Day-Brite CFI by Signify

Recessed

Coffaire HP 2x4

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: CFS2GHP232UNV-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 HP 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	**32** 32WT8 **28** 28WT5 **54** 54WT5HO	**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 **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 **EBSD** T8 electronic step dimming ballast,.88 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)

- **FMA24** – 2'x4' "F" mounting frame for NEMA "F" installations

CFS Coffaire HP recessed 2x4

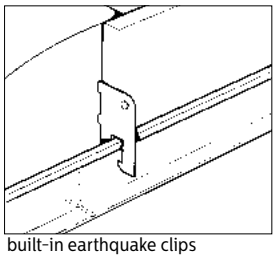
T8, T5, or T5HO

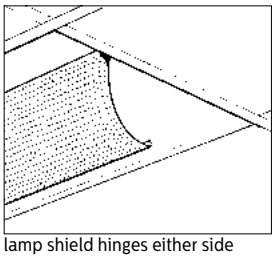
Features

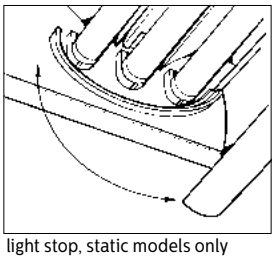
- Direct/indirect lamp shield appearance with soft contoured interior.
- Perforated mesh lamp basket with unique TransOptix lens.
- Body 95% reflective matte white powder coated.
- 95% reflective specular reflector.
- 73.4% efficient (2 lamp T8), 66.9% efficient (3 lamp T8), 80.2% efficient (2 lamp 28WT5), 80.7% efficient (2 lamp 54WT5HO).
- Spacing to mounting ratio 1.3.
- 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

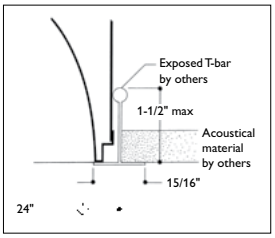
- **Performance:** In an installation of 2 lamp 32WT8 luminaires in a room cavity ratio of 1, with reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .76. To reduce glare the average brightness at 65° shall not exceed 2417 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 73.6%.
  In an installation of 2 lamp 28WT5 luminaires in a room cavity ratio of 1, with reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .83. To reduce glare the average brightness at 65° shall not exceed 2223 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 73.6%.
- **Materials:** Chassis parts – die-formed code gauge steel. Lamp Shield – steel perforated mesh lamp shield with unique TransOptix lens.
- **Finish:** Chassis exterior – 95% reflective 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

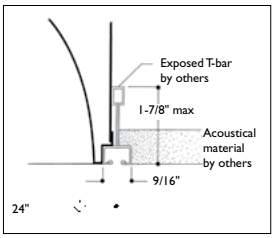

lamp shield hinges either side


light stop, static models only

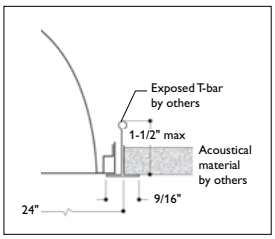
Mounting methods



exposed t-grid ceiling

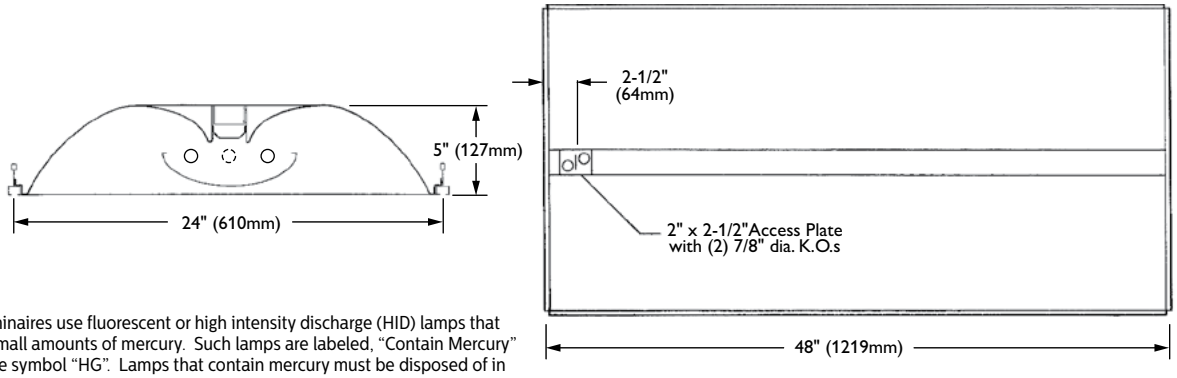


exposed slot t-grid ceiling



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 2x4

T8, T5, or T5HO

Photometry

Model No. CFS2GHP232UNV-1/2-EB

LER = FP - 68.2 IW - 58.7 BF - 0.88
Comparative yearly lighting energy cost per 1000 lumens = $3.52

Report Number: G2008246
Catalog Number: CFS2GHP232UNV-1/2-EB
Lamps: F32 T8/ADV/841/ALTO PLPS
Luminaire: Coffaire HP 2'x4' with 95% reflective white reflectors and perforated basket.
Ballast: B232I-UNVHP-B Universal
Report is based on 3100 Lumens per lamp.
Efficiency: 73.4%
CIE Type: Direct

Plane:	0-Deg	90-Deg
Spacing Criteria:	1.2	1.3
Shielding Angles:	90	90
Plane:	0-Deg	90-Deg
Luminous Length:	46.920	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	80	76	73	72	69	67	69	67	65
2	72	66	61	62	58	55	60	57	54
3	66	58	52	55	50	46	53	49	45
4	60	51	45	49	43	39	47	42	38
5	55	46	39	43	38	34	42	37	33
6	51	41	34	39	33	29	38	33	29
7	47	36	31	35	30	26	34	29	26
8	44	34	28	32	27	23	32	27	23
9	41	31	25	30	24	21	29	24	21
10	38	29	23	28	22	19	27	22	19

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1537	1537	1537	
5	1528	1530	1533	146
15	1462	1479	1496	418
25	1338	1383	1431	638
35	1167	1251	1325	781
45	953	1076	1174	825
55	711	870	987	770
65	458	633	709	602
75	231	302	304	309
85	50	52	50	61
90	5	5	4	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1202	19.4	26.4
0- 40	1983	32.0	43.6
0- 60	3578	57.7	78.6
0- 90	4550	73.4	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	1942.	2192.	2392.
55	1786.	2185.	2479.
65	1561.	2158.	2417.
75	1786.	1681.	1692.
85	827.	860.	827.

Model No. CFS2GHP228120-1/2-EB

LER = FP - 68.5 IW - 56.6 BF - 0.93
Comparative yearly lighting energy cost per 1000 lumens = $3.50

Report Number: G2009044
Catalog Number: CFS2GHP228120-1/2-EB
Lamps: (2) F28T5/835/ALTO PLPS
Luminaire: Coffaire HP 2'x4' with 95% reflective white reflectors and perforated basket.
Ballast: ST232-120-E Ultrasave
Report is based on 2600 Lumens per lamp.
Efficiency: 80.2%
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:	46.920	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	87	83	80	78	76	73	73	73	71
2	79	73	67	68	64	60	66	62	59
3	72	63	57	60	55	50	58	53	49
4	66	56	49	53	47	43	51	46	42
5	60	50	43	47	41	37	46	40	36
6	56	45	38	43	37	32	41	36	32
7	52	41	34	39	33	28	38	32	28
8	48	37	30	35	29	25	34	29	25
9	45	34	27	33	27	23	32	26	22
10	42	31	25	30	24	20	29	24	20

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1397	1397	1397	
5	1391	1392	1395	133
15	1334	1352	1369	382
25	1225	1270	1310	585
35	1070	1147	1213	716
45	874	987	1074	757
55	650	708	903	704
65	417	491	652	552
75	209	270	283	283
85	46	46	47	56
90	5	5	5	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1100	21.1	26.4
0- 40	1816	34.9	43.6
0- 60	3278	63.0	78.6
0- 90	4169	80.2	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	1781.	2011.	2188.
55	1633.	1997.	2268.
65	1422.	1974.	2223.
75	1163.	1531.	1575.
85	760.	794.	777.

Model No. CFS2GHP332UNV-1/3-EB

LER = FP - 64.6 IW - 85.78 BF - 0.89
Comparative yearly lighting energy cost per 1000 lumens = $3.71

Report Number: G2008270
Catalog Number: CFS2GHP332UNV-1/3-EB
Lamps: F32 T8/ADV/841/ALTO PLPS
Luminaire: Coffaire HP 2'x4' with 95% reflective white reflectors and perforated basket.
Ballast: B332I-UNVHP-A Universal
Report is based on 3100 Lumens per lamp
Efficiency: 66.9%
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:	46.920	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	73	70	67	65	63	61	63	61	59
2	66	61	56	57	54	51	55	52	49
3	60	53	48	50	46	42	48	45	42
4	55	47	41	45	40	36	43	39	35
5	51	42	36	40	35	31	39	34	31
6	47	38	32	36	31	27	35	30	27
7	43	34	28	33	28	24	32	27	24
8	40	31	25	30	25	21	29	25	21
9	38	29	23	27	23	19	27	22	19
10	35	26	21	25	21	17	25	20	17

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	2156	2156	2156	
5	2136	2144	2155	204
15	2038	2072	2105	585
25	1860	1935	2014	893
35	1613	1740	1859	1087
45	1308	1485	1629	1139
55	963	1176	1324	1037
65	609	822	929	790
75	302	392	414	404
85	64	69	65	80
90	8	7	6	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1682	18.1	27.0
0- 40	2769	29.8	44.5
0- 60	4945	53.2	79.5
0- 90	6220	66.9	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	2665.	3026.	3319.
55	2419.	2954.	3326.
65	2076.	2802.	3167.
75	1681.	2193.	2305.
85	1058.	1141.	1075.

Model No. CFS2GHP254UNV-1/2-EB

LER = FP - 58.6 IW - 121.1 BF - 1.00
Comparative yearly lighting energy cost per 1000 lumens = $4.09

Report Number: G2009031
Catalog Number: CFS2GHP254UNV-1/2-EB
Lamps: (2) FP54T5HO-835 Syl
Luminaire: Coffaire HP 2'x4' with 95% reflective white reflectors and perforated basket.
Ballast: QT2X54/120/PHO Sylvania
Report is based on 4400 Lumens per lamp.
Efficiency: 80.7%
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:	46.920	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	88	84	80	79	76	74	75	73	71
2	80	73	67	68	64	60	66	62	59
3	72	64	57	60	55	50	58	53	50
4	66	56	49	53	47	43	51	46	42
5	61	50	43	48	41	37	46	41	36
6	56	45	38	43	37	32	41	36	32
7	52	41	34	39	33	28	38	32	28
8	48	37	30	36	30	25	35	29	25
9	45	34	27	33	27	23	32	26	23
10	42	31	25	30	24	21	29	24	20

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	2375	2375	2375	
5	2361	2368	2375	225
15	2263	2292	2322	648
25	2073	2149	2219	991
35	1810	1942	2054	1213
45	1481	1675	1826	1284
55	1101	1355	1541	1199
65	708	990	1131	948
75	354	486	499	492
85	78	83	81	97
90	8	8	8	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1864	21.2	26.3
0- 40	3077	35.0	43.5
0- 60	5560	63.2	78.3
0- 90	7097	80.7	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	3018.	3413.	3721.
55	2766.	3404.	3871.
65	2414.	3375.	3856.
75	1970.	2705.	2778.
85	1289.	1372.	1339.

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