

CHANNEL HIGH BAY INDUSTRIAL

HL

SUBMITTAL:

4-Lamp T5

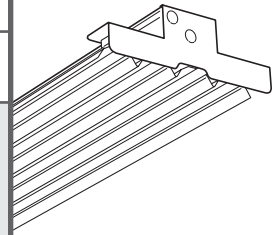
JOB:

TYPE:

VOLTAGE:

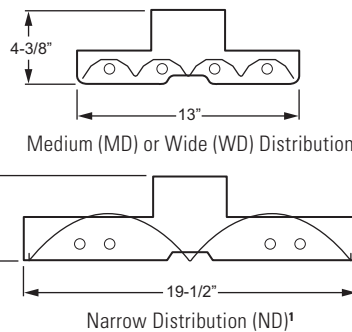
EXAMPLE HL - 4 - 4 54T5H - MD - OPTIONS - EB4 - UNV

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



FEATURES

- ▶ Up to **97.6% 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

4

LAMP WATTAGE/TYPE

54T5H 4', 54-watt T5HO

DISTRIBUTION (Must specify)

MD Medium distribution, specular reflector (standard)

ND¹ Narrow distribution, specular reflector¹

WD Wide distribution, white reflector

MDUP Medium distribution with uplight, specular reflector

NDUP¹ Narrow distribution with uplight, specular reflector¹

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 combinations listed below.**

EB4 4-lamp electronic ballast

EB2/2 (2) 2-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		

¹ 4-lamp fixture with ND option uses 6-lamp fixture housing.

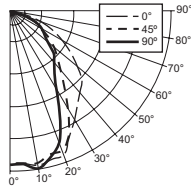
4-Lamp T5

PHOTOMETRY – MD DISTRIBUTION

Catalog #: HL-4-454T5H-MD-EB4

TEST REPORT INFORMATION

- ▶ Test Report #: 13918.0
- ▶ Date: 01/15/08
- ▶ Lamp Type: FP54T5H0/835
- ▶ Lamp Quantity: 4



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	6913.	34.6	36.2
0 - 40	10434.	52.2	54.7
0 - 60	16417.	82.1	86.0
0 - 90	19082.	95.4	100.0
Total Luminaire:			
0 - 180	19082.	95.4	100.0

Total Luminaire Optical Efficiency: **95.4%**
IES Spacing Criteria: End = 1.2, Diagonal = 1.1, Across = 1.0

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	8958.	8958.	8958.	
5°	8926.	8964.	9020.	855.9
15°	8647.	8983.	8864.	2512.1
25°	8031.	7937.	6730.	3545.4
35°	6687.	5424.	4404.	3520.2
45°	5841.	3807.	3514.	3407.1
55°	4230.	2587.	2413.	2576.5
65°	2712.	1642.	1642.	1802.6
75°	1244.	740.	472.	781.0
85°	174.	55.	31.	81.7
90°	0.	0.	0.	

ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor		
	.80	.70	.50	.80	.70	.50	.80	.70	.50
0	1.14	1.14	1.14	1.11	1.11	1.11	1.06	1.06	1.06
1	1.06	1.02	.99	1.03	1.00	.97	.96	.94	.91
2	.98	.92	.86	.96	.90	.85	.87	.82	.79
3	.91	.82	.76	.89	.81	.75	.78	.73	.69
4	.84	.74	.67	.82	.73	.66	.71	.65	.60
5	.77	.66	.59	.75	.65	.58	.63	.57	.52
6	.72	.60	.52	.70	.59	.52	.58	.51	.46
7	.66	.54	.47	.65	.54	.46	.52	.46	.41
8	.61	.49	.42	.60	.49	.41	.47	.41	.36
9	.57	.44	.37	.55	.44	.37	.43	.36	.32
10	.53	.41	.33	.52	.40	.33	.39	.33	.28

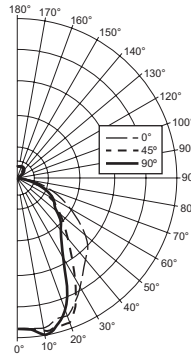
Effective Floor Cavity Reflectance = .20

PHOTOMETRY – MDUP DISTRIBUTION

Catalog #: HL-4-454T5H-MDUP-EB4

TEST REPORT INFORMATION

- ▶ Test Report #: 13919.0
- ▶ Date: 01/15/08
- ▶ Lamp Type: FP54T5H0/835
- ▶ Lamp Quantity: 4



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	6411.	32.1	32.8
0 - 40	9664.	48.3	49.5
0 - 60	15197.	76.0	77.8
0 - 90	17852.	89.3	91.4
90 - 120	248.	1.2	1.3
90 - 130	481.	2.4	2.5
90 - 150	1157.	5.8	5.9
90 - 180	1671.	8.4	8.6
Total Luminaire:			
0 - 180	19524.	97.6	100.0

Total Luminaire Optical Efficiency: **97.6%**
IES Spacing Criteria: End = 1.2, Diagonal = 1.2, Across = 1.0

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	8244.	8244.	8244.	
5°	8223.	8255.	8323.	789.0
15°	7993.	8373.	8305.	2337.2
25°	7390.	7384.	6189.	3284.9
35°	6164.	5001.	4055.	3253.4
45°	5356.	3471.	3253.	3121.5
55°	3881.	2395.	2376.	2410.8
65°	2475.	1629.	1716.	1759.0
75°	1150.	790.	522.	795.0
85°	167.	68.	68.	101.3
90°	12.	43.	49.	
95°	12.	18.	31.	20.6
105°	80.	68.	55.	70.0
115°	174.	136.	130.	157.6
125°	267.	279.	205.	232.6
135°	373.	485.	385.	330.9
145°	472.	553.	615.	345.0
155°	559.	597.	634.	276.3
165°	615.	634.	652.	179.6
175°	615.	615.	622.	59.0
180°	598.	598.	598.	

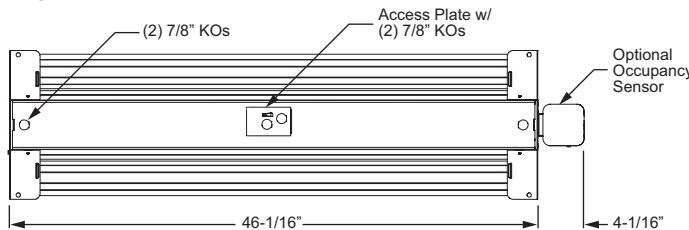
ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor		
	.80	.70	.50	.80	.70	.50	.80	.70	.50
0	1.14	1.14	1.14	1.11	1.11	1.11	1.04	1.04	1.04
1	1.06	1.02	.99	1.03	.99	.96	.94	.91	.89
2	.98	.91	.86	.95	.89	.84	.84	.80	.76
3	.91	.82	.75	.88	.80	.74	.76	.71	.66
4	.84	.74	.66	.81	.72	.65	.68	.63	.58
5	.77	.66	.58	.74	.64	.57	.61	.55	.50
6	.71	.60	.52	.69	.58	.51	.56	.49	.44
7	.66	.54	.46	.64	.53	.45	.51	.44	.39
8	.61	.49	.41	.59	.48	.40	.46	.39	.35
9	.56	.44	.37	.55	.43	.36	.41	.35	.31
10	.53	.40	.33	.51	.39	.33	.38	.32	.27

Effective Floor Cavity Reflectance = .20

FIXTURE DETAILS

BACK VIEW



FIXTURE INFORMATION

Distribution	Spacing Criteria		
	End	Diagonal	Across
Narrow	1.2	0.8	0.6
Medium	1.2	1.1	1.0
Wide	1.2	1.4	1.3