

# FEATURES

## OPTICAL SYSTEM

- Three preset distribution patterns allow designers to achieve various design objectives.
- Reflector – Clear anodized upper reflector and 6-inch self-flanged finishing trim provide 50° cut-off, optimal efficiency and glare control while maintaining a smooth beam pattern that is free of hot spots and striations.
- Protective lamp guard utilizes clear ceramic technology that reduces UV emissions and provides higher heat tolerance and better protection than standard borosilicate lenses.

## MECHANICAL SYSTEM

- One-piece die-cast aluminum housing provides 3 square feet of surface area to dissipate heat and improve lamp life. Entire housing is coated with black paint to minimize visibility when installed in open ceiling construction.
- Lamp is accessible from above or below the ceiling without the use of tools. All hardware is captive.
- 16-gauge painted steel mounting/plaster frame accommodates up to 1-1/2" thick ceiling materials.
- 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.
- Secondary housing adjustment system for precise, final ceiling to luminaire alignment eliminates trims that protrude into the space.
- Galvanized steel J-box with bottom hinged access covers and spring latches. Two combination 1/2"-3/4" and three 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out) No. 12 AWG conductors rated for 90° C.

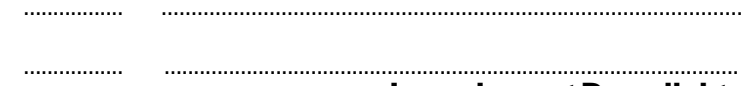
## ELECTRICAL SYSTEM

- Heavy-duty mini-can socket for T-4 lamp is integrated into the cast housing for effective heat dissipation.
- Thermally-activated insulation detector attached to J-box is accessible from above or below the ceiling.

## LISTING

- Fixtures are UL listed for thru-branch wiring, recessed mounting and damp locations and are Non I/C rated. Listed and labeled to comply with Canadian Standards.
- Suitable for installation on non-fire resistant material.

Type Catalog number

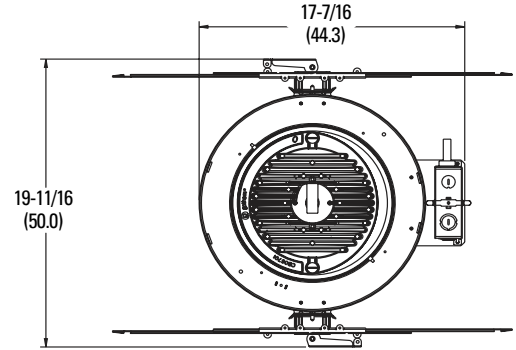
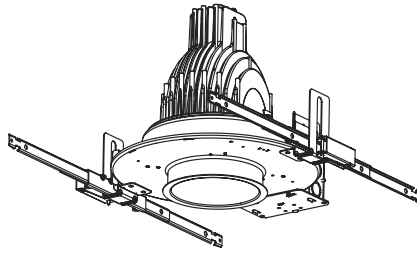


## Incandescent Downlights

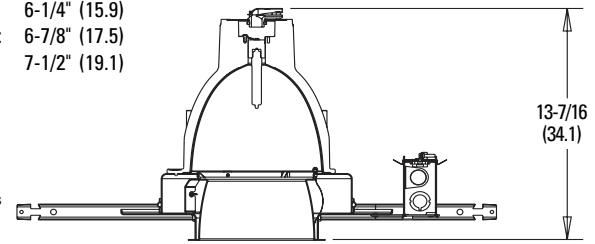
# 6" GQ

## Ellipsoidal

### Open Reflector Quartz Halogen T4 Lamp



Aperture: 6-1/4" (15.9)  
 Ceiling Opening: 6-7/8" (17.5)  
 Overlap Trim: 7-1/2" (19.1)



All dimensions are inches (centimeters).

# ORDERING INFORMATION

Example: **GQ 500 M 6AR**

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

GQ																					
Series	Lamp wattage <sup>1</sup>	Distribution		Aperture/Trim color		Finish		Options													
<b>GQ</b>	<b>400</b> <b>500</b>	<b>N</b> Narrow	<b>M</b> Medium	<b>W</b> Wide	<b>6AR</b> Clear	<b>6BR<sup>2</sup></b> Black	<b>6CR</b> Champagne	<b>6GR</b> Gold	<b>6WTR</b> Wheat	<b>6UBR</b> Umber	<b>6PR</b> Pewter	<b>6MB<sup>2</sup></b> Black baffle	<b>6WB<sup>2</sup></b> White baffle	(blank) Clear	Anodized	<b>LD</b> Diffuse	<b>LS</b> Specular	<b>TRW</b> White painted flange.	<b>TRBL</b> Black painted flange.	<b>LRC<sup>3</sup></b> Provides compatibility with Lithonia Reloc® System. Lithonia Reloc System can be installed less this option with connectors provided by others. Access above ceiling required.	<b>WLP</b> Lamp (shipped separately).

## NOTES

- 1 Recommended for use with frosted lamp.
- 2 Not available with LD or LS finish.
- 3 For compatible Reloc systems, refer to Technical Bulletins tab.

# 6" GQ Open Reflector Quartz Halogen T4 Lamp

## Distribution curve

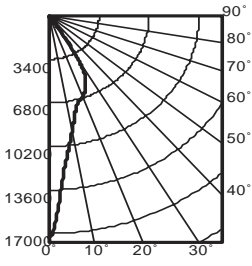
## Distribution data

## Output data

## Coefficient of utilization

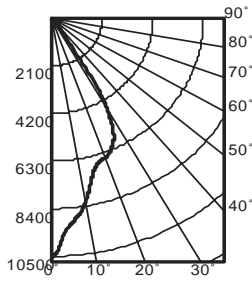
## Illuminance Data at 30" Above Floor for a Single Luminaire

### GQ 500 N 6AR "NARROW," (1) 500Q EYX lamp, 10100 rated lumens, 0.4 s/mh, test no. LTL13662



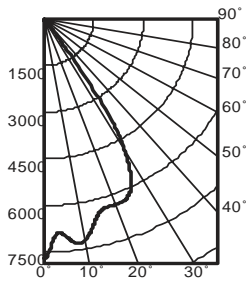
From 0°	Ave	Lumens	Zone	Lumens	% Lamp	pf	Coefficient of utilization						50% beam angle			10% beam angle				
							80%		20%		50%		20.0°			63.2°				
							50%	30%	50%	30%	50%	30%	50%	30%	50%	30%	50%	30%		
0	17328		0° - 30°	5784.2	57.3	pc														
5	11966	1061	0° - 40°	6471.5	64.1	pw	.72	.71	.71	.69	.68	.67	Initial fc							
15	7261	2094	0° - 60°	6498.4	64.3		.68	.65	.67	.65	.65	.63	Mount at beam	Beam	fc at	Beam	fc at	Beam	fc at	
25	5916	2629	0° - 90°	6504.9	64.4		.64	.61	.63	.60	.61	.59	height	center	diameter	beam	edge	diameter	beam	edge
35	774	687	90° - 180°	0.0	0.0		.60	.57	.60	.57	.58	.56	8	572.8	1.9	286.5	6.8	57.3		
45	24	20	0° - 180°	6504.9	*64.4		.57	.54	.57	.54	.56	.53	10	308.1	2.6	154.1	9.2	30.8		
55	8	7					.54	.51	.54	.51	.53	.50	12	192.0	3.3	96.0	11.7	19.2		
65	3	4					.52	.48	.51	.48	.50	.48	14	131.0	4.0	65.5	14.1	13.1		
75	1	2					.49	.46	.49	.46	.48	.45	16	95.1	4.7	47.5	16.6	9.5		
85	2	1					.47	.44	.47	.43	.46	.43								
90	0	0					.45	.42	.45	.41	.44	.41								

### GQ 500 M 6AR "MEDIUM," (1) 500Q EYX lamp, 10100 rated lumens, 0.8 s/mh, test no. LTL13661



From 0°	Ave	Lumens	Zone	Lumens	% Lamp	pf	Coefficient of utilization						50% beam angle			10% beam angle				
							80%		20%		50%		42.1°			66.6°				
							50%	30%	50%	30%	50%	30%	50%	30%	50%	30%				
0	10530		0° - 30°	5526.4	54.7	pc														
5	9137	848	0° - 40°	6440.2	63.8	pw	.71	.70	.70	.69	.68	.66	Initial fc							
15	6878	1980	0° - 60°	6471.3	64.1		.67	.65	.66	.64	.64	.62	Mount at beam	Beam	fc at	Beam	fc at	Beam	fc at	
25	6052	2698	0° - 90°	6476.7	64.1		.63	.60	.62	.60	.61	.58	height	center	diameter	beam	edge	diameter	beam	edge
35	922	914	90° - 180°	0.0	0.0		.59	.56	.59	.56	.57	.55	8	348.1	4.2	174.0	7.2	34.8		
45	28	22	0° - 180°	6476.7	*64.1		.56	.53	.56	.52	.54	.52	10	187.2	5.8	93.6	9.9	18.7		
55	10	9					.53	.50	.53	.49	.52	.49	12	116.7	7.3	58.3	12.5	11.7		
65	3	3					.50	.47	.50	.47	.49	.46	14	79.6	8.9	39.8	15.1	8.0		
75	1	1					.48	.44	.47	.44	.47	.44	16	57.8	10.4	28.9	17.7	5.8		
85	1	1					.45	.42	.45	.42	.44	.41								
90	0	0					.43	.40	.43	.40	.42	.39								

### GQ 500 W 6AR "WIDE," (1) 500Q EYX lamp, 10100 rated lumens, 1.1 s/mh, test no. LTL13660



From 0°	Ave	Lumens	Zone	Lumens	% Lamp	pf	Coefficient of utilization						50% beam angle			10% beam angle				
							80%		20%		50%		55.7°			69.4°				
							50%	30%	50%	30%	50%	30%	50%	30%	50%	30%				
0	7701		0° - 30°	5270.8	52.2	pc														
5	6970	684	0° - 40°	6391.9	63.3	pw	.71	.69	.69	.68	.67	.66	Initial fc							
15	6440	1853	0° - 60°	6429.0	63.7		.66	.64	.65	.63	.63	.61	Mount at beam	Beam	fc at	Beam	fc at	Beam	fc at	
25	6138	2734	0° - 90°	6435.9	63.7		.62	.59	.61	.59	.60	.57	height	center	diameter	beam	edge	diameter	beam	edge
35	1188	1121	90° - 180°	0.0	0.0		.58	.55	.58	.55	.56	.54	8	254.6	5.8	127.3	7.6	25.5		
45	31	27	0° - 180°	6435.9	*63.7		.55	.51	.54	.51	.53	.50	10	136.9	7.9	68.5	10.4	13.7		
55	11	10					.52	.48	.51	.48	.50	.47	12	85.3	10.0	42.7	13.2	8.5		
65	4	4					.49	.45	.49	.45	.48	.45	14	58.2	12.2	29.1	15.9	5.8		
75	2	2					.46	.43	.46	.42	.45	.42	16	42.3	14.3	21.1	18.7	4.2		
85	1	1					.44	.40	.43	.40	.43	.40								
90	0	0					.42	.38	.41	.38	.41	.38								

#### NOTES:

1. 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.
2. Consult factory of IES file for other photometric reports.