FEATURES

OPTICAL SYSTEM

- Self-flanged, semi-specular, or matte-diffuse anodized lower reflector. Optically designed to provide 40° cutoff for optimal efficiency and glare control.
- Interchangeable upper reflectors provide narrow, medium and wide distributions. These preset distribution patterns allow designers to achieve various design objectives.
- 1/8" thick softening lens eliminates beam striations and ensures maximum efficiency. Provides required protective shielding.
- Optical system retained by self-aligning torsion support springs.

MECHANICAL SYSTEM

- Black painted housing features tool-less top access and accommodates a maximum 1-1/2" ceiling thickness.
- Tool-less re-lamp capability from above or below ceiling.
- 16-gauge galvanized steel mounting bars with continuous 4" vertical adjustment are shipped pre-installed. Post installation adjustment possible without the use of tools from above or below ceiling.
- Galvanized steel junction box with hinged access covers and spring latch. Three combination 1/2"-3/4" and two 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out) No. 12 AWG conductors rated for 90°C.
- Secondary housing adjustment system for precise, final ceiling to flange alignment.

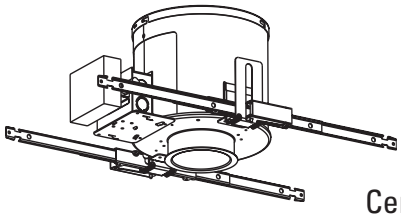
ELECTRICAL SYSTEM

- Tool-less access door provides access to junction box and ballast through the aperture.
- G12 (T6), G8.5 (T4) or PGJ5 (T4T) base ceramic socket.
- Pre-wired, electronic, 120 or 277V ballast module is standard. Assembly can be attached before or after mounting of mounting/plaster frame.
- Thermally activated insulation detector.
- 3000°K lamp ships standard.

LISTING

- Fixtures are UL Listed for thru-branch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Type ..... Catalog number .....

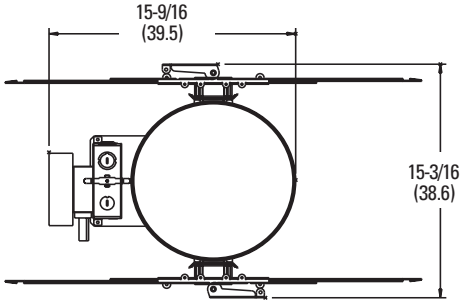


HID Downlights

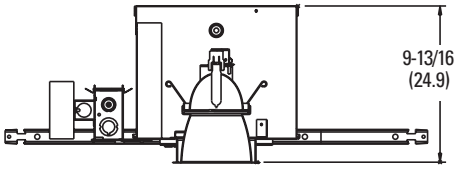
4" ATH

T4/T6 Downlight

Ceramic Metal Halide Lamp



Aperture: 4-3/8 (11.1)
Ceiling Opening: 5-1/16 (12.9)
Overlap Trim: 5-7/16 (3.8)



All dimensions are inches (centimeters).

ORDERING INFORMATION

Example: **ATH T4T 20MHC 4AR N LD 120**

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line.

ATH

Series	Lamp Type	Lamp Wattage	Aperture/Trim Color	Finish	Voltage	Ballast	Options
ATH	**T4T**[1,2]	**20MHC**	**4AR** Clear	**(blank)** Semi-specular	**120**	**(blank)** Electronic ballast	**SF** Single fuse
	T4[2,3]	**39MHC**	**4BR**[4] Black	**LD** Matte-diffuse	**277**	**EMB** Electro-magnetic ballast	**TRW** White painted flange
	T6[3]	**70MHC**	**4PR** Pewter		**347**[5]		**TRBL** Black painted flange
			4UBR Umber				**L/LP** Less lamp
			4WTR Wheat				**LRC**[6] Provides compatibility with Lithonia Reloc® System. Lithonia Reloc System can be installed less this option with connectors provided by others. Access above ceiling required
							CP Chicago Plenum

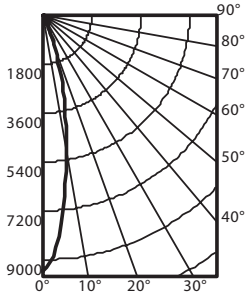
Distribution
N Narrow
M Medium
W Wide

NOTES
1 Philips Mini MasterColor® available in 20W & 120V only. Consult factory for availability on 39W.
2 Available with electronic ballast only.
3 Available in 39W & 70W only.
4 Not available with finishes.
5 Available with 70W electro-magnetic ballast only.
6 For compatible Reloc system, refer to Technical Bulletins tab.

4" ATH Open Reflector

Distribution curve | **Distribution data** | **Output data** | **Coefficient of utilization** | **Illuminance Data at 30" Above Floor for a Single Luminaire**

ATH 39M T4 4AR N, CMH39/TC/830/G8.5 lamp, 3400 rated lumens, 0.4 s/mh, Test No. LTL14975



From 0°	Ave	Lumens
0	9421	
5	7683	638
15	2876	787
25	538	278
35	124	83
45	53	36
55	2	4
65	0	1
75	1	1
85	0	0
90	0	

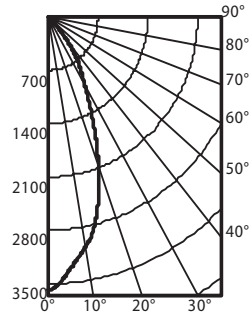
Zone	Lumens	% Lamp
0° - 30°	1702.6	50.1
0° - 40°	1785.6	52.5
0° - 60°	1825.5	53.7
0° - 90°	1827.2	53.7
90° - 180°	0.0	0.0
0° - 180°	1827.2	*53.7

*Efficiency

pf		20%				
pc	80%		70%		50%	
pw	50%	30%	50%	30%	50%	30%
1	.61	.60	.59	.59	.57	.57
2	.58	.56	.57	.55	.55	.54
3	.55	.53	.55	.53	.53	.52
4	.53	.51	.52	.50	.51	.50
5	.51	.49	.51	.48	.50	.48
6	.49	.47	.49	.47	.48	.46
7	.48	.45	.47	.45	.47	.45
8	.46	.44	.46	.44	.45	.43
9	.45	.42	.44	.42	.44	.42
10	.43	.41	.43	.41	.43	.41

		50% beam angle 20.1°		10% beam angle 42.0°	
Mount height	Inital fc at beam center	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge
8	311.4	1.9	155.7	4.2	31.1
10	167.5	2.7	83.7	5.8	16.7
12	104.4	3.4	52.2	7.3	10.4
14	71.2	4.1	35.6	8.8	7.1
16	51.7	4.8	25.8	10.4	5.2

ATH 39M T4 4AR M, CMH39/TC/830/G8.5 lamp, 3400 rated lumens, 0.7 s/mh, Test No. LTL15313



From 0°	Ave	Lumens
0	3582	
5	3343	310
15	2649	727
25	1479	681
35	737	457
45	159	139
55	6	6
65	3	2
75	1	1
85	0	1
90	0	

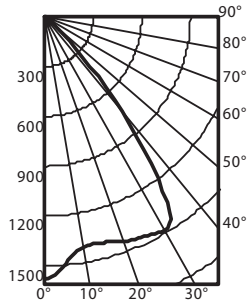
Zone	Lumens	% Lamp
0° - 30°	1717.3	50.5
0° - 40°	2174.0	63.9
0° - 60°	2319.3	68.2
0° - 90°	2323.3	68.3
90° - 180°	0.0	0.0
0° - 180°	2323.3	*68.3

*Efficiency

pf		20%				
pc	80%		70%		50%	
pw	50%	30%	50%	30%	50%	30%
1	.76	.74	.74	.73	.72	.71
2	.71	.68	.70	.67	.68	.66
3	.66	.63	.65	.62	.64	.61
4	.62	.59	.62	.58	.60	.57
5	.59	.55	.58	.54	.57	.54
6	.55	.51	.55	.51	.54	.50
7	.52	.48	.52	.48	.51	.47
8	.49	.45	.49	.45	.48	.45
9	.47	.43	.46	.43	.46	.42
10	.44	.41	.44	.40	.44	.40

		50% beam angle 38.8°		10% beam angle 72.2°	
Mount height	Inital fc at beam center	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge
8	118.4	3.9	59.2	8.0	11.8
10	63.7	5.3	31.8	10.9	6.4
12	39.7	6.7	19.8	13.8	4.0
14	27.1	8.1	13.5	16.8	2.7
16	19.7	9.5	9.8	19.7	2.0

ATH 39M T4 4AR W, CMH39/TC/830/G8.5 lamp, 3400 rated lumens, 1.1 s/mh, Test No. LTL15260



From 0°	Ave	Lumens
0	1577	
5	1490	139
15	1408	401
25	1457	676
35	1276	751
45	274	241
55	14	17
65	6	6
75	3	3
85	1	1
90	0	

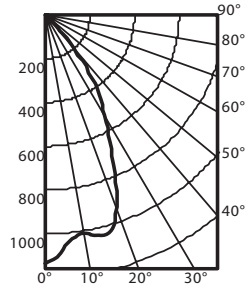
Zone	Lumens	% Lamp
0° - 30°	1216.1	35.8
0° - 40°	1967.4	57.9
0° - 60°	2224.9	65.4
0° - 90°	2235.2	65.7
90° - 180°	0.0	0.0
0° - 180°	2235.2	*65.7

*Efficiency

pf		20%				
pc	80%		70%		50%	
pw	50%	30%	50%	30%	50%	30%
1	.72	.71	.71	.69	.68	.67
2	.67	.64	.65	.63	.63	.61
3	.61	.58	.60	.57	.59	.56
4	.57	.53	.56	.52	.54	.51
5	.52	.48	.52	.48	.51	.47
6	.49	.44	.48	.44	.47	.43
7	.45	.41	.45	.40	.44	.40
8	.42	.37	.41	.37	.41	.37
9	.39	.35	.39	.34	.38	.34
10	.36	.32	.36	.32	.36	.32

		50% beam angle 67.3°		10% beam angle 86.8°	
Mount height	Inital fc at beam center	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge
8	52.1	7.3	26.1	10.4	5.2
10	28.0	10.0	14.0	14.2	2.8
12	17.5	12.7	8.7	18.0	1.7
14	11.9	15.3	6.0	21.8	1.2
16	8.7	18.0	4.3	25.6	0.9

ATH T4T 20M 4AR M, CDM-Tm 20W/830 lamp, 1500 rated lumens, 0.9 s/mh, Test No. LTL15017



From 0°	Ave	Lumens
0	1135	
5	1056	99
15	1037	286
25	711	328
35	386	233
45	64	59
55	2	3
65	1	1
75	1	0
85	0	0
90	0	

Zone	Lumens	% Lamp
0° - 30°	713.5	47.6
0° - 40°	946.9	63.1
0° - 60°	1008.2	67.2
0° - 90°	1009.6	67.3
90° - 180°	0.0	0.0
0° - 180°	1009.6	*67.3

*Efficiency

pf		20%				
pc	80%		70%		50%	
pw	50%	30%	50%	30%	50%	30%
1	.75	.73	.73	.72	.70	.69
2	.69	.67	.68	.66	.66	.64
3	.65	.61	.64	.61	.62	.60
4	.61	.57	.60	.56	.58	.55
5	.57	.53	.56	.52	.55	.52
6	.53	.49	.53	.49	.52	.48
7	.50	.46	.50	.46	.49	.45
8	.47	.43	.47	.43	.46	.42
9	.44	.40	.44	.40	.43	.40
10	.42	.38	.42	.38	.41	.38

		50% beam angle 48.4°		10% beam angle 78.0°	
Mount height	Inital fc at beam center	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge
8	37.5	4.9	18.8	8.9	3.8
10	20.2	6.7	10.1	12.1	2.0
12	12.6	8.5	6.3	15.4	1.3
14	8.6	10.3	4.3	18.6	0.9
16	6.2	12.1	3.1	21.9	0.6

NOTES:
1 For electrical characteristics consult Technical Bulletins tab.
2 Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change without notice.

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