

## FEATURES & SPECIFICATIONS

### INTENDED USE

Use in high-mounting heights that require high efficiencies and horizontal illumination. Ideal for general manufacturing areas, storage areas and warehouse aisles where color is critical.

### CONSTRUCTION

Housing – Heavy-duty, die-cast aluminum halves. Ballast and electrical components are heat-sunked and horizontally opposed. Integral splice box mounting flange ensures structural integrity.

### FINISH

Housing – Electrostatically applied white polyester powder paint.

### OPTICAL SYSTEM

High-efficiency, anodized, spun aluminum reflector features, exclusive contoured design that minimizes color shift. Self-cleaning ventilated design carries contaminants out of the top of the reflector. Optical System is adjustable and accommodates the full range of light distributions.

### ELECTRICAL SYSTEM

Ballast – 100% factory tested. High power factor constant-wattage autotransformer. Encased and potted solid-state igniters. 180°C Class H insulation system. Meets ANSI C82 ballast standards.

Socket – Glazed porcelain, vertically oriented, mogul base socket with copper alloy, nickel-plated screws, shell and center contact. UL listed 1500W, 600V and 4KV pulse rated. Non protected socket for Type-S suitable rated lamps.

### INSTALLATION

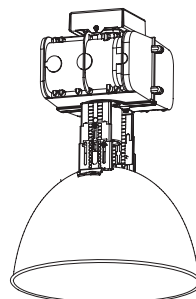
Pendant Splice Box - Removable cast-aluminum box slides on integral die-cast aluminum housing mounting flange and mounts to 3/4" pendant conduit prior to ballast housing installation. Matching wire access cover accepts Reloc modular wiring. Complete assembly meets or exceeds UL 50-pound pull test.

Optic Mounting – Reflector mounting brackets are progressively die-formed of 18-gauge galvanized steel.

### LISTINGS

UL listed -30°C to 55°C ambient operations & damp locations. High ambient (HA option) of 65°C available.

Catalog Number	
Notes	Type



## Open High Bay Industrial Lighting

# TH A15

### ALUMINUM OPTICAL

#### Metal Halide

250 - 1000W

#### High Pressure Sodium

250 - 400W

18' to 30' (5m to 10m) Mounting

### Specifications

Installed height: 19-1/2" (49.50cm)

Installed width: 14-1/8" (35.90cm)

Weight: 21 lbs/10 kg

## ORDERING INFORMATION

Example: TH 400M A15 23050HZ

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog numbers (shipped separately).

TH		A15		Options	
Series	Wattage/lamp	Reflector	Voltage		
TH	<u>High pressure sodium</u> 250S 400S <u>Metal halide</u> 250M 400M 1000M	A15 Aluminum reflector	12050HZ 23050HZ <sup>1</sup>	<b>Shipped installed in fixture</b> <b>SF</b> Single fuse <b>EC</b> Emergency circuit <sup>2,3</sup> <b>QRS</b> Quartz restrike system <sup>2,3</sup> <b>HA</b> 65°C ambient operation <b>CR</b> Corrosion-resistant finish <b>TOB</b> Through-wire outlet box <b>PBP</b> Pendant box plug-in	
				<b>LCPP</b> Loop, cord, plug requires TPH, PPH <b>LC3</b> Loop, 3' (1m) cord <b>LOCS</b> Loop, 5' white cord, Reloc OCS <sup>1,4</sup> <b>HOCS</b> Hook, 5' white cord, Reloc OCS <sup>1,4</sup> <b>TR</b> Remote ballast <b>RC3NP</b> TR with prewired 3' cord	

### Accessories

Order as separate catalog item.

**SCK** 60" safety chain kit

**HKM** Fixture hook male

**HKMG** Grommeted fixture hook male

**LPM** Fixture loop male

**LPMG** Grommeted fixture loop male

**TPH** Through-wire power hook

**PPH** Pendant power hook

**WGA15** Wireguard

### NOTES:

1 Operates 220, 230, and 240Volt 50HZ.

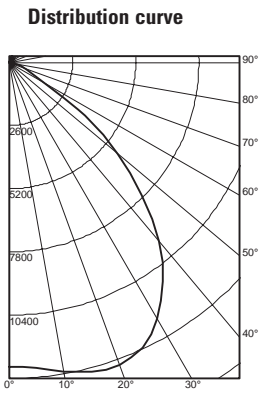
2 Lamp not included.

3 Quartz lamp wattage not to exceed 500 watts.

4 May be ordered with 10', 15' and 20' cords. For black cord, specify **BK** (i.e. **HOCSBK**).

# TH A15 High Bay

TH 400M A15, leg position 10, 400W, clear metal halide lamp, 36,000 rated lumens. Test No. LTL 13747.



ρ f pc pw	Coefficient of utilization													
	80%				50%				30%				10%	
	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	95	95	95	95	89	89	89	85	85	85	81	81	81	79
1	89	86	84	81	81	79	77	78	76	75	75	73	72	71
2	83	78	73	70	73	70	67	70	68	65	68	66	64	62
3	77	70	64	60	66	62	58	64	60	57	62	59	56	55
4	71	63	57	53	60	55	51	58	54	51	56	53	50	48
5	66	57	51	46	55	49	46	53	48	45	51	48	44	43
6	61	52	46	41	50	45	41	48	44	40	47	43	40	38
7	57	48	41	37	46	40	36	44	40	36	43	39	36	34
8	53	44	37	33	42	37	33	41	36	33	40	36	32	31
9	50	40	34	30	39	34	30	38	33	30	37	33	29	28
10	47	37	31	27	36	31	27	35	30	27	34	30	27	26

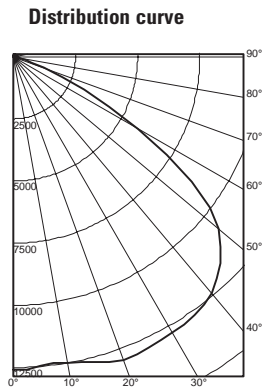
Distribution data		
Angle	c.p.	Lumens
0°	12514	
5°	12629	1216
15°	13173	3733
25°	12948	5937
35°	11019	6856
45°	7721	15934
55°	3799	3346
65°	957	1019
75°	361	392
85°	68	83
90°	19	
95°	15	17
105°	18	20
115°	23	23
125°	35	32
135°	93	79
145°	248	150
155°	195	82
165°	8	2
175°	8	1
180°	8	

Average luminance data		Output data		
Angle	Footlamberts	Zone	Lumens	%lamp
0°		0°-30°	10887	30.2
45°	109876	0°-40°	17743	49.3
55°	66649	0°-60°	27023	75.1
65°	22787	0°-90°	28518	79.2
75°	14035	90°-180°	405	1.1
85°	7851	0°-180°	28923	*100

\* Fixture efficiency

Spacing criterion: 1.5  
Optimum performance achieved at leg position 10.

TH 400S A15, leg position 2, 400W, clear high pressure sodium lamp, 50,000 rated lumens. Test No. LTL 13779.



ρ f pc pw	Coefficient of utilization													
	80%				50%				30%				10%	
	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	94	94	94	94	88	88	88	84	84	84	80	80	80	79
1	87	84	81	79	79	77	75	76	74	73	73	72	70	69
2	80	74	70	66	70	66	63	67	64	62	65	62	60	59
3	73	66	60	55	62	57	54	60	56	53	58	54	52	50
4	67	58	52	47	55	50	46	53	49	45	52	48	44	43
5	62	52	45	40	49	44	40	48	43	39	46	42	39	37
6	57	47	40	35	45	39	34	43	38	34	42	37	34	32
7	53	42	35	31	40	35	30	39	34	30	38	33	30	28
8	49	38	32	27	37	31	27	36	30	27	35	30	27	25
9	46	35	29	24	34	28	24	33	28	24	32	27	24	22
10	43	32	26	22	31	25	22	30	25	22	29	25	21	20

Distribution data		
Angle	c.p.	Lumens
0°	12594	
5°	12488	1192
15°	12702	3614
25°	12901	5970
35°	12695	7948
45°	11757	9038
55°	8741	17642
65°	3169	3249
75°	529	642
85°	94	118
90°	15	
95°	16	17
105°	18	18
115°	21	21
125°	25	26
135°	102	76
145°	125	76
155°	21	20
165°	9	3
175°	9	1
180°	9	

Average luminance data		Output data		
Angle	Footlamberts	Zone	Lumens	%lamp
0°		0°-30°	10776	21.6
45°	167312	0°-40°	18724	37.4
55°	153351	0°-60°	35404	70.8
65°	75455	0°-90°	39412	78.8
75°	20567	90°-180°	258	0.5
85°	10853	0°-180°	39671	*79.3

\* Fixture efficiency

Spacing criterion: 1.5  
Optimum performance achieved at leg position 2.