

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.

ATTRIBUTES — Distributor pack consists of ballast housing, reflector, door lens and lamp together in one carton.

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.

ELECTRICAL SYSTEM — Ballast: All ballasts are 100% factory tested. HPS: Constant wattage autotransformer; MH: Super CWA Pulse Start ballasts, 88% efficient and EISA legislation compliant, are required for 250-450W (must order SCWA option) for US shipments only. CSA, NOM or INTL required for probe start shipments outside the US.

Socket: Vertically oriented mogul base PROTECTED EXCLUSIONARY base "PINK" socket with copper alloy nickel plated screw shell and center contact. For use with "O" rated protected metal halide lamps only.

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. UL Listed to US and Canadian Standards (see Options). NOM Certified (see Options).

Catalog Number	
Notes	Type

Open High Bay Industrial Lighting

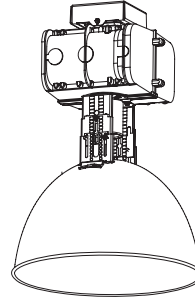
THD A15

DISTRIBUTOR PACK

15" ALUMINUM OPTICAL

Protected Metal Halide
400W
High Pressure Sodium
400W

18' to 30' mounting



Specifications

Installed height: 19-1/2 (49.50)

Installed width: 14-1/8 (35.90)

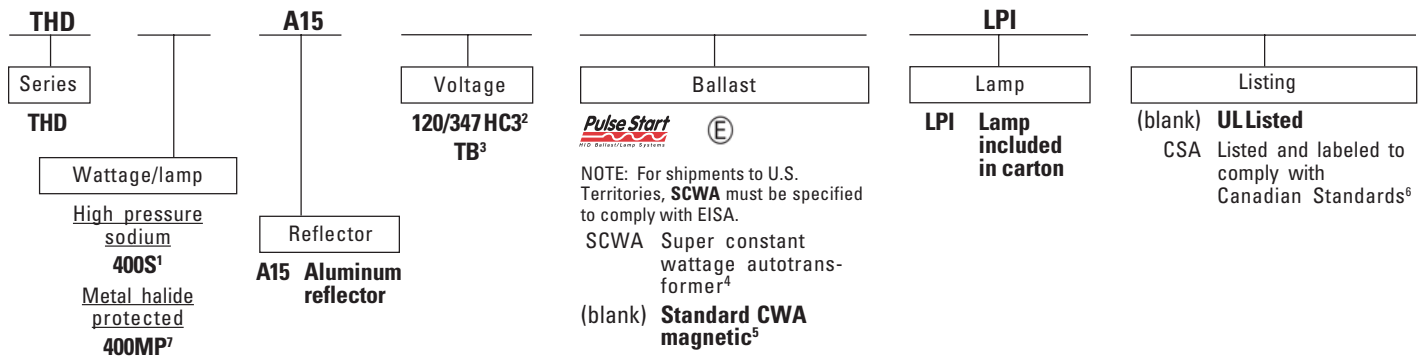
Weight: 21 lbs (10 kg)

All dimensions are inches (centimeters) unless otherwise specified.

ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: THD 400MP A15 TB LPI



Accessories

Order as separate catalog numbers.

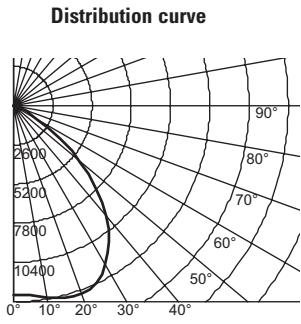
HKM	Fixture hook male
LPM	Fixture loop male
OCS 277 05	RELOC® wiring 277V connector, 5' cord
SCK	60" safety chain kit

NOTES:

- 1 400S available only with TB voltage.
- 2 120/347 HC3 includes hook and 3' cord. Requires CSA listing.
- 3 Multi-tap ballast (120, 208, 240, 277V).
- 4 SCWA available with 400M TB only.
- 5 Available for shipment outside U.S. only.
- 6 CSA available with 120/347 HC3 only.
- 7 These wattages comply with California Title 20.

THD A15 High Bay

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



p f pc pw	Coefficient of utilization													
	70%	80%	30%	10%	50%	20% 50% 30%	10%	50%	30%	10%	50%	10%	30%	10%
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	28

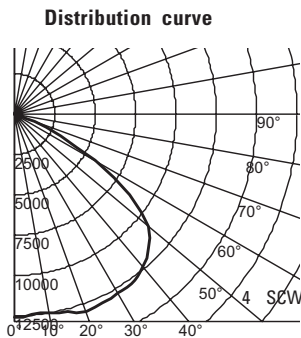
Distribution data		
Angle	cp.	Lumens
0°	12514	
5°	12629	1216
15°	13173	3733
25°	12948	5937
35°	11019	6856
45°	7721	5934
55°	3799	3346
65°	957	1019
75°	361	392
85°	68	83
90°	19	
95°	15	17
105°	18	20
115°	23	23
125°	35	32
135°	93	79
145°	248	150
155°	195	82
165°	8	2
175°	8	1
180°	8	

Spacing criterion: 1.3
Optimum performance achieved at leg position 10.

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	*80.3

* Fixture Efficiency

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



p f pc pw	Coefficient of utilization													
	70%	80%	30%	10%	50%	20% 50% 30%	10%	50%	30%	10%	50%	10%	30%	10%
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	cp.	Lumens
0°	12594	
5°	12488	1192
15°	12702	3614
25°	12901	5970
35°	12695	7948
45°	11757	9038
55°	8741	7642
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	

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

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



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