

CHANNEL HIGH BAY INDUSTRIAL

HL

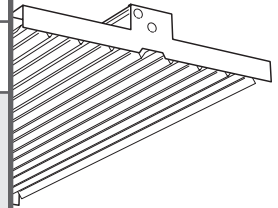
SUBMITTAL:

8-Lamp T5

JOB:

TYPE:

VOLTAGE:



EXAMPLE

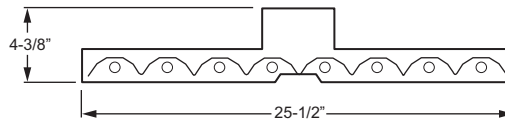
HL - 4 - 8 54T5H - MD - OPTIONS - EB4/4 - UNV

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



FEATURES

- ▶ Up to **96.2% 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

8

LAMP WATTAGE/TYPE

54T5H 4', 54-watt T5HO

DISTRIBUTION (Must specify)

MD Medium distribution, specular reflector (standard)
WD Wide distribution, white reflector
MDUP Medium 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.**

EB4/4 (2) 4-lamp electronic ballasts

VOLTAGE

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

120	120V	UNV	120-277V
208	208V	347	347V
240	240V	480	480V
277	277V		

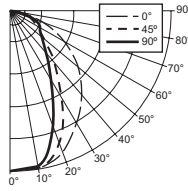
8-Lamp T5

PHOTOMETRY – MD DISTRIBUTION

Catalog #: HL-4-854T5H-MD-EB4/4

TEST REPORT INFORMATION

- ▶ Test Report #: 14061.0
- ▶ Date: 04/15/08
- ▶ Lamp Type: FP54T5H0/835
- ▶ Lamp Quantity: 8



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	13868.	34.7	37.4
0 - 40	20662.	51.7	55.7
0 - 60	31195.	78.0	84.1
0 - 90	37114.	92.8	100.0
Total Luminaire:			
0 - 180	37114.	92.8	100.0

Total Luminaire Optical Efficiency: **92.8%**
IES Spacing Criteria: End = 1.2, Diagonal = 1.0, Across = 0.9

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	19229.	19229.	19229.	
5°	19192.	19140.	19182.	1831.2
15°	18789.	18557.	17451.	5201.2
25°	17000.	14788.	12135.	6835.4
35°	14433.	10050.	8042.	6793.7
45°	11892.	6603.	5624.	5900.3
55°	8916.	4123.	4328.	4633.4
65°	5817.	3004.	3686.	3564.4
75°	2580.	1925.	1884.	1984.1
85°	327.	368.	259.	370.1
90°	0.	0.	0.	

ZONAL CAVITY COEFFICIENTS

Room Cavity Ratio	Ceiling			Wall			Floor		
	.80	.70	.50	.80	.70	.50	.30	.20	.10
0	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03
1	1.03	.99	.96	1.00	.97	.94	.93	.91	.88
2	.95	.88	.83	.93	.87	.82	.84	.79	.76
3	.88	.80	.73	.86	.78	.72	.76	.70	.66
4	.81	.72	.64	.79	.70	.64	.68	.62	.58
5	.75	.64	.57	.73	.63	.56	.61	.55	.51
6	.70	.58	.51	.68	.58	.51	.56	.50	.45
7	.65	.53	.46	.63	.52	.45	.51	.45	.40
8	.60	.48	.41	.59	.48	.41	.46	.40	.36
9	.56	.44	.37	.54	.43	.36	.42	.36	.31
10	.52	.40	.33	.51	.40	.33	.39	.33	.28

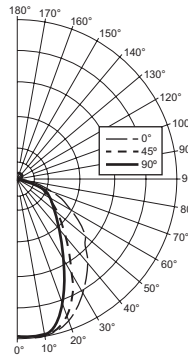
Effective Floor Cavity Reflectance = .20

PHOTOMETRY – MDUP DISTRIBUTION

Catalog #: HL-4-854T5H-MDUP-EB4/4

TEST REPORT INFORMATION

- ▶ Test Report #: 14062.0
- ▶ Date: 04/15/08
- ▶ Lamp Type: FP54T5H0/835
- ▶ Lamp Quantity: 8



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	13365.	33.4	34.7
0 - 40	20116.	50.3	52.3
0 - 60	30847.	77.1	80.2
0 - 90	36242.	90.6	94.2
90 - 120	411.	1.0	1.1
90 - 130	797.	2.0	2.1
90 - 150	1633.	4.1	4.2
90 - 180	2224.	5.6	5.8
Total Luminaire:			
0 - 180	38466.	96.2	100.0

Total Luminaire Optical Efficiency: **96.2%**
IES Spacing Criteria: End = 1.2, Diagonal = 1.1, Across = 0.9

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	18033.	18033.	18033.	
5°	18046.	18144.	18048.	1726.3
15°	17754.	17697.	16956.	4974.6
25°	16049.	14538.	12260.	6663.8
35°	13601.	10093.	8457.	6750.9
45°	10718.	6678.	6104.	5926.6
55°	8387.	4613.	4543.	4804.6
65°	5480.	3145.	3397.	3533.0
75°	2446.	1565.	1188.	1630.1
85°	307.	195.	139.	232.2
90°	0.	0.	0.	
95°	0.	12.	14.	12.0
105°	84.	139.	69.	119.8
115°	195.	307.	293.	278.8
125°	321.	461.	475.	386.9
135°	419.	574.	643.	424.5
145°	572.	656.	726.	411.3
155°	643.	671.	713.	312.9
165°	729.	758.	758.	213.7
175°	667.	677.	668.	64.4
180°	656.	656.	656.	

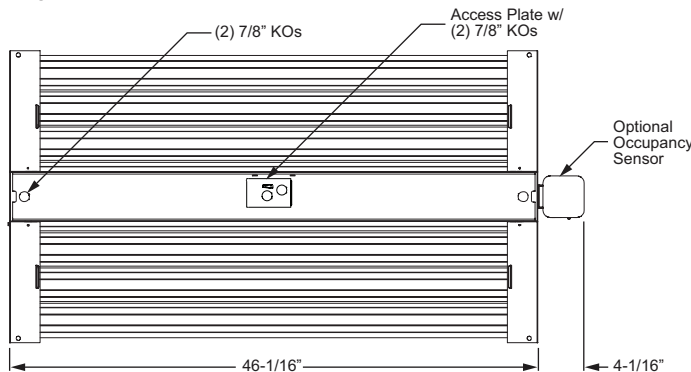
ZONAL CAVITY COEFFICIENTS

Room Cavity Ratio	Ceiling			Wall			Floor		
	.80	.70	.50	.80	.70	.50	.30	.20	.10
0	1.13	1.13	1.13	1.10	1.10	1.10	1.04	1.04	1.04
1	1.05	1.02	.98	1.02	.99	.96	.94	.91	.89
2	.97	.91	.85	.94	.89	.84	.84	.80	.77
3	.90	.82	.75	.87	.80	.74	.76	.71	.67
4	.83	.73	.66	.81	.72	.65	.69	.63	.58
5	.77	.66	.58	.74	.64	.57	.62	.56	.51
6	.71	.60	.52	.69	.58	.51	.56	.50	.45
7	.66	.54	.46	.64	.53	.46	.51	.45	.40
8	.61	.49	.41	.59	.48	.41	.46	.40	.35
9	.57	.44	.37	.55	.44	.37	.42	.36	.31
10	.53	.41	.33	.51	.40	.33	.39	.32	.28

Effective Floor Cavity Reflectance = .20

FIXTURE DETAILS

BACK VIEW



FIXTURE INFORMATION

Distribution	Spacing Criteria		
	End	Diagonal	Across
Medium	1.2	1.0	0.9
Wide	1.3	1.5	1.3