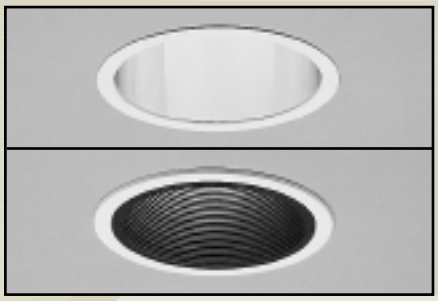
OM6500T4QTZTRWD

6" Quartz Downlights



CAT. NO:

TYPE: **PROJECT:**

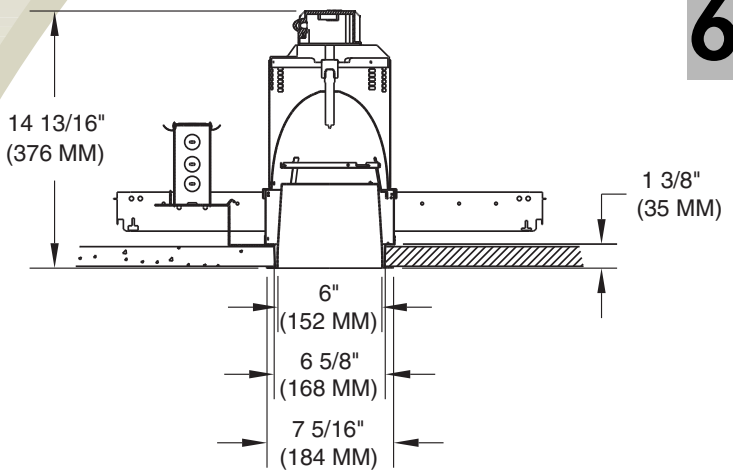
PRODUCT INFORMATION

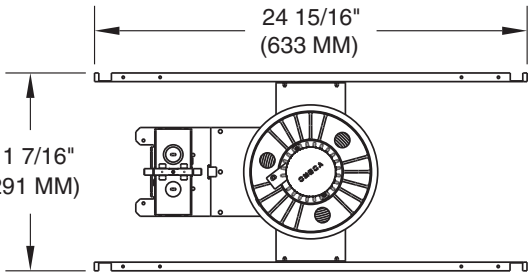
Applications

A quartz downlight suitable for high ceiling heights requiring smooth, even distribution and high efficiency. Provides general lighting in auditoriums, schools, churches, restaurants, hotels, banks, offices or retail applications.

Specifications

1. **Mounting pan** - Precision die-formed 20 gauge galvanized steel mounting pan.
2. **Housing** - 20 gauge bonderized steel housing, baked-on matte black finish. Internal upper clear specular Alzak reflector engineered for precise optical control of beam distribution to ensure maximum performance. Three (3) trim retainer clips riveted to housing at 120° secure reflector to fixture.
3. **Installation** - Mounting pan has pre-installed C-channel with vertical and horizontal adjustments. Junction box and mounting brackets are accessible from below ceiling.
4. **Trim** - Precision spun .051 aluminum, self flanged with clear specular Alzak finish. Trim includes a lamp shatter guard of tempered safety glass. Standard is flat flange painted white. Optional polished flange matching finish available, add FF to catalog number.
5. **Baffle** - Precision machined .051 aluminum with deep grooves to eliminate aperture glare, anodized matte black or matte white finish. Baffle includes a lamp shatter guard of tempered safety glass. Standard flat flange is painted white. Optional black flange available, add FF to catalog number.
6. **Shatter guard** - Protective lamp shatter guard of 1/8" thick tempered Borosilicate glass provided.
7. **Socket enclosure** - Die cast aluminum heat sink, mini-can screw base porcelain socket with nickel-plated copper screw shell and 250°C Teflon® wire.
8. **Junction box** - Extra large 28-cubic inch 14 gauge galvanized steel with snap-on covers. Approved for through wiring with up to 8 #12 AWG conductors.
9. **Relamping** - Top and bottom relampable.
10. **Thermal protection** - A thermal protection device which meets all U.L. and NEC requirements is standard.
11. **U.L. Listed** - For use in damp locations, marked spacing required and approved for Through Branch Circuit Wiring. I.B.E.W. union made.





Canadian Specifications may vary from these shown, consult Canadian Division.

CATALOG SYSTEM AND OPTIONS

EXAMPLE OF COMPLETE CATALOG NUMBER: **OM6500T4QTZTRWD-CS**

OMEGA Aptr.	Lamp (by others)	Top Relamping	Distribution	Reflector Option**	Reflector Finish*	Frame Options	Slope Adapter Angle
OM6	500 T4QTZ***	TR	**WD** Wide Distribution **MD** Medium Distribution **ND** Narrow Distribution	**BB** Black Baffle	**CS** Clear Specular **CSS** Clear Semi-Specular **HZ** Haze **GS** Champagne Gold Specular **WT** Wheat **PW** Pewter **FF** Finish Flange (As suffix to color)	**FB** Flat Bar Hangers **SA6** Sloped Ceiling Adapter	**5** **10** **15** **20** **25** **30**

made with pride in the United States of America

FIVE YEAR Warranty

*Consult factory for other reflector finishes.
** Black Baffle available with Clear Specular Reflector finish only.
***Use Sylvania 500Q EYV 130 volt lamp.

OMEGA LIGHTING

OMEGA LIGHTING:
776 South Green St., Tupelo, MS 38804
Phone 662.842.7212 FAX 662.841.5501

CANADIAN DIVISION:
189 Bullock Drive, Markham, Ontario, Canada L3P 1W4
Phone 905.294.9570 FAX 800.268.0003

omegalighting.com

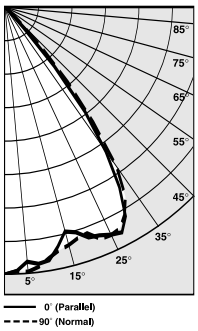
OM6500T4QTZTRWD-CS Photometric Data

Clear Specular Reflector
Report Number: 21696
Lamp: (1) 500W QTZ (Frosted)
Total Lumens: 10100
Fixture Efficiency: = 71.6%
IES File: F21696.IES
S/MH Ratio = 1.2, 1.3
Beam Angle: 75.81

LIGHTING PERFORMANCE DATA

CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	184.6	8-7
10	99.3	11-8
12	61.9	14-10
14	42.2	17-11
16	30.6	21-0

DISTRIBUTION CURVE



DEGREES	CANDELA AT 0°	CANDELA AT 90°	FOOT-LAMBERTS
90	0	0	
85	0	0	0
75	3	4	216
65	17	18	663
55	37	53	1255
45	245	429	7625
35	3679	4072	
25	5243	5250	
15	4851	5146	
5	5336	5547	
0	5585	5585	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
RW	50	30	50	30	50	30
0	84	84	82	82	80	80
1	79	77	77	76	75	72
2	72	69	71	68	69	67
3	68	64	67	63	65	61
4	63	58	61	57	59	56
5	57	54	57	53	56	53
6	54	50	54	48	53	48
7	51	46	50	46	48	45
8	46	42	46	41	46	41
9	44	40	44	39	42	39
10	40	36	40	36	40	36

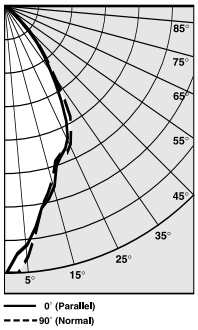
OM6500T4QTZTRMD-CS Photometric Data

Clear Specular Reflector
Report Number: 21699
Lamp: (1) 500W QTZ (Frosted)
Total Lumens: 10100
Fixture Efficiency: = 72.7%
IES File: F21699.IES
S/MH Ratio = 0.7, 0.7
Beam Angle: 55.87

LIGHTING PERFORMANCE DATA

CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	318.1	5-10
10	171.1	7-11
12	106.6	10-1
14	72.8	12-2
16	52.8	14-4

DISTRIBUTION CURVE



DEGREES	CANDELA AT 0°	CANDELA AT 90°	FOOT-LAMBERTS
90	0	0	
85	0	0	0
75	3	2	155
65	14	13	511
55	40	42	1144
45	538	438	11042
35	2676	2884	
25	5222	5469	
15	6699	6432	
5	8623	9044	
0	9623	9623	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
RW	50	30	50	30	50	30
0	86	86	84	84	81	81
1	80	79	79	77	76	75
2	75	71	73	70	70	68
3	69	66	68	65	67	64
4	65	60	64	60	63	58
5	60	56	59	56	58	55
6	56	53	56	52	55	52
7	54	48	53	48	52	47
8	50	46	50	46	48	45
9	46	42	46	42	46	42
10	45	40	45	40	44	40

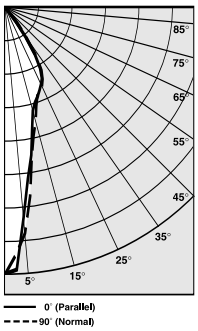
OM6500T4QTZTRND-CS Photometric Data

Clear Specular Reflector
Report Number: 21700
Lamp: (1) 500W QTZ (Frosted)
Total Lumens: 10100
Fixture Efficiency: = 72.1%
IES File: F21700.IES
S/MH Ratio = 0.4, 0.4
Beam Angle: 23.71

LIGHTING PERFORMANCE DATA

CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	553.9	2-4
10	297.9	3-2
12	185.7	3-12
14	126.7	4-10
16	91.9	5-8

DISTRIBUTION CURVE



DEGREES	CANDELA AT 0°	CANDELA AT 90°	FOOT-LAMBERTS
90	0	0	
85	0	0	0
75	2	2	124
65	13	12	473
55	25	30	767
45	74	144	2466
35	2206	2366	
25	5315	5456	
15	6690	7380	
5	13238	14244	
0	16755	16755	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
RW	50	30	50	30	50	30
0	85	85	83	83	80	80
1	80	79	79	77	76	75
2	75	71	73	70	71	69
3	70	67	69	66	68	65
4	66	63	66	61	64	60
5	63	58	61	57	60	56
6	58	55	58	55	56	54
7	56	52	55	52	55	51
8	53	48	53	48	52	47
9	50	46	50	46	48	46
10	47	44	47	44	46	44

Note: Test were conducted with a Sylvania 500Q EVY 130volt lamp.

*Readings at working plane, 2'6" above floor. Beam Angle and Diameter Cutoff at 50% of max.
Candlepower Coefficients used at effective reflectances of: 70% Ceiling, 50% Walls, 20% Floor

To convert values for optional reflector colors, multiply by:
Gold .90 Bronze .82 Pewter .87

Additional photometric test files are available @ omegalighting.com

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