

4' OR 8'
1, 2, or 3 Lamp
T8, T5, or T5HO

APPLICATION

- Durable, high efficiency industrial luminaire.
- Designed around T8 and T5 lamps and low-profile electronic ballasts.
- Optional specular reflectors (SI option) can be installed after building construction is complete, to eliminate cleaning. Installation of reflectors does NOT require removal of lamps.
- Optional specular reflectors are protected from external impacts and HVAC “shimmering” by steel housing and provide a narrow focused distribution.
- Suitable for individual or continuous row mounting.

CONSTRUCTION/FINISH

- Integral ballast channel eliminates the need to attach a reflector after mounting the channel.
- Locking lampholders provide positive contact and secure retention of lamps.
- Housing is multi-stage phosphate treated for maximum corrosion resistance, and finish is baked white enamel.
- Optional black external housing (BLK option) with white end caps makes the luminaire disappear into unpainted ceilings.

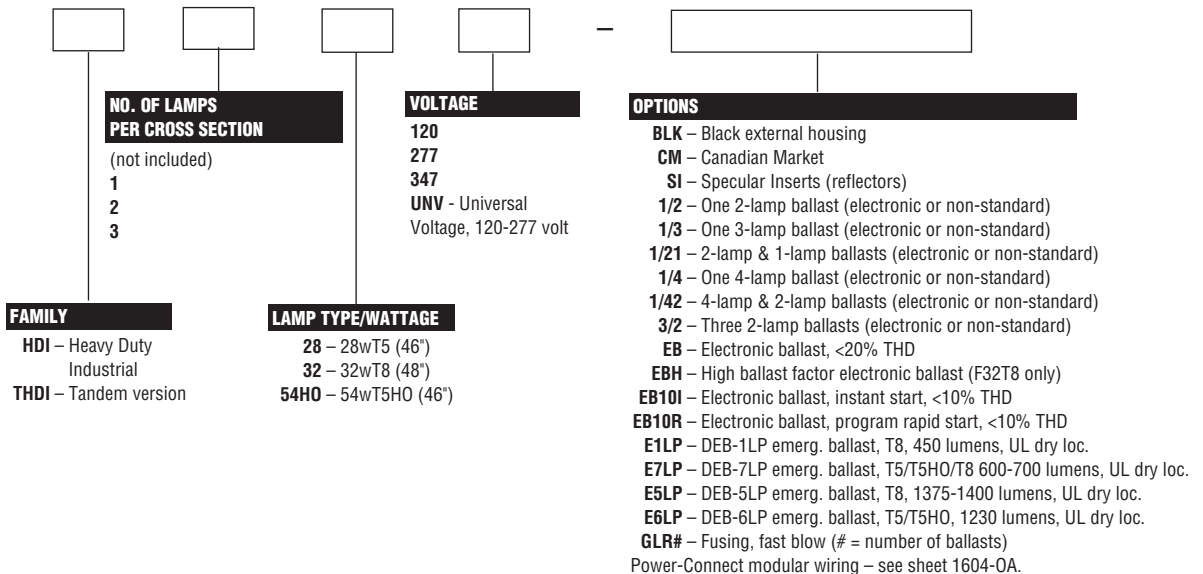
ELECTRICAL

- Class P, HPF ballasts comply with ©Federal Ballast Law (Public Law 100-357, 1988).
- Canadian certified optional.
- (Low-Profile) Self-contained fluorescent emergency power packs can be incorporated. (UL dry location)
- High ballast factor electronic ballast available for increased light output.
- UL listed for damp locations. Units incorporating emergency ballasts UL listed for dry locations.

ACCESSORIES

- **E4-HKK** – sliding hanger bracket with 7/8" hole (one)
- **E4-HKS** – sliding hanger bracket with 1/4" x 1" slot (one)
- **E4-CHK** – Chain hanger hooks (pair) (chain not included, requires FL-123 or similar)
- **FL-123** – 5' chain set (two chains) (**requires E4-CHK**)
- **CS-400** – Rigid stem canopy
- **CS-500** – Swivel stem canopy
- **CS series stems**
- **N-3380/3381** – Universal joint aligner, octagonal box, 1/2" / 3/4" I.P.S.
- **N-3385** – Universal joint aligner, square box, 1/2" I.P.S.
- **HDI-173** – 4' wire guard

CATALOG NUMBER

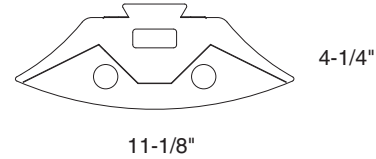
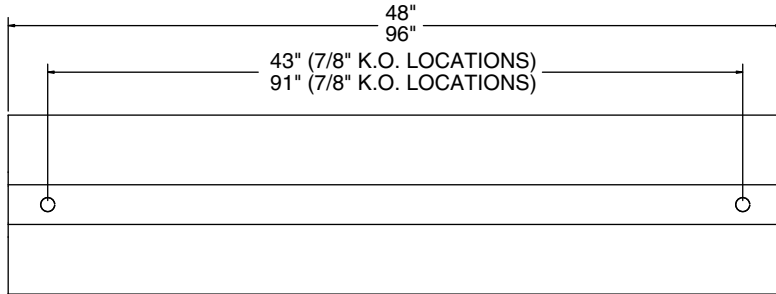


See section 1600-OA for option information.

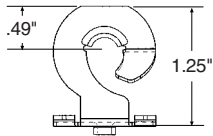
HEAVY DUTY INDUSTRIAL



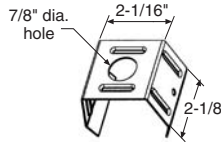
DIMENSIONS



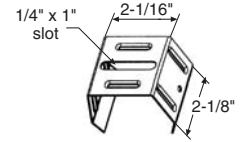
E4-CHK chain hanger



E4-HKK mounting bracket



E4-HKS mounting bracket



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

PHOTOMETRIC DATA

CATALOG # HDI232-1/2-EB
TEST #22333

S/MH= 1.2

LAMPS = F32T8
BALLAST = ELECTRONIC

INPUT WATTS = 59
BALLAST FACTOR = .88

LER = 78

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.08 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 92.2%

CANDLEPOWER				
Angle	End	45	Cross	
0	1570	1570	1570	
5	1569	1564	1553	
10	1551	1542	1529	
15	1520	1508	1492	
20	1478	1460	1443	
25	1422	1398	1385	
30	1357	1330	1320	
35	1281	1251	1250	
40	1193	1162	1187	
45	1095	1073	1136	
50	989	992	1076	
55	873	911	1037	
60	752	834	984	
65	620	770	901	
70	483	680	804	
75	339	575	686	
80	194	447	536	
85	63	282	334	

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.75 2850 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	70 ft-c	100 ft-c
2 LAMP T8	5	-	133	80	57	40
	2	-	87	52	37	-
	1	-	63	38	-	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	4546	4455	4716
55	4468	4663	5307
65	4307	5349	6259
75	3845	6522	7781
85	2122	9498	11250

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.91 @ 40% RATED LAMP LIFE BF = 0.88 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

COEFFICIENT OF UTILIZATION

pfc pcc pw	20			70			50		
	70	50	30	70	50	30	50	30	50
RCR	0	110	110	110	107	107	107	102	102
	1	97	93	88	95	91	86	86	82
	2	88	80	72	85	78	70	75	68
	3	80	68	60	78	68	59	65	57
RCR	4	72	60	52	70	59	51	56	50
	5	67	54	45	65	53	45	51	44
	6	61	48	40	59	47	39	46	39
	7	56	44	34	55	42	34	41	34
RCR	8	53	40	32	52	39	32	38	30
	9	50	36	28	47	35	28	34	28
	10	46	34	26	45	33	26	32	26

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1221	21.4	23.2
0-40	2008	35.2	38.2
0-60	3684	64.6	70.1
0-90	5253	92.2	100.0

PHOTOMETRIC DATA

CATALOG # HDI232-1/2-EB-SI
TEST #22332

S/MH= 1.0

LAMPS = F32T8
BALLAST = ELECTRONIC

INPUT WATTS = 58
BALLAST FACTOR = .88

LER = 81

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.96 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 93.2%

CANDLEPOWER				
Angle	End	45	Cross	
0	1939	1939	1939	
5	1926	1897	1861	
10	1899	1794	1726	
15	1854	1670	1591	
20	1791	1549	1468	
25	1713	1425	1370	
30	1620	1313	1325	
35	1508	1234	1278	
40	1385	1164	1240	
45	1251	1084	1183	
50	1104	1026	1106	
55	945	937	1022	
60	784	828	912	
65	617	724	844	
70	451	617	781	
75	291	548	624	
80	151	394	462	
85	45	249	295	

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.75 2850 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	70 ft-c	100 ft-c
2 LAMP T8	5	-	136	81	58	41
	2	-	90	54	39	-
	1	-	65	39	-	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	5194	4500	4911
55	4837	4796	5231
65	4286	5029	5863
75	3301	6216	7078
85	1516	8387	9936

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.91 @ 40% RATED LAMP LIFE BF = 0.88 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

COEFFICIENT OF UTILIZATION

pfc pcc pw	20			70			50		
	70	50	30	70	50	30	50	30	50
RCR	0	111	111	111	108	108	108	104	104
	1	100	94	90	96	93	88	89	84
	2	90	81	75	88	80	72	76	70
	3	81	70	63	79	69	61	67	59
RCR	4	75	63	54	72	61	53	58	52
	5	68	56	46	67	55	46	53	46
	6	63	50	41	61	50	40	47	40
	7	58	46	36	56	45	36	42	35
RCR	8	55	41	34	53	40	33	40	33
	9	51	38	29	50	38	29	36	29
	10	47	34	28	46	34	28	34	27

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1338	23.5	25.2
0-40	2151	37.7	40.5
0-60	3850	67.5	72.5
0-90	5311	93.2	100.0

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