	82
60x30	90	83	89	82
60x60	93	88	92	87
100x100	96	93	95	92

LLF = .76 LLF = LIGHT LOSS FACTOR LRF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90 LLD = 0.90 @ 40% RATED LAMP LIFE BF = 0.90 ELECTRONIC BALLAST & T5 LAMP (RELAMP AT 70% LAMP LIFE)

COEFFICIENT OF UTILIZATION

pfc	20				70				50			
	80	70	50	30	80	70	50	30	80	70	50	30
RCR	0	73	73	73	71	71	71	68	68	68	64	60
	1	68	67	65	67	65	64	63	60	60	56	54
	2	64	59	56	61	58	56	56	54	54	51	46
RCR	4	54	47	42	53	46	42	46	41	41	38	36
	5	50	42	38	48	42	38	40	36	36	33	31
	6	46	39	34	45	39	34	36	33	33	30	28
RCR	7	42	35	30	41	34	29	34	29	29	27	25
	8	40	32	28	39	32	27	30	27	27	25	23
	9	38	29	25	36	28	25	28	25	25	23	21
10	34	28	23	34	27	23	27	22	22	20	18	

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1983	21.0	33.9
0-40	3262	34.5	55.7
0-60	5616	54.5	95.9
0-90	5857	62.0	100.0

142.2-VDT

DAY-BRITE LIGHTING • www.daybriteighting.com
776 South Green Street • Tupelo, Mississippi 38804 • PH: (662) 842-7212 • FAX: (662) 841-5501
CANADIAN DIVISION
189 Bullock Drive • Markham, Ontario L3P 1W4 • PH: (905) 294-9570 • FAX: (905) 294-9811

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