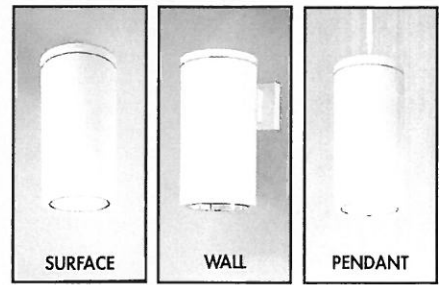


# OM8200A23PC

## 8" Incandescent Cylinder

CAT NO:

TYPE:  PROJECT:



### PRODUCT INFORMATION

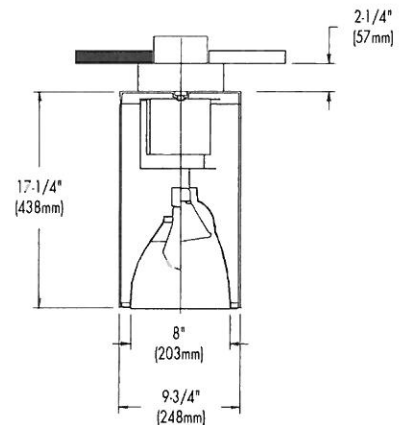
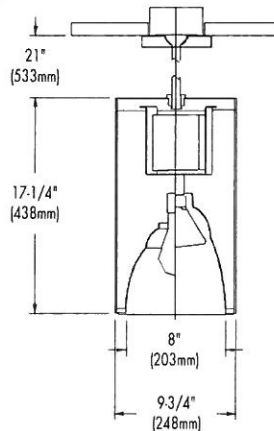
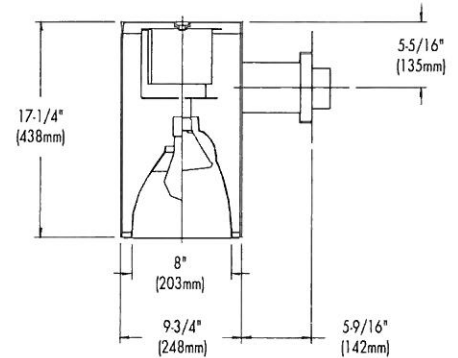
#### Applications

A low brightness small profile cylinder for use with PAR lamps. Provides broad uniform light distribution with high efficiency for general illumination of areas such as lobbies, reception areas, schools, restaurants, hotels and offices.

#### Specifications

- Housing** - Aluminum cylinder with cast aluminum top and bottom ring on pendant and wall units.
- Installation** - Top plate assembly mounts directly to outlet box (by others). Anchor holes are provided. Socket is mounted to top plate and is accessible for servicing by removal of screws secured to housing. Junction box with 3/8" IPS stud required.
- Reflectors** - Precision spun .050 aluminum one piece reflector, self flanged with clear specular low iridescent finish. The reflector is screw mounted for positive attachment to the socket assembly. Polished flange matches reflector finish.
- Baffle** - Precision machined .051 aluminum with deep grooves to eliminate aperture glare, anodized matte black or matte white finish. Standard flange is painted black.
- Aligning Canopy** - Die cast aluminum free moving and self aligning outlet box cover. Attaches to 3 1/4" or 4" octagon outlet box (by others). Allows for up to 45° adjustability for use with sloped ceilings or seismic requirements. Add AC2 for two aligning canopies - one mounted to outlet box, and one mounted to fixture.
- U.L. Listed** - For use in damp locations and approved for Through Branch Circuit Wiring. I.B.E.W. union made.

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



8

### CATALOG SYSTEM AND OPTIONS

EXAMPLE OF COMPLETE CATALOG NUMBER: OM6200A23PC-CSFF

OMEGA Lamp Aprt (by others)	Product Family	Reflector Option	Reflector Finish*	Frame Option
OM8	SC Surface Cylinder	BB Black Baffle	CSFF Clear Specular	AC2
200 A23	WC Wall Cylinder		CSSFF Clear Semi-Specular	2 Aligning Canopies
150 A21	PC Pendant Cylinder**		HZFF Haze	
300 PS25			GSFF Champagne Gold Specular	
250 PAR38			PWFF Pewter Finish	



FIVE YEAR  
Warranty

\*Consult factory for other finishes.

\*\*Stem length is 22". Consult factory for other lengths.

**OM8200A23-CS**

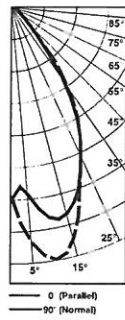
Photometric Data

**Clear Specular Reflector**

Report Number: 20837  
 Lamp: (1) 200W A23 Inside Frost  
 Total Lumens: 3800  
 Fixture Efficiency: = 73.3%  
 IES File: F20837.IES  
 S/MH Ratio = 1.1, 1.1  
 Beam Angle: 68.23

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	78.0	7-5
10	41.9	10-2
12	26.1	12-10
14	17.8	15-7
16	12.9	18-4

DISTRIBUTION CURVE



DEGREES	CANDELA		FOOT-LAMBERTS
	AT 0°	AT 90°	
90	0	0	
85	0	0	0
75	2	2	70
65	9	7	170
55	18	16	267
45	192	212	2571
35	1044	1093	
25	1976	1969	
15	2620	2928	
5	2325	2917	
0	2358	2358	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80			70			50		
	50	30	50	30	50	30	50	30	
0	86	86	84	84	81	81	81	81	
1	81	79	79	78	77	75	77	75	
2	75	71	73	70	71	69	71	69	
3	69	66	68	66	67	64	67	64	
4	65	60	65	60	63	59	63	59	
5	60	56	59	56	58	56	58	56	
6	56	53	56	53	56	52	56	52	
7	54	48	53	48	52	48	52	48	
8	51	46	50	46	48	46	48	46	
9	47	42	46	42	46	42	46	42	
10	45	40	45	40	44	40	44	40	

**OM8200A23BB-CS**

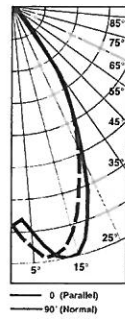
Photometric Data

**Clear Specular Reflector with Black Baffle**

Report Number: 20845  
 Lamp: (1) 200W A23 Inside Frost  
 Total Lumens: 3800  
 Fixture Efficiency: = 63.2%  
 IES File: F20845.IES  
 S/MH Ratio = 1.0, 1.0  
 Beam Angle: 62.71

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	72.3	6-8
10	38.9	9-2
12	24.2	11-7
14	16.5	14-0
16	12.0	16-5

DISTRIBUTION CURVE



DEGREES	CANDELA		FOOT-LAMBERTS
	AT 0°	AT 90°	
90	0	0	
85	0	0	0
75	7	4	655
65	27	22	1788
55	38	36	1989
45	148	125	5953
35	762	814	
25	1661	1547	
15	2555	2327	
5	2255	2425	
0	2186	2186	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80			70			50		
	50	30	50	30	50	30	50	30	
0	75	75	73	73	69	69	69	69	
1	69	68	68	67	66	65	66	65	
2	65	61	64	60	61	59	61	59	
3	59	56	59	56	54	52	54	52	
4	56	53	56	53	54	52	54	52	
5	53	48	52	48	51	47	51	47	
6	50	46	48	46	47	45	47	45	
7	46	42	46	42	46	41	46	41	
8	44	40	44	40	42	40	42	40	
9	41	38	40	38	40	38	40	38	
10	39	35	39	35	39	34	39	34	

**OM8250PAR38-CS**

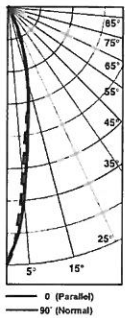
Photometric Data

**Clear Specular Reflector - Spot**

Report Number: 21655  
 Lamp: (1) 250W PAR38/SP  
 Total Lumens: 3370  
 Fixture Efficiency: = 88%  
 IES File: F21655.IES  
 S/MH Ratio = 0.3, 0.3  
 Beam Angle: 16.75

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	609.1	1-7
10	327.6	2-2
12	204.2	2-10
14	139.3	3-5
16	101.1	3-12

DISTRIBUTION CURVE



DEGREES	CANDELA		FOOT-LAMBERTS
	AT 0°	AT 90°	
90	0	0	
85	0	0	0
75	0	0	0
65	0	0	0
55	3	3	47
45	21	16	235
35	182	190	
25	1482	1222	
15	5536	5484	
5	13910	12411	
0	18425	18425	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80			70			50		
	50	30	50	30	50	30	50	30	
0	105	105	102	102	97	97	97	97	
1	98	97	96	95	93	93	93	93	
2	94	92	93	91	90	89	90	89	
3	91	86	89	86	86	84	86	84	
4	86	83	85	82	83	81	83	81	
5	83	80	82	80	81	79	81	79	
6	81	77	80	77	79	76	79	76	
7	78	75	78	73	77	73	77	73	
8	76	71	75	71	75	70	75	70	
9	72	69	72	69	71	68	71	68	
10	70	68	70	68	69	67	69	67	

**OM8250PAR38-CS**

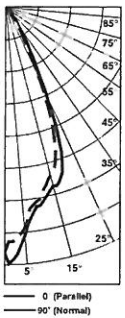
Photometric Data

**Clear Specular Reflector - Flood**

Report Number: 21654  
 Lamp: (1) 250W PAR38/FL  
 Total Lumens: 3370  
 Fixture Efficiency: = 95.3%  
 IES File: F21654.IES  
 S/MH Ratio = 0.8, 0.7  
 Beam Angle: 45.51

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	222.6	4-7
10	119.7	6-3
12	74.6	7-12
14	50.9	9-8
16	36.9	11-4

DISTRIBUTION CURVE



DEGREES	CANDELA		FOOT-LAMBERTS
	AT 0°	AT 90°	
90	0	0	
85	0	0	0
75	0	0	0
65	0	0	0
55	8	5	102
45	58	41	630
35	458	378	
25	2598	2189	
15	5085	4794	
5	6300	6098	
0	6734	6734	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80			70			50		
	50	30	50	30	50	30	50	30	
0	112	112	111	111	106	106	106	106	
1	107	105	105	103	105	103	105	103	
2	100	96	98	95	95	93	95	93	
3	94	91	89	84	86	82	86	82	
4	90	84	89	84	86	82	86	82	
5	84	81	84	80	82	79	82	79	
6	81	76	81	76	79	75	79	75	
7	77	72	77	71	76	71	76	71	
8	73	68	72	68	71	68	71	68	
9	70	66	69	66	68	65	68	65	
10	68	63	67	63	67	61	67	61	

\*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  
 Additional photometric test files are available @ [omegalighting.com](http://omegalighting.com)

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

Kramer Lighting reserves the right to change specifications or materials that will not affect product function.

Rev. 04/18/07

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**DESCRIPTION**

Cylinder downlight luminaire with 8" diameter, designed for a T4 minican frosted quartz lamp. Two-piece optical assembly with a unique convex shatter guard assures high efficiency with low brightness. Cast aluminum socket heat sink ensures rated lamp life. Three light distributions available – narrow, medium, and wide.

**FEATURES**

- Luminaire uses a 500 Watt T4 minican frosted quartz lamp.
- Unique convex glass shatter guard maximizes light output on the work plane by permitting 98% of light to exit the lamp compartment.
- Light distribution available in narrow, medium, or wide.
- Ellipsoidal spun Alzak® aluminum reflector, .06" thick.
- Low brightness spun clear Alzak aluminum cone, .06" thick with polished radius and continuous self-flange.
- Precision nickel-plated cone retainers guaranteed to hold cone in proper position.
- Formed aluminum housing, .06" thick.
- White polyester powdercoat exterior finish.
- Cast aluminum socket heat sink.
- Pendant or wall bracket mounted.
- UL/CUL listed for damp location.

**OPTIONS**

- B** Black Exterior Finish
- BR** Bronze Exterior Finish
- SV** Metallic Powdercoat Aluminum Exterior Finish
- XX** Exterior Finish Color as Specified
- WL** Wet Location  
(Covered Ceilings & Pendant)

**COMPANION LUMINAIRE**

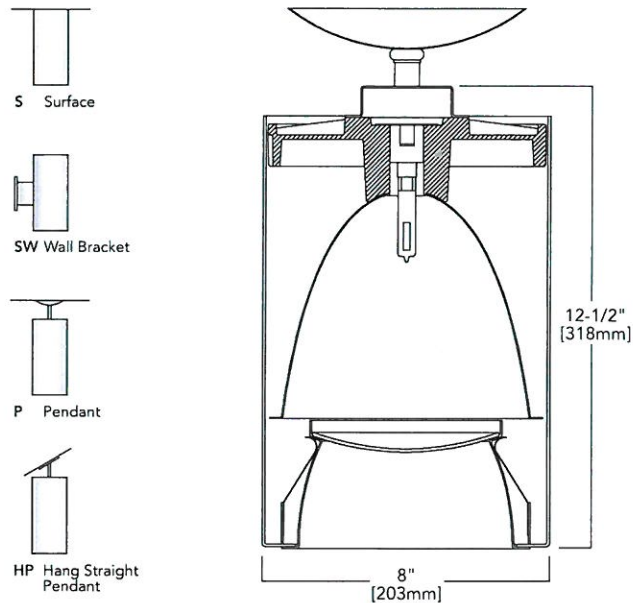
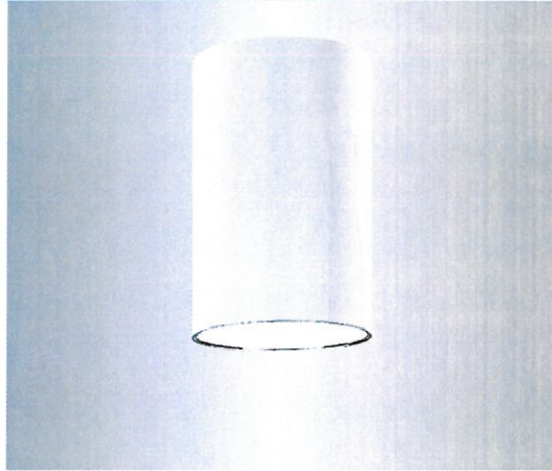
Recessed Downlight  
KL6500QTWDCFF I.19

**SURFACE**

**QUARTZ CYLINDER DOWNLIGHT**

**8" Diameter  
KL8500QTWDCFFP**

**Notes:**



**SURFACE**

**HOW TO SPECIFY**

Select:	Lamp (By Others)	Distribution	Reflector/Cone Finish	Mounting	Voltage	Options
KL8	<u>500QT</u> 500QT 500 Watt T4 Quartz	<u>WD</u>	<u>CFF</u>	<u>S</u>	<u>120</u>	Select from Options above left.
Example:	KL8 <u>500QT</u>	<u>WD</u>	<u>CFF</u>	<u>S</u>	<u>120</u>	

QUARTZ CYLINDER DOWNLIGHT

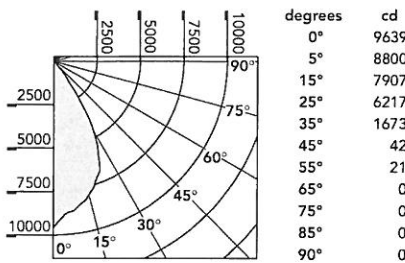
8" Diameter  
KL8500QTDWDCFFP

Wide Distribution  
KL8500QTDWDCFFS  
Lamp: 500 Watt T4 Frosted Quartz  
Efficiency: 69.9% S/M: 1.0  
Test No.: LT00606.IES

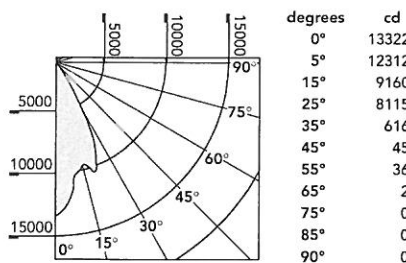
Medium Distribution  
KL8500QTMDCFFS  
Lamp: 500 Watt T4 Frosted Quartz  
Efficiency: 79.1% S/M: .8  
Test No.: 88811.IES

Narrow Distribution  
KL8500QTDNDCFFS  
Lamp: 500 Watt T4 Frosted Quartz  
Efficiency: 67.6% S/M: .4  
Test No.: LTL00552.IES

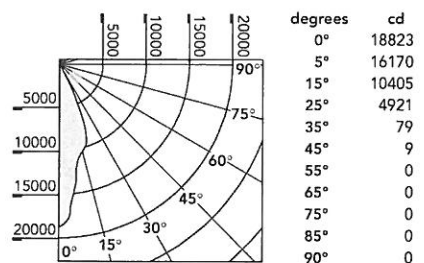
CANDELA DISTRIBUTION



CANDELA DISTRIBUTION



CANDELA DISTRIBUTION



LUMINANCE DATA

VERTICAL ANGLE	AVERAGE
45°	3302
55°	2036
65°	0
75°	0
85°	0

LUMINANCE DATA

VERTICAL ANGLE	AVERAGE
45°	2740
55°	2702
65°	204
75°	0
85°	0

LUMINANCE DATA

VERTICAL ANGLE	AVERAGE
45°	708
55°	0
65°	0
75°	0
85°	0

CONE OF LIGHT

DISTANCE FROM WORKPLANE	FOOTCANDLES	BEAM DIAMETER
6'	268	5.5'
8'	151	7.4'
10'	96	9.2'
12'	67	11.1'
14'	49	12.9'

CONE OF LIGHT

DISTANCE FROM WORKPLANE	FOOTCANDLES	BEAM DIAMETER
6'	370	5.2'
8'	208	7.0'
10'	133	8.7'
12'	93	10.5'
14'	68	12.2'

CONE OF LIGHT

DISTANCE FROM WORKPLANE	FOOTCANDLES	BEAM DIAMETER
6'	523	3.6'
8'	294	4.8'
10'	188	6.0'
12'	131	7.2'
14'	96	8.5'

CO-EFFICIENT OF UTILIZATION

FLOOR	20												
RC	80	70	50	30	0	80	70	50	30	0			
RW	70	50	30	10	0	70	50	30	10	0			
RCR	0	.83	.83	.83	.81	.81	.81	.81	.77	.77	.74	.74	.69
1	.79	.77	.76	.74	.78	.76	.74	.73	.73	.71	.71	.69	.66
2	.76	.72	.70	.68	.74	.71	.69	.67	.69	.65	.67	.64	.61
3	.72	.68	.64	.62	.71	.67	.64	.61	.65	.60	.63	.59	.57
4	.68	.64	.60	.57	.67	.63	.59	.57	.61	.56	.60	.55	.54
5	.65	.60	.56	.53	.64	.59	.55	.53	.58	.52	.57	.52	.50
6	.62	.56	.52	.49	.61	.55	.52	.49	.54	.49	.53	.48	.47
7	.59	.53	.49	.46	.58	.52	.48	.46	.51	.46	.51	.45	.44
8	.56	.50	.46	.43	.55	.49	.46	.43	.49	.43	.48	.43	.41
9	.53	.47	.43	.40	.53	.47	.43	.40	.46	.40	.45	.40	.39
10	.51	.44	.41	.38	.50	.44	.40	.38	.44	.38	.43	.38	.37

CO-EFFICIENT OF UTILIZATION

FLOOR	20												
RC	80	70	50	30	0	80	70	50	30	0			
RW	70	50	30	10	0	70	50	30	10	0			
RCR	0	.94	.94	.94	.91	.91	.91	.91	.87	.87	.84	.84	.79
1	.90	.88	.86	.85	.88	.86	.85	.83	.83	.81	.80	.78	.75
2	.86	.82	.80	.77	.84	.81	.79	.76	.79	.75	.76	.73	.70
3	.82	.78	.74	.71	.81	.76	.73	.71	.74	.70	.73	.68	.66
4	.78	.73	.69	.66	.77	.72	.69	.66	.71	.65	.69	.64	.62
5	.75	.69	.65	.62	.74	.68	.64	.61	.67	.61	.66	.60	.59
6	.71	.65	.61	.58	.70	.65	.61	.58	.63	.57	.62	.57	.55
7	.68	.62	.57	.54	.67	.61	.57	.54	.60	.54	.59	.54	.52
8	.65	.58	.54	.51	.64	.58	.54	.51	.57	.51	.56	.51	.49
9	.62	.55	.51	.48	.62	.55	.51	.48	.54	.48	.54	.48	.47
10	.60	.53	.48	.46	.59	.52	.48	.46	.52	.45	.51	.45	.44

CO-EFFICIENT OF UTILIZATION

FLOOR	20												
RC	80	70	50	30	0	80	70	50	30	0			
RW	70	50	30	10	0	70	50	30	10	0			
RCR	0	.80	.80	.80	.78	.78	.78	.78	.75	.75	.71	.71	.67
1	.77	.76	.74	.73	.75	.74	.73	.72	.71	.70	.69	.67	.64
2	.74	.72	.69	.67	.73	.70	.68	.67	.68	.65	.66	.64	.62
3	.71	.68	.65	.63	.70	.67	.65	.63	.65	.62	.64	.61	.59
4	.69	.65	.62	.59	.68	.64	.61	.59	.63	.58	.61	.58	.56
5	.66	.62	.59	.56	.65	.61	.58	.56	.60	.56	.59	.55	.54
6	.64	.59	.56	.53	.63	.58	.55	.53	.58	.53	.57	.53	.51
7	.61	.56	.53	.51	.61	.56	.53	.51	.55	.51	.55	.50	.49
8	.59	.54	.51	.49	.59	.54	.51	.49	.53	.48	.52	.48	.47
9	.57	.52	.49	.47	.57	.52	.49	.47	.51	.46	.51	.46	.45
10	.55	.50	.47	.45	.55	.50	.47	.45	.49	.45	.49	.44	.44

All photometric files available for your convenience at our web site: [www.kramerlighting.com](http://www.kramerlighting.com)

S U R F A C E