

# CHANNEL HIGH BAY INDUSTRIAL

# HL

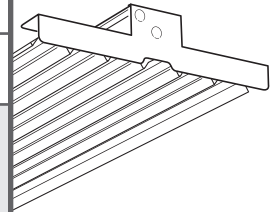
**SUBMITTAL:**

**6-Lamp T5**

**JOB:**

**TYPE:**

**VOLTAGE:**



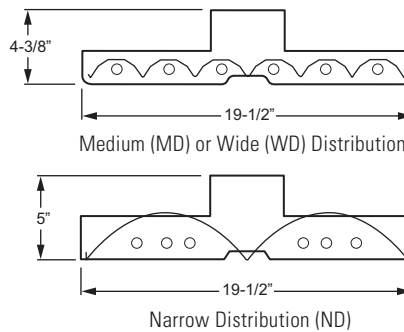
**EXAMPLE** → **HL - 4 - 6 54T5H - MD - OPTIONS - EB4/2 - UNV**

SERIES    NOMINAL LENGTH    TOTAL LAMPS    WATTAGE/TYPE    DISTRIBUTION    OPTIONS/ACCESSORIES    BALLAST TYPE    VOLTAGE



## FEATURES

- ▶ Up to **97.2% optical efficiency**.
- ▶ Consumes less energy than metal halide or HPS and delivers comparable light levels when replaced one-for-one.
- ▶ Multiple distributions and uplight options available.
- ▶ Medium distribution using precision-formed highly reflective aluminum reflector is standard.
- ▶ Wide distribution option features a highly reflective white painted aluminum reflector.
- ▶ Quick-wire access plate in back of fixture housing for easy attachment of incoming power supply.
- ▶ Versatile mounting options available.
- ▶ This fixture is proudly made in the USA.



**NOTE:** HL ships without lamps. For lamp options please consult factory.

## SPECIFICATIONS

**Housing** – 20-gauge die-formed C.R.S.

**Reflector** – Precision-formed 95% reflective highly specular aluminum.

**Finish** – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.

**Electrical** – Electronic ballast standard, program start T5, rated Class P.

**Mounting** – Suspended (see options in ordering information).

**Labels** – UL/CUL listed as fluorescent luminaire suitable for dry or damp locations.

## ORDERING INFORMATION

**SERIES**  
**HL** Channel High Bay Industrial

**NOMINAL LENGTH**  
**4** 4'

**TOTAL LAMPS**  
**6**

**LAMP WATTAGE/TYPE**  
**54T5H** 4', 54-watt T5HO

**DISTRIBUTION** (Must specify)

**MD** Medium distribution, specular reflector (standard)

**ND** Narrow distribution, specular reflector

**WD** Wide distribution, white reflector

**MDUP** Medium distribution with uplight, specular reflector

**NDUP** Narrow distribution with uplight, specular reflector

**WDUP** Wide distribution with uplight, white reflector

**OPTIONS/ACCESSORIES**

Due to limited ballast space, please consult factory for EM ballast options.

For **occupancy sensor** options (must specify voltage), see Fluorescent Information section.

**VBY** (2) Y-hangers

**VBY-2** (2) Y-hangers and (2) 2' chains

**GC2/Y18/5** Cable suspension kit, 5' length (1 pair)

**GC2/Y18/10** Cable suspension kit, 10' length (1 pair)

**OPTIONS/ACCESSORIES** (Continued)

**HUB MT 3/4"** Cast iron hub and junction box for single 3/4" pendant mount (shipped not attached)

**HUB/HOOK MT** Cast iron hub with mounting hook (shipped not attached)

**HOOK/CABLE S7238/B** Hook and cable mounting kit, 10' 72" cord, 3 conductor, No. 18 AWG, black

**6CPI/L5-15P/TWLK** 6' cord and NEMA twistlock 15 AMP plug, 120V

**6CPI/L7-15P/TWLK** 6' cord and NEMA twistlock 15 AMP plug, 277V

**WG11** 11-gauge wireguard, white powder coated (not recommended for high abuse areas)

**BALLAST TYPE**

Due to size restrictions, ballast options restricted **ONLY to combination listed below.**

**EB4/2** (1) 4-lamp and (1) 2-lamp electronic ballast

**VOLTAGE**

Must specify voltage (not UNV) if using modular wiring, cord and plug, or occupancy sensor.

<b>120</b>	120V	<b>UNV</b>	120-277V
<b>208</b>	208V	<b>347</b>	347V
<b>240</b>	240V	<b>480</b>	480V
<b>277</b>	277V		

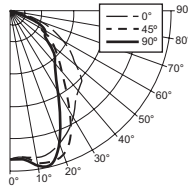
## 6-Lamp T5

### PHOTOMETRY – MD DISTRIBUTION

Catalog #: HL-4-654T5H-MD-EB4/2

#### TEST REPORT INFORMATION

- ▶ Test Report #: 13916.0
- ▶ Date: 01/15/08
- ▶ Lamp Type: FP54T5H0/835
- ▶ Lamp Quantity: 6



#### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	10140.	33.8	36.1
0 - 40	15295.	51.0	54.4
0 - 60	24133.	80.4	85.9
0 - 90	28108.	93.7	100.0
<b>Total Luminaire:</b>			
0 - 180	28108.	93.7	100.0

Total Luminaire Optical Efficiency: **93.7%**  
IES Spacing Criteria: End = 1.2, Diagonal = 1.2, Across = 1.0

#### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	12792.	12792.	12792.	
5°	12651.	12746.	12899.	1218.
15°	12610.	13386.	13552.	3749.4
25°	11365.	11887.	9685.	5172.2
35°	9507.	7916.	6471.	5155.3
45°	8495.	5721.	5122.	5074.6
55°	6134.	3792.	3487.	3763.2
65°	3932.	2360.	2532.	2680.8
75°	1800.	1145.	782.	1169.0
85°	260.	70.	50.	125.2
90°	0.	0.	0.	

#### ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor			
	.80	.70	.50	.80	.70	.50	.80	.70	.50	
Room Cavity Ratio	0	1.12	1.12	1.12	1.09	1.09	1.09	1.04	1.04	1.04
	1	1.04	1.00	.97	1.02	.98	.95	.94	.92	.90
	2	.96	.90	.85	.94	.88	.83	.85	.81	.77
	3	.89	.81	.74	.87	.79	.73	.77	.72	.67
	4	.82	.73	.65	.80	.71	.65	.69	.63	.59
	5	.76	.65	.57	.74	.64	.57	.62	.56	.51
	6	.70	.59	.51	.69	.58	.51	.56	.50	.45
	7	.65	.53	.46	.64	.53	.45	.51	.45	.40
	8	.60	.48	.41	.59	.48	.41	.46	.40	.35
	9	.56	.44	.36	.54	.43	.36	.42	.36	.31
	10	.52	.40	.33	.51	.39	.32	.38	.32	.28

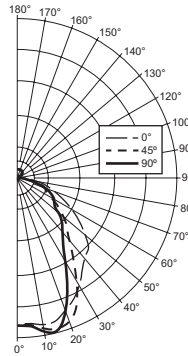
Effective Floor Cavity Reflectance = .20

### PHOTOMETRY – MDUP DISTRIBUTION

Catalog #: HL-4-654T5H-MDUP-EB4/2

#### TEST REPORT INFORMATION

- ▶ Test Report #: 13917.0
- ▶ Date: 01/15/08
- ▶ Lamp Type: FP54T5H0/835
- ▶ Lamp Quantity: 6



#### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	9858.	32.9	33.8
0 - 40	14857.	49.5	50.9
0 - 60	23413.	78.0	80.3
0 - 90	27414.	91.4	94.0
90 - 120	276.	0.9	0.9
90 - 130	575.	1.9	2.0
90 - 150	1251.	4.2	4.3
90 - 180	1758.	5.9	6.0
<b>Total Luminaire:</b>			
0 - 180	29172.	97.2	100.0

Total Luminaire Optical Efficiency: **97.2%**  
IES Spacing Criteria: End = 1.2, Diagonal = 1.1, Across = 1.0

#### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	12432.	12432.	12432.	
5°	12313.	12403.	12523.	1184.7
15°	12336.	13062.	13157.	3655.0
25°	11092.	11422.	9462.	5018.3
35°	9259.	7642.	6300.	4999.3
45°	8222.	5511.	4989.	4873.9
55°	5931.	3652.	3589.	3681.8
65°	3799.	2481.	2577.	2688.7
75°	1750.	1158.	776.	1182.0
85°	273.	76.	63.	130.7
90°	31.	38.	31.	
95°	12.	6.	6.	9.0
105°	89.	50.	38.	70.2
115°	159.	216.	171.	196.8
125°	260.	369.	350.	299.4
135°	350.	451.	502.	340.8
145°	464.	534.	604.	334.5
155°	534.	572.	617.	266.0
165°	636.	649.	661.	184.3
175°	591.	598.	598.	57.0
180°	580.	580.	580.	

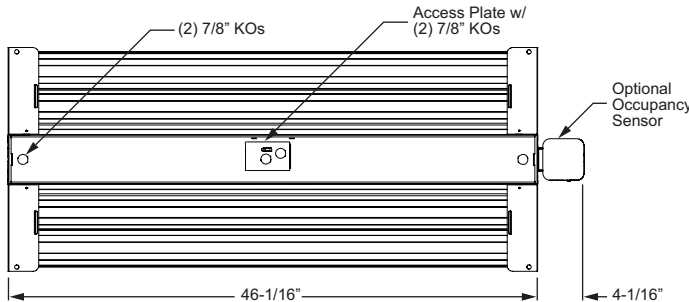
#### ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor			
	.80	.70	.50	.80	.70	.50	.80	.70	.50	
Room Cavity Ratio	0	1.14	1.14	1.14	1.11	1.11	1.11	1.05	1.05	1.05
	1	1.06	1.03	.99	1.03	1.00	.97	.95	.92	.90
	2	.98	.92	.86	.95	.89	.84	.85	.81	.77
	3	.91	.82	.76	.88	.80	.74	.77	.72	.67
	4	.84	.74	.66	.82	.72	.65	.69	.63	.59
	5	.77	.66	.58	.75	.65	.57	.62	.56	.51
	6	.72	.60	.52	.69	.59	.51	.56	.50	.45
	7	.66	.54	.46	.64	.53	.46	.51	.45	.40
	8	.61	.49	.41	.60	.48	.41	.46	.40	.35
	9	.57	.44	.37	.55	.44	.36	.42	.35	.31
	10	.53	.40	.33	.51	.40	.33	.38	.32	.28

Effective Floor Cavity Reflectance = .20

### FIXTURE DETAILS

#### BACK VIEW



#### FIXTURE INFORMATION

Distribution	Spacing Criteria		
	End	Diagonal	Across
Narrow	1.2	0.9	0.6
Medium	1.2	1.2	1.0
Wide	1.2	1.4	1.3