Day-Brite CFI by signify

Recessed

Coffaire HP 2x2

T8, T5, or T5HO

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Day-Brite / CFI Coffaire HP recessed features a high 95% reflectance white powder painted body, our TransOptix lens and a 95% reflectance specular aluminum reflector. Coffaire HP combines a perforated mesh lamp shield with the TransOptix lens in an indirect cove to create an aesthetically pleasing direct/indirect luminaire.

Ordering guide

Example: CFS2GHP217UNV-1/2-EB

Family	Air Function	Width	Ceiling Type	Diffuser/ Reflector	No. of Lamps	Lamp Type (by others)	Voltage	Options
CF	S	2		HP			–	
CF Coffaire direct/ indirect recessed with perforated mesh shield	**S** Static	**2** 2'	**G** Fits both standard and slot grid **N** 9/16" narrow T-grid	**HP** High performance	**2** 2 lamp **3** 3 lamp	**14** 14WT5 **17** 17WT8 **24** 24WT5HO	**UNV** Universal voltage, 120-277V **120** 120V **277** 277V **347** 347V	**1/2** One 2-lamp ballast **1/3** One 3-lamp ballast **1/21** 2-lamp and 1-lamp ballasts **EB** Electronic ballast, <10% THD std. ballast factor **EB10R** T8 electronic ballast, <10% THD, program rapid start **EBSD** T8 electronic step dimming ballast,.88 ballast factor **EBHE** T8 electronic ballast, high efficiency std. ballast factor **EBLHE** T8 electronic ballast, high efficiency low ballast factor **EBHHE** T8 electronic ballast, high efficiency high ballast factor **EBD7** Advance Mark 7 dimming ballast, 0-10V (low voltage) control **EBDX** Advance Mark 10 dimming ballast, phase control **EBD** Electronic dimming ballast, customer specified **E1** B100 emerg. ballast, T8, 350-450 lumens, 120/277V **E1CAN** B100-CAN emerg. ballast, Canada market, T8, 350-450 lumens, 120/347V **E7** B60 emerg. ballast, T8, 600-700 lumens, 120/277V **E5** B50 emerg. ballast, U.S. or Canada market, T8, 1100-1400 lumens, UNV **E5CAN** B50-CAN emerg. ballast, Canada market, T8, 1100-1400 lumens, 120/347V **E5ST** B50ST emerg. ballast w/self test, U.S. or Canada market, T8, 1100-1400 lumens, UNV **E7LP** LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V **E6LP** LP600 emerg. ballast U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V **F1** 3/8" flex, 3 wire 18 gauge 6' **F2** 3/8" flex, 4 wire 18 gauge 6' **F2/5W** 3/8" flex, 5 wire 18 gauge 6' **GLR** Fusing, fast blow **LPT830** Installed T8/T5/T5HO lamps, 80+ CRI, 3000K **LPT835** Installed T8/T5/T5HO lamps, 80+ CRI, 3500K **LPT841** Installed T8/T5/T5HO lamps, 80+ CRI, 4100K **LPT830HL** Installed T8/T5 hi lumen lamps, 80+ CRI, 3000K **LPT835HL** Installed T8/T5 hi lumen lamps, 80+ CRI, 3500K **LPT841HL** Installed T8/T5 hi lumen lamps, 80+ CRI, 4100K **CHIC** Chicago plenum rated

Accessories (order separately)

- **FMA22 –** 2'x2' "F" mounting frame for NEMA "F" installations

CFS Coffaire HP recessed 2x2

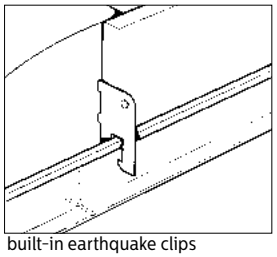
T8, T5, or T5HO

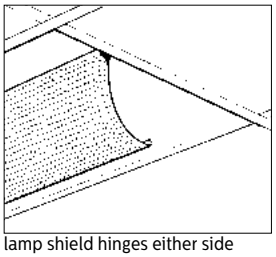
Features

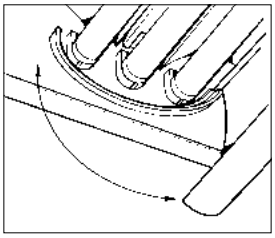
- Direct/indirect lamp shield appearance with soft contoured interior.
- Perforated mesh lamp basket with unique TransOptix lens.
- Body 95% reflective matte white powder coated.
- 95% reflective specular reflector.
- 72.5% efficient (2 lamp T8), 68.3% efficient (3 lamp T8), 76.6% efficient (2 lamp T5HO), 65.4% efficient (3 lamp T5HO).
- Spacing to mounting ratio 1.3 (2 lamp T8), 1.4 (T5, T5HO, 3 lamp T8)
- Only 5" deep.
- Tension screws secure ends to body.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling.
- Injection molded light stop at basket ends.
- Ballast accessible thru lamp compartment from room side.
- Perforated lamp shield hinges from either side.
- Can be continuous row mounted.
- Wiring access plate standard.

Specifications

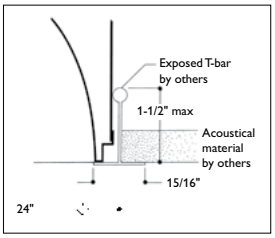
- **Performance:** In an installation of 2 lamp 17WT8 luminaires in a room cavity ratio of 1, with reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .75. To reduce glare the average brightness at 65° shall not exceed 2345 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 74%.
  In an installation of 2 lamp 24WT5HO luminaires in a room cavity ratio of 1, with reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .80. To reduce glare the average brightness at 65° shall not exceed 3155 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 74%.
- **Materials:** Chassis parts – die-formed code gauge steel. Lamp Shield – steel perforated mesh lamp shield with unique TransOptix lens.
- **Finish:** Chassis exterior – White baked polyester enamel. Rust preventative undercoating. Cavity – 95% reflective white baked polyester enamel. Reflector – 95% reflective specular aluminum reflector. Lamp Shield – 95% reflective white baked polyester enamel.
- **Electrical:** Thermally protected class "P" ballast, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.
- **Labels:** cULus listed, suitable for damp locations.


built-in earthquake clips

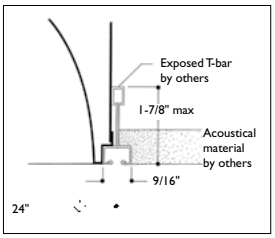

lamp shield hinges either side


light stop, static models only

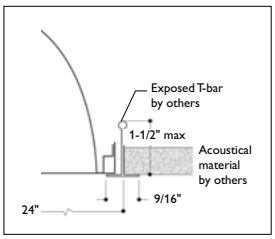
Mounting methods



exposed t-grid ceiling

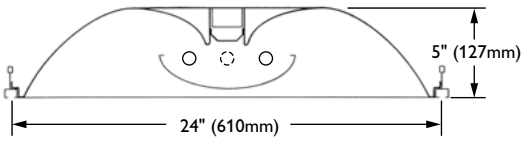


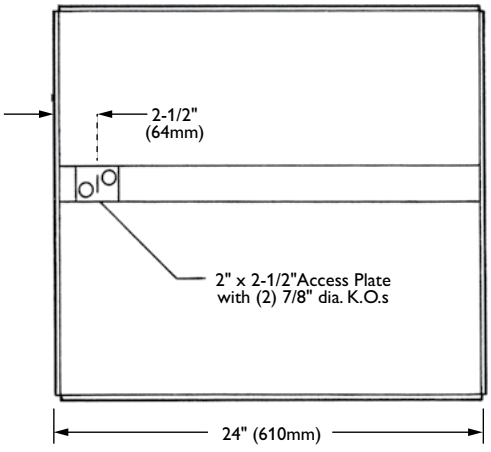
exposed slot t-grid ceiling



narrow exposed t-grid ceiling

Dimensions





Hg

Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

CFS Coffaire HP recessed 2x2

T8, T5, or T5HO

Photometry

Model No. CFS2GHP217UNV-1/2-EB

LER = FP - 61.4 IW - 30.1 BF - 0.91
Comparative yearly lighting energy cost per 1000 lumens = $3.91

Report Number: G2009046
Catalog Number: CFS2GHP217UNV-1/2-EB
Lamps: (2) F17T8/TL835/PLUS/ALTO PLPS
Luminaire: Coffaire HP 2'x2' with 95% reflective white reflectors and perforated basket.
Ballast: B232-I-UNV-HP-B UNIVERSAL
Report is based on 1400 Lumens per lamp.
Efficiency: 72.5%
CIE Type: Direct

Plane:	0-Deg	90-Deg
Spacing Criteria:	1.2	1.4
Shielding Angles:	90	90
Plane:	0-Deg	90-Deg
Luminous Length:	22.920	22.920

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80			50			30		
RW	70	50	30	50	30	10	50	30	10
1	79	75	72	70	68	66	68	66	64
2	71	65	60	61	57	54	59	56	53
3	65	57	51	54	49	45	52	48	43
4	59	50	44	48	42	38	46	41	38
5	54	45	38	43	37	33	41	36	33
6	50	40	34	38	33	29	37	32	28
7	47	37	30	35	29	25	34	29	25
8	43	33	27	32	26	23	31	26	22
9	40	31	24	29	24	20	28	24	20
10	38	28	22	27	22	18	26	22	18

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	673	673	673	
5	671	671	672	64
15	643	650	656	184
25	589	608	628	281
35	513	549	585	344
45	418	475	528	366
55	308	386	449	342
65	195	283	336	271
75	99	144	158	144
85	24	30	32	34
90	4	5	4	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	528	18.9	26.0
0- 40	873	31.2	43.0
0- 60	1581	56.5	77.9
0- 90	2029	72.5	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	1744.	1981.	2202.
55	1584.	1985.	2309.
65	1361.	1975.	2345.
75	1128.	1641.	1801.
85	812.	1015.	1083.

Model No. CFS2GHP317UNV-1/3-EB

LER = FP - 58.9 IW - 44.8 BF - 0.92
Comparative yearly lighting energy cost per 1000 lumens = $4.07

Report Number: G2009047
Catalog Number: CFS2GHP317UNV-1/3-EB
Lamps: (3) F17T8/TL835/PLUS/ALTO PLPS
Luminaire: Coffaire HP 2'x2' with 95% reflective white reflectors and perforated basket.
Ballast: B332I-UNV-HP-A UNVERSAL
Report is based on 1400 Lumens per lamp.
Efficiency: 68.3%
CIE Type: Direct

Plane:	0-Deg	90-Deg
Spacing Criteria:	1.2	1.4
Shielding Angles:	90	90
Plane:	0-Deg	90-Deg
Luminous Length:	22.920	22.920

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80			50			30		
RW	70	50	30	50	30	10	50	30	10
1	74	71	68	66	64	62	64	62	60
2	67	62	57	58	54	51	56	53	50
3	61	54	48	51	46	43	49	45	42
4	56	48	42	45	40	36	43	39	36
5	51	43	36	40	35	31	39	34	31
6	47	38	32	36	31	27	35	31	27
7	44	35	29	33	28	24	32	27	24
8	41	32	26	30	25	21	29	25	21
9	38	29	23	28	23	19	27	22	19
10	36	27	21	26	21	17	25	21	17

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	961	961	961	
5	958	958	960	91
15	916	929	942	263
25	837	870	906	402
35	726	786	848	493
45	589	676	757	520
55	430	540	634	480
65	267	386	467	373
75	132	200	232	201
85	30	41	46	46
90	4	5	4	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	756	18.0	26.3
0- 40	1249	29.7	43.5
0- 60	2249	53.5	78.4
0- 90	2869	68.3	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	2457.	2820.	3158.
55	2211.	2777.	3260.
65	1863.	2694.	3259.
75	1504.	2279.	2644.
85	1015.	1388.	1557.

Model No. CFS2GHP224UNV-1/2-EB

LER = FP - 51.1 IW - 52.8 BF - 1.00
Comparative yearly lighting energy cost per 1000 lumens = $4.70

Report Number: G2009050
Catalog Number: CFS2GHP224UNV-1/2-EB
Lamps: (2) FP24/835/HO/ECO Syl
Luminaire: Coffaire HP 2'x2' with 95% reflective white reflectors and perforated basket.
Ballast: QTP-2X39-24 T5HO/UNV PSN SYL
Report is based on 1760 Lumens per lamp.
Efficiency: 76.6%
CIE Type: Direct

Plane:	0-Deg	90-Deg
Spacing Criteria:	1.2	1.4
Shielding Angles:	90	90
Plane:	0-Deg	90-Deg
Luminous Length:	22.920	22.920

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80			50			30		
RW	70	50	30	50	30	10	50	30	10
1	83	80	76	75	72	70	72	70	68
2	76	69	64	65	61	57	62	59	56
3	69	60	54	57	52	48	55	50	47
4	63	53	46	50	45	40	49	44	40
5	58	48	41	45	39	35	43	38	34
6	53	43	36	41	35	30	39	34	30
7	49	39	32	37	31	27	36	30	26
8	46	35	29	34	28	24	33	27	24
9	43	32	26	31	25	21	30	25	21
10	40	30	24	29	23	19	28	23	19

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	891	891	891	
5	888	887	888	84
15	850	861	870	243
25	780	807	834	373
35	679	731	780	458
45	554	634	707	488
55	407	517	604	458
65	256	377	452	362
75	128	191	212	190
85	29	37	40	41
90	4	4	4	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	700	19.9	26.0
0- 40	1158	32.9	43.0
0- 60	2104	59.8	78.0
0- 90	2697	76.6	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	2311.	2645.	2949.
55	2093.	2659.	3106.
65	1787.	2631.	3155.
75	1459.	2177.	2416.
85	981.	1252.	1354.

Model No. CFS2GHP324UNV-1/21-EB

LER = FP - 47.1 IW - 75.0 BF - 1.0
Comparative yearly lighting energy cost per 1000 lumens = $5.10

Report Number: G2009049
Catalog Number: CFS2GHP324UNV-1/21-EB
Lamps: (3) F24T5HO/835/Alto Plps
Luminaire: Coffaire HP 2'x2' with 95% reflective white reflectors and perforated basket.
Ballast: (2) B224PUNV-C Universal
Report is based on 1800 Lumens per lamp.
Efficiency: 65.4%
CIE Type: Direct

Plane:	0-Deg	90-Deg
Spacing Criteria:	1.2	1.4
Shielding Angles:	90	90
Plane:	0-Deg	90-Deg
Luminous Length:	22.920	22.920

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80			50			30		
RW	70	50	30	50	30	10	50	30	10
1	71	68	65	64	62	60	61	59	58
2	65	59	55	56	52	49	53	50	48
3	59	52	46	49	44	41	47	43	40
4	54	46	40	43	38	35	42	38	34
5	49	41	35	39	34	30	37	33	30
6	45	37	31	35	30	26	34	29	26
7	42	33	27	32	27	23	31	26	23
8	39	30	25	29	24	20	28	24	20
9	37	28	22	27	25	18	26	21	18
10	34	26	20	25	20	17	24	20	17

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1180	1180	1180	
5	1176	1176	1178	112
15	1124	1141	1159	323
25	1027	1072	1117	495
35	890	969	1046	607
45	722	835	936	642
55	528	669	784	592
65	328	475	580	460
75	160	239	288	246
85	34	48	55	55
90	5	6	9	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	929	17.2	26.3
0- 40	1537	28.5	43.5
0- 60	2770	51.3	78.4
0- 90	3532	65.4	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	3012.	3483.	3904.
55	2715.	3440.	4032.
65	2289.	3315.	4048.
75	1823.	2724.	3282.
85	1151.	1624.	1861.

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