

FEATURES

OPTICAL SYSTEM

- Aluminum upper reflector coated with highly reflective white paint provides high efficiency.
- Available with tempered prismatic lens (T73), flat Fresnel lens (FFL) or flat opal lens (FOL).
- Regressed door (RW) or stepped black baffle (SB) are available.
- Door is retained by two self-aligning, torsion support springs.

HOUSING

- Heavy-gauge aluminum housing with top deck for clean appearance. Matte white textured polyester powder paint finish standard.
- Reflector edge sits flush with cylinder wall for clean, one-piece appearance.
- Reveal on standard ceiling and optional pendant mount give floating luminaire appearance.

MOUNTING

- Ceiling mount (standard) offers patented (U.S. Patent No. 4,300,190), quick mount attachment plate for direct installation.
- Wall mount or pendant mount available.

ELECTRICAL SYSTEM

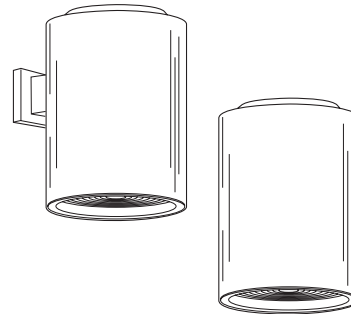
- Medium-base porcelain socket with nickel-plated screw shell.

LISTINGS

- Fixtures are UL Listed for wet locations. Listed and labeled to comply with Canadian Standards.

Type

Catalog number

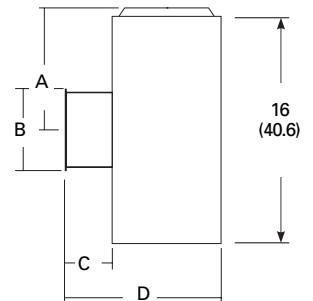
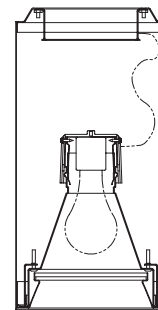


Incandescent Cylinders

9" CAL

Lensed Cylinders Wet Location

A21 or A23 Lamp



Reflector Aperture: 8 (20.3)

Housing Diameter: 9-3/8 (23.8)

All dimensions
are inches
(centimeters).

A = 8 (20.3)
B = 5-5/16 (13.5)
C = 3-1/4 (8.3)
D = 12-1/2 (31.8)

Wall Mount Dimensions

ORDERING INFORMATION

Example: **CAL9 8RW DWHG**

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).

CAL9		Door frame		Shielding		Options	
Series¹	CAL9	8RW²	Regressed door	T73	Tempered prismatic lens	Mounting	Housing Color
		8SB	Stepped black baffle	FFL	Flat Fresnel lens	WM	DWHG
				FOL	Flat opal lens	PM³	Matte White (standard)
							DDB
							Dark Bronze
							DBL
							Black
							DNA
							Natural Aluminum
							DWH
							Gloss White
							DTG
							Tennis Green
							DGC
							Charcoal Grey
							DSS
							Sandstone

NOTES:

- 1 Maximum wattage 150W A21 lamp or 200W A23 lamp.
- 2 Matches cylinder housing color.
- 3 Stem not included.
- 4 For use on pendant mount (PM) only. Specify length of stem (from 6" to 48" in 6" increments). Ex. CYS06 DWHG. Consult factory for exterior use. Stem and cylinder color will match when ordered on the same line.

Accessories

- Shipped Separately.
- CYS⁴** 3/8" stem and canopy with 5° "hang straight" swivel.
 - CRS⁴** 3/8" stem and canopy with 45° swivel.

9" CAL Lensed Cylinder

Distribution curve

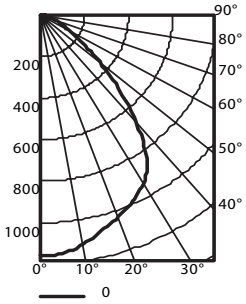
Distribution data

Output data

Coefficient of utilization

Illuminance Data at 30" Above Floor for a Single Luminaire

CAL9 8RW, 200W A23 lamp, 3800 rated lumens, 1.2 s/mh, test no. LTL14201

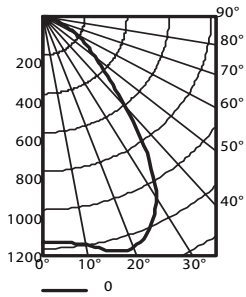


From 0°	Ave	Lumens	Zone	Lumens	% Lamp
0	1158		0° - 30°	867.8	22.8
5	1152	109	0° - 40°	1382.6	36.4
15	1073	303	0° - 60°	1989.7	52.4
25	990	456	0° - 90°	2163.2	56.9
35	837	515	90° - 180°	0.0	0.0
45	504	389	0° - 180°	2163.2	*56.9
55	238	218	*Efficiency		
65	112	113			
75	44	49			
85	11	12			
90	0				

pf	80%		20%		50%	
	50%	30%	50%	30%	50%	30%
pc						
pw						
1	.61	.59	.60	.58	.58	.56
2	.55	.52	.54	.51	.52	.50
3	.50	.46	.49	.45	.47	.44
4	.45	.41	.44	.40	.43	.39
5	.41	.36	.40	.36	.39	.35
6	.37	.33	.37	.33	.36	.32
7	.34	.30	.34	.30	.33	.29
8	.31	.27	.31	.27	.30	.27
9	.29	.25	.29	.25	.28	.24
10	.27	.23	.27	.23	.26	.23

Mount height	Initial fc		50% beam angle		10% beam angle	
	at beam center	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge	Beam diameter
8	38.3		6.6	19.1	12.4	3.8
10	20.6		9.0	10.3	16.9	2.1
12	12.8		11.4	6.4	21.4	1.3
14	8.8		13.8	4.4	25.9	0.9
16	6.4		16.2	3.2	30.4	0.6

CAL9 8RW FFL, 200W A23 lamp, 3800 rated lumens, 1.3 s/mh, test no. LTL14202



From 0°	Ave	Lumens	Zone	Lumens	% Lamp
0	1166		0° - 30°	1016.2	26.7
5	1170	113	0° - 40°	1548.0	40.7
15	1253	354	0° - 60°	2114.8	55.7
25	1208	549	0° - 90°	2305.9	60.7
35	864	532	90° - 180°	0.0	0.0
45	432	343	0° - 180°	2305.9	*60.7
55	249	224	*Efficiency		
65	127	127			
75	46	51			
85	11	13			
90	0				

pf	80%		20%		50%	
	50%	30%	50%	30%	50%	30%
pc						
pw						
1	.65	.63	.64	.62	.61	.60
2	.59	.56	.58	.55	.56	.53
3	.53	.49	.52	.49	.51	.47
4	.48	.44	.47	.43	.46	.42
5	.44	.39	.43	.39	.42	.38
6	.40	.36	.40	.35	.39	.35
7	.37	.32	.37	.32	.36	.32
8	.34	.30	.34	.29	.33	.29
9	.32	.27	.31	.27	.31	.27
10	.29	.25	.29	.25	.29	.25

Mount height	Initial fc		50% beam angle		10% beam angle	
	at beam center	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge	Beam diameter
8	38.5		7.0	19.3	12.0	3.9
10	20.7		9.6	10.4	16.3	2.1
12	12.9		12.2	6.5	20.7	1.3
14	8.8		14.7	4.4	25.0	0.9
16	6.4		17.3	3.2	29.3	0.6

NOTES:

- For electrical characteristics consult Technical Bulletins tab.
- 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.

SINC-145

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GOTHAM ARCHITECTURAL DOWNLIGHTING
A DIVISION OF ACUITY LIGHTING GROUP, INC.
1400 Lester Road Conyers Georgia 30012
P 800 315 4982 F 770 860 3129
www.gothamlighting.com