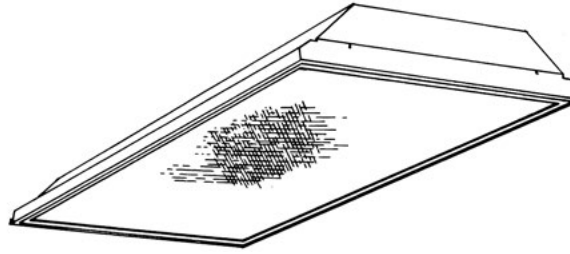


Recessed

Designer 2x4

2, 3, or 4 lamp T8, T5, T5HO



Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

Day-Brite / CFI Designer is a premium grade recessed luminaire. Multiple options in door frames, lenses, air handling, and ceiling types provide versatility to meet the needs of many applications.

Ordering guide

Example: 2DPG232-FS01-UNV-1/2-EBLHB-LPT835HL

Width	Family	Ceiling type	No. of lamps (not included)	Lamp type/Wattage	Door frame	Lens	Door finish	Voltage	Door finish
2	DP								
2 2'	DP Designer	G Grid F Flange Z Z Spline /Modular	2 3 4 6	32 32WT8 (48") 28 28WT5 (46") 54HO 54WT5HO (46")	FS Flat Steel FA Flat Aluminum RA Regressed Aluminum	01 Pattern 12 prismatic acrylic 08 Frost glaze (opal), .187" nominal 12 K-12, .125" nominal 19 K-19, .156" nominal 21 Pattern 12, .125" nominal	BLANK White B Black Door	120 120V 277 277V 347 347V UNV Universal voltage 120-277V	BLANK White B Black Door

Options

1/2	One 2 lamp ballast	ECAN	B50-CAN emerg. ballast, Canada market, T8, 1100-1400 lumens, 120/347V
1/3	One 3 lamp ballast	E5ST	B50ST emerg. ballast w/self test, T8, 1100-1400 lumens, UNV
1/21	2 lamp and 1 lamp ballasts	E7LP	LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V
1/4	One 4 lamp ballast	E6LP	LP600 emerg. ballast U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V
2/2	Two 2 lamp ballasts	F1	3/8" flex, 3 wire 18 gauge 6'
1/42	One 4 lamp and one 2 lamp ballast	F2	3/8" flex, 4 wire 18 gauge 6'
EB	Electronic ballast, <10% THD std. ballast factor	F2/5W	3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires
EB10R	T8 electronic ballast, program rapid start, <10% THD	GLR	Fusing, fast blow
EBHE	T8 electronic ballast, high efficiency, std. ballast factor	LPT830	Installed T8/T5/T5HO lamps 80+ CRI 3000K
EBLHE	T8 electronic ballast, high efficiency, low ballast factor	LPT835	Installed T8/T5/T5HO lamps 80+ CRI 3500K
EBHHE	T8 electronic ballast, high efficiency, high ballast factor	LPT841	Installed T8/T5/T5HO lamps 80+ CRI 4100K
EBD7	Advance Mark 7 dimming ballast, 0-10V (low voltage) control	LPT830HL	Installed T8/T5 hi lumen lamps 80+ CRI 3000K
EBDX	Advance Mark 10 dimming ballast, phase control	LPT835HL	Installed T8/T5 hi lumen lamps 80+ CRI 3500K
EBSD	T8 electronic step dimming ballast, .88 ballast factor	LPT841HL	Installed T8/T5 hi lumen lamps 80+ CRI 4100K
EBD	Electronic dimming ballast, customer specified	1W	1-way gasketing between lens & door frame (not avail. w/ RA door)
E1	B100 emerg. ballast, T8, 350-450 lumens, 120/277V	2W	2-way gasketing, 1W + gasketing between door frame & housing
E1CAN	B100-CAN emerg. ballast, Canada market, T8, 350-450 lumens, 120/347V	3W	3-way gasketing, 2W + gasketing for field installation between housing & ceiling
E7	B60 emerg. ballast, T8, 600-700 lumens, 120/277V	SI	Specular Insert (reflector)
E5	B50 emerg. ballast, U.S. or Canada market, T8, 1100-1400 lumens, UNV	PAF	Housing painted after fabrication
		CHIC	Chicago Plenum rated

Accessories (order separately)

- FMA24 2'x4' "F" mounting frame for NEMA "F" mounting
 FKDP24 2x4 flange conversion kit from NEMA G to NEMA F type



2DP Designer recessed 2X4

2, 3, or 4 lamp T8, T5, T5HO

Application

- Premium quality recessed static troffer for:
 - Grid inverted T (NEMA “G”)
 - Flange for concealed mechanical suspension (NEMA “F”)

Construction/Finish

- One piece unitized body including end plates for added rigidity
- Die formed steel housing
- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel
- Painted after fabrication housing optional
- Access plate (2 K.O.'s) factory installed includes grounding screw
- T-bar grid clips built into fixture end plates, no extra parts required

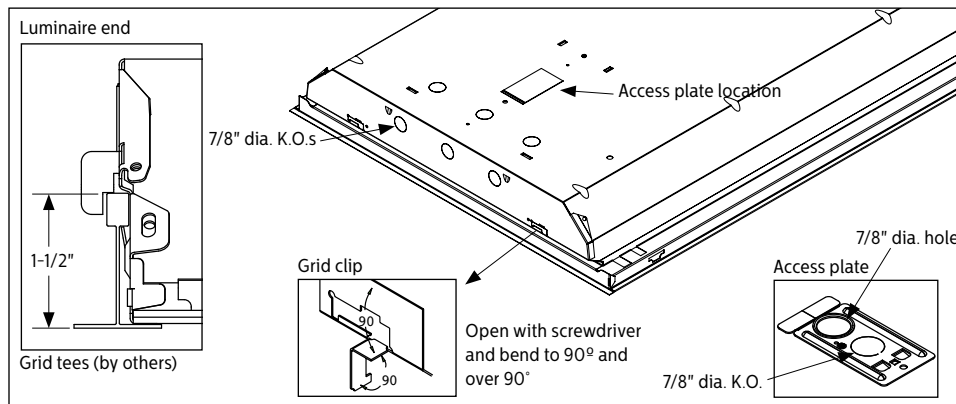
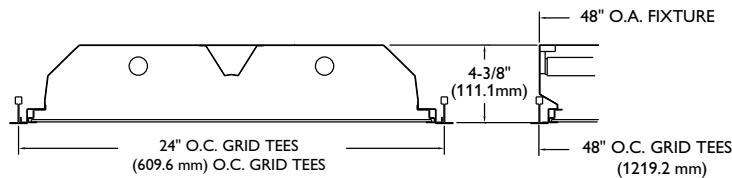
Electrical

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

Enclosure

- Mitered corner door frames with a choice of: Flat Steel, Flat Aluminum, or Regressed Aluminum
- Door frames standard with guide post spring loaded latches
- Mechanically designed interlocks block light, no gaskets are needed
- Prismatic acrylic pattern 12 lens standard (01)
- Other lenses or louvers optional
- Choice of door finishes; white (standard) or black
- Can be hinged and latched from either side

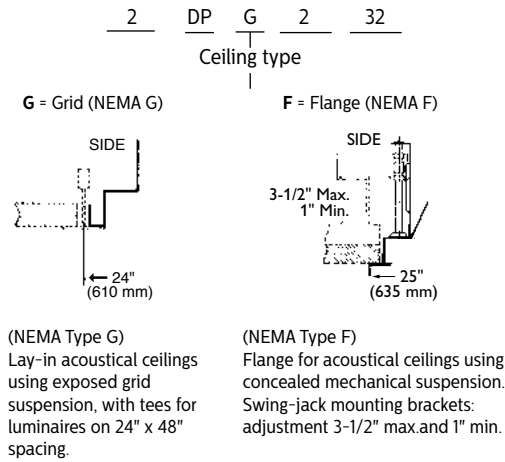
Dimensions



2DP Designer recessed 2X4

2, 3, or 4 lamp T8, T5, T5HO

Ceiling configuration



Photometry

Designer 2'x4' 2 Lamp T8 Efficiency – 84.8% LER – 71 TER – 63

Catalog No. 2DPG232-FS01-1/2-EB		Candlepower				Light Distribution				Average Luminance																																																																																																																																			
Test No.	20876	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross																																																																																																																																
S/MH	1.4	0	1853	1853	1853	0-30	1484	26.0	30.7	45	2418	2716	2873																																																																																																																																
Lamp Type	F32T8	5	1861	1853	1835	0-40	2451	43.0	50.7	55	1925	2132	2253																																																																																																																																
Lumens/Lamp	2850	10	1838	1840	1833	0-60	4091	71.8	84.6	65	1541	1348	1552																																																																																																																																
Ballast Factor	.88	15	1802	1817	1826	0-90	4834	84.8	100.0	75	1369	1089	1571																																																																																																																																
Input Watts	60	20	1746	1779	1810					85	1573	1573	1820																																																																																																																																
		25	1673	1729	1778	Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) <table><tr><td>pcc</td><td colspan="3">80</td><td colspan="3">70</td><td colspan="3">50</td></tr><tr><td>pw</td><td>70</td><td>50</td><td>30</td><td>70</td><td>50</td><td>30</td><td>50</td><td>30</td></tr><tr><td>RCR</td><td colspan="3"></td><td colspan="3"></td><td colspan="3"></td></tr><tr><td>0</td><td>101</td><td>101</td><td>101</td><td>98</td><td>98</td><td>98</td><td>93</td><td>93</td></tr><tr><td>1</td><td>93</td><td>89</td><td>85</td><td>91</td><td>86</td><td>83</td><td>83</td><td>81</td></tr><tr><td>2</td><td>84</td><td>78</td><td>72</td><td>82</td><td>77</td><td>71</td><td>73</td><td>69</td></tr><tr><td>3</td><td>78</td><td>69</td><td>63</td><td>76</td><td>68</td><td>61</td><td>66</td><td>60</td></tr><tr><td>4</td><td>71</td><td>61</td><td>55</td><td>69</td><td>60</td><td>54</td><td>58</td><td>53</td></tr><tr><td>5</td><td>66</td><td>56</td><td>47</td><td>64</td><td>55</td><td>47</td><td>53</td><td>46</td></tr><tr><td>6</td><td>60</td><td>50</td><td>42</td><td>59</td><td>50</td><td>42</td><td>47</td><td>41</td></tr><tr><td>7</td><td>56</td><td>46</td><td>39</td><td>55</td><td>45</td><td>38</td><td>44</td><td>38</td></tr><tr><td>8</td><td>53</td><td>41</td><td>34</td><td>52</td><td>40</td><td>34</td><td>40</td><td>34</td></tr><tr><td>9</td><td>50</td><td>39</td><td>32</td><td>47</td><td>38</td><td>32</td><td>36</td><td>30</td></tr><tr><td>10</td><td>46</td><td>35</td><td>28</td><td>45</td><td>34</td><td>28</td><td>34</td><td>28</td></tr></table>								pcc	80			70			50			pw	70	50	30	70	50	30	50	30	RCR										0	101	101	101	98	98	98	93	93	1	93	89	85	91	86	83	83	81	2	84	78	72	82	77	71	73	69	3	78	69	63	76	68	61	66	60	4	71	61	55	69	60	54	58	53	5	66	56	47	64	55	47	53	46	6	60	50	42	59	50	42	47	41	7	56	46	39	55	45	38	44	38	8	53	41	34	52	40	34	40	34	9	50	39	32	47	38	32	36	30	10	46	35	28	45	34	28	34	28
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		60	561	566	595																																																																																																																																								
		65	423	370	426																																																																																																																																								
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		80	168	153	200																																																																																																																																								
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Comparative yearly lighting energy cost per 1000 lumens – **\$3.38** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Designer 2'x4' 3 Lamp T8 Efficiency – 79.2% LER – 67 TER – 59

Catalog No.		2DPG332-FS01-1/3-EB		Candlepower				Light Distribution				Average Luminance																																																																																																																																			
Test No.		20838		Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross																																																																																																																																
S/MH		1.3		0	2680	2680	2680	0-30	2132	24.9	31.5	45	3491	3652	3879																																																																																																																																
Lamp Type		F32T8		5	2690	2670	2658	0-40	3481	40.7	51.4	55	2757	2948	3080																																																																																																																																
Lumens/Lamp		2850		10	2657	2650	2653	0-60	5741	67.1	84.8	65	2165	1858	2154																																																																																																																																
Ballast Factor		.88		15	2601	2617	2636	0-90	6772	79.2	100.0	75	1922	1529	2172																																																																																																																																
Input Watts		89		20	2522	2561	2600	Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) <table><tr><td>pcc</td><td colspan="3">80</td><td colspan="3">70</td><td colspan="3">50</td></tr><tr><td>pw</td><td>70</td><td>50</td><td>30</td><td>70</td><td>50</td><td>30</td><td>50</td><td>30</td></tr><tr><td>RCR</td><td colspan="3"></td><td colspan="3"></td><td colspan="3"></td></tr><tr><td>0</td><td>93</td><td>93</td><td>93</td><td>92</td><td>92</td><td>92</td><td>88</td><td>88</td></tr><tr><td>1</td><td>86</td><td>82</td><td>80</td><td>84</td><td>81</td><td>79</td><td>78</td><td>76</td></tr><tr><td>2</td><td>80</td><td>72</td><td>68</td><td>77</td><td>71</td><td>67</td><td>68</td><td>65</td></tr><tr><td>3</td><td>72</td><td>65</td><td>58</td><td>70</td><td>64</td><td>57</td><td>61</td><td>56</td></tr><tr><td>4</td><td>67</td><td>57</td><td>52</td><td>65</td><td>56</td><td>51</td><td>55</td><td>50</td></tr><tr><td>5</td><td>61</td><td>52</td><td>46</td><td>59</td><td>51</td><td>45</td><td>50</td><td>44</td></tr><tr><td>6</td><td>56</td><td>46</td><td>40</td><td>56</td><td>46</td><td>40</td><td>45</td><td>39</td></tr><tr><td>7</td><td>53</td><td>42</td><td>35</td><td>52</td><td>41</td><td>35</td><td>40</td><td>35</td></tr><tr><td>8</td><td>50</td><td>39</td><td>33</td><td>48</td><td>39</td><td>33</td><td>38</td><td>32</td></tr><tr><td>9</td><td>46</td><td>35</td><td>29</td><td>45</td><td>35</td><td>29</td><td>34</td><td>28</td></tr><tr><td>10</td><td>44</td><td>33</td><td>27</td><td>42</td><td>33</td><td>27</td><td>32</td><td>27</td></tr></table>								pcc	80			70			50			pw	70	50	30	70	50	30	50	30	RCR										0	93	93	93	92	92	92	88	88	1	86	82	80	84	81	79	78	76	2	80	72	68	77	71	67	68	65	3	72	65	58	70	64	57	61	56	4	67	57	52	65	56	51	55	50	5	61	52	46	59	51	45	50	44	6	56	46	40	56	46	40	45	39	7	53	42	35	52	41	35	40	35	8	50	39	33	48	39	33	38	32	9	46	35	29	45	35	29	34	28	10	44	33	27	42	33	27	32	27
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Comparative yearly lighting energy cost per 1000 lumens – \$3.58 based on 3000 hrs. and \$.08 pwr KWH. The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.		25	2417	2476	2522																																																																																																																																										
		30	2275	2353	2382																																																																																																																																										
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		75	323	257	365																																																																																																																																										
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		85	126	118	142																																																																																																																																										

2DP Designer recessed 2X4

2, 3 ,or 4 lamp T8, T5, T5HO

Designer 2'x4' 4 Lamp T8 Efficiency – 81.0% LER – 70 TER – 62

Catalog No. 2DPG432-FS01-1/4-EB		Candlepower				Light Distribution				Average Luminance																																																																																																																																			
Test No. 20849		Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45'	Cross																																																																																																																																
S/MH 1.3		0	3668	3668	3668	0-30	2916	25.6	31.6	45	4739	5038	5292																																																																																																																																
Lamp Type F32T8		5	3670	3662	3642	0-40	4766	41.8	51.6	55	3754	3987	4087																																																																																																																																
Lumens/Lamp 2850		10	3621	3637	3634	0-60	7839	68.8	84.9	65	2930	2514	2926																																																																																																																																
Ballast Factor .88		15	3546	3586	3609	0-90	9234	81.0	100.0	75	2576	2059	2945																																																																																																																																
Input Watts 116		20	3438	3512	3555					85	2969	2880	3428																																																																																																																																
		25	3289	3393	3452	Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) <table><tr><td>pcc</td><td colspan="3">80</td><td colspan="3">70</td><td colspan="3">50</td></tr><tr><td>pw</td><td>70</td><td>50</td><td>30</td><td>70</td><td>50</td><td>30</td><td>50</td><td>30</td></tr><tr><td>RCR</td><td colspan="3"></td><td colspan="3"></td><td colspan="3"></td></tr><tr><td>0</td><td>95</td><td>95</td><td>95</td><td>93</td><td>93</td><td>93</td><td>90</td><td>90</td></tr><tr><td>1</td><td>89</td><td>84</td><td>81</td><td>86</td><td>82</td><td>80</td><td>80</td><td>77</td></tr><tr><td>2</td><td>81</td><td>75</td><td>69</td><td>79</td><td>73</td><td>68</td><td>70</td><td>67</td></tr><tr><td>3</td><td>75</td><td>67</td><td>59</td><td>72</td><td>65</td><td>59</td><td>63</td><td>57</td></tr><tr><td>4</td><td>68</td><td>59</td><td>53</td><td>67</td><td>58</td><td>52</td><td>56</td><td>51</td></tr><tr><td>5</td><td>63</td><td>54</td><td>46</td><td>61</td><td>53</td><td>46</td><td>51</td><td>45</td></tr><tr><td>6</td><td>58</td><td>47</td><td>41</td><td>56</td><td>47</td><td>40</td><td>46</td><td>40</td></tr><tr><td>7</td><td>55</td><td>44</td><td>36</td><td>53</td><td>42</td><td>36</td><td>41</td><td>35</td></tr><tr><td>8</td><td>51</td><td>40</td><td>34</td><td>50</td><td>40</td><td>33</td><td>39</td><td>33</td></tr><tr><td>9</td><td>47</td><td>36</td><td>30</td><td>46</td><td>36</td><td>29</td><td>35</td><td>29</td></tr><tr><td>10</td><td>45</td><td>34</td><td>28</td><td>44</td><td>34</td><td>28</td><td>33</td><td>28</td></tr></table>								pcc	80			70			50			pw	70	50	30	70	50	30	50	30	RCR										0	95	95	95	93	93	93	90	90	1	89	84	81	86	82	80	80	77	2	81	75	69	79	73	68	70	67	3	75	67	59	72	65	59	63	57	4	68	59	53	67	58	52	56	51	5	63	54	46	61	53	46	51	45	6	58	47	41	56	47	40	46	40	7	55	44	36	53	42	36	41	35	8	51	40	34	50	40	33	39	33	9	47	36	30	46	36	29	35	29	10	45	34	28	44	34	28	33	28
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		45	2176	2313	2430																																																																																																																																								
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		75	433	346	495																																																																																																																																								
		80	317	289	371																																																																																																																																								
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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

