

LIGHTCOLUMNS

LANDSCAPING & PATHWAY LIGHTING



GARDCO
LIGHTING

LIGHTCOLUMNS



Lightcolumns is a dramatic new approach to low and mid level lighting. A versatile collection of finely crafted performance luminaires, Lightcolumns are a striking integration of art, architecture and illumination that offer the inspiring opportunity to design with luminaires, instead of around them.

The Lightcolumns series is comprised of two companion groups – sleek, low profile four inch forms and landmark six inch diameter columns. By day the shapes are uniformly elegant, seamless and sculptural, carefully scaled for the pedestrian environment. The soft edge contemporary silhouette is a refreshing addition to both modern and classic architectural themes and are equally at home in landscape or atop hardscape surfaces. From 30" to 12', through a combination of profiles, lens, louver, lamp, glow rings, finish and height, Lightcolumns is the art of illumination.



Lightcolumns in retail and commercial applications define the environment as contemporary and distinguished, creating as well as guiding traffic. Uplights bring focus to trees, buildings and signage. Efficient downlights provide ample illumination for safe pedestrian and vehicle traffic.

◀ Lightcolumns effectively utilize state-of-the-art HID and low temperature compact fluorescent lamps.

▶ All luminaires feature 100% factory-tested ballasts and transformers mounted flush to the column housing with tamper resistant screws.



◀ Attention to detail is evident in die cast handhole covers. Silicone gasketed, they mount flush to the column housing with tamper resistant screws.

▶ Optional twin glow rings, available in four colors, provide the opportunity to create a playful, inviting space. Where blending into the landscape is desired, luminaires without glow rings or with opaque rings may be specified.



Life near the ground challenges the most rigorous design and construction regimen and is the motivation behind Lightcolumns construction. Luminaires are completely impervious to the elements... silicone-sealed at every material transition against the moisture, insects, dirt and pollutants which might lessen optical system performance and electrical integrity. Columns are high strength extruded aluminum and top sections are die cast aluminum secured with flush, tamper-resistant stainless steel fasteners. Non-yellowing lenses are injection molded or vacuum formed acrylic. Seamless design and soft detailing discourages dirt and dust from collecting on the luminaires. Finishes are the most durable known. Electrostatically-applied texture polyester powder coat finishes resist discoloration from ultraviolet light and pollutants. In short, Lightcolumns are luminaires certain to make a lasting contribution to the landscape

LIGHTCOLUMNS 6

Lightcolumns are an entirely new way to answer the question about where to hide the fixtures. The answer is; don't. Lightcolumns 6 provide a beautiful solution for illuminating large public areas and grand entrances with soft forms that attract as well as guide pedestrians. From three to twelve feet, these are strong design elements achieving remarkable lighting solutions from integrated, high performance HID optical systems. Downlights employ HPS lamps to 150W and metal halide lamps to 175 W. These high lumen E-17 packages combine with specular Alzak collecting and distributing reflectors to provide broad light patterns with carefully controlled aperture brightness.

With HID lamps completely concealed at normal viewing angles, glare control of downlight LD600 luminaires is exceptional. 180° and 360° distributions are available. In addition, the LD630 and LD650 downlights utilize prismatic refractors which significantly increase light levels and luminaire spacing. Optional, edge-lighted glow rings are internally illuminated by the primary source. Alternatively, the distinctive ring detail can be painted to match the luminaire.

LU610 uplight models are aimable 358° horizontally and are vertically adjustable from zenith to 45°, providing controlled light through the tempered glass top lens, or at an angle through the radial louver. The effect of this accent uplighting on trees and buildings is dramatic... restoring three-dimensional visibility by effectively removing the "ceiling" from the nighttime environment. Of course, glare control is exceptional – with E-17 or PAR type HID lamps completely concealed at 90° angles.

Complementing these dramatic uplighting possibilities, the LU610ML adds a very practical midsection downlight component which significantly enlarges both siting and illumination opportunities. Now, with a single luminaire, the designer is able to place the source of dramatic uplight above eye level and glare-free downlight below eye level.



Uplighting trees and buildings – enlarging the nighttime visual field is site lighting's new frontier. Lightcolumns is a simple integrated solution where pedestrians move in a glare free, high visibility environment with the downlight from below and uplight from above the eye.



An eloquent argument in favor of luminaires as well versed in engineering as architecture, Lightcolumns 6 may be the first luminaire worthy of marking architecture's most grand entrances.



Uplight luminaires are fully adjustable to 45° vertical and 358° horizontal and feature positive aiming locks to secure the desired lamp position during relamping. Die cast louvers conceal source at 90°.



LU610ML units feature four flush, midsection die castings. Louvered or solid, they provide 360° or 180° low glare downlight distributions.

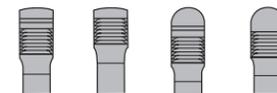
LIGHTCOLUMNS 4

Lightcolumns 4 is a better solution to a number of challenging illumination requirements. They are placed like bollards, yet are more versatile than any before imagined. Though sleek in scale, their rugged die cast and extruded construction makes them suitable for commercial landscapes.

Louvered Lightcolumns 4 combine efficiency with performance. There are four styles, cylindrical or dome tops, with or without twin glow rings and choice of 35W-50W HID or compact fluorescent lamps. Unique louvered optics with specular Alzak undersides and black or white (optional) topsides, provide exceptionally wide and uniform distribution with extremely low brightness.



Lightcolumns make possible a variety of lighting solutions from a consistent architectural form that perform as well as they look. Above, 4" louvered products deliver low glare surface illumination and companion 6" luminaires provide dramatic spotlighting of flags.



LOUVERED DOWNLIGHT

A wide selection of finishes and options create remarkable architectural versatility. Units finished in black, bronze or special earth tones create compatibility with most landscapes elements. White or natural Lightcolumns complement adjacent commercial details.

DOWNLIGHT PHOTOMETRICS

Isofoot Candles

Lightcolumns 4

50W HPS White Louvers			
Luminaire Height			
30"	42"	60"	
16.5	10.6	3.1	
5.6	4.8	3.9	
1.7	2.5	2.0	
0.8	1.1	1.4	
0.3	0.6	0.8	

Lightcolumns 6*

150W HPS			
Luminaire Height			
7'	8.5'	10'	
16.5	10.6	3.1	
5.6	4.8	3.9	
1.7	2.5	2.0	
0.8	1.1	1.4	

175 W MH			
Luminaire Height			
7'	8.5'	10'	
4.7	6.4	8.7	
2.0	2.3	2.1	
0.4	0.9	1.3	
0.2	0.2	0.5	

Lightcolumns 6 Pathway Lighting*



Average Footcandles on Walkway (from multiple units in series)

150W HPS

Luminaire Height	Luminaire Spacing			
	20'	30'	40'	50'
7'	14.3	9.6	7.3	5.8
8.5'	11.4	7.7	5.7	4.6
10'	9.4	6.5	4.9	3.8

175W MH

Luminaire Height	Luminaire Spacing			
	20'	30'	40'	50'
7'	14.4	9.8	7.4	5.8
8.5'	11.5	7.8	5.9	4.7
10'	9.5	6.4	4.8	3.9

Lightcolumns 6 Area Lighting*



Average Footcandles in Area (from multiple units in grid configuration)

150W HPS

Luminaire Height	Luminaire Spacing			
	20'	30'	40'	50'
7'	13.5	6.8	4.1	2.7
8.5'	12.6	6.1	3.7	2.4
10'	13.1	6.2	3.7	2.5

175W MH

Luminaire Height	Luminaire Spacing			
	20'	30'	40'	50'
7'	13.0	6.5	3.9	2.6
8.5'	13.2	6.4	3.8	2.6
10'	13.4	6.2	3.7	2.5

UPLIGHT PHOTOMETRICS

E-17 Metal Halide Lightcolumns 6

100W MH E-17 Spot Position			100W MH E-17 Flood Position		
50	8.5	25	17.9	25	17.9
40	13.3	20	28.0	20	28.0
30	23.6	15	49.7	15	49.7
20	53.0	10	111	10	111
10	214	5	448	5	448
Feet	Ftc's	Feet	Ftc's	Feet	Ftc's

Outer Beam (to 10% Max C.P.): 39° Inner Beam (to 50% Max C.P.): 13° Outer Beam (to 10% Max C.P.): 73° Inner Beam (to 50% Max C.P.): 18°

PAR-38 Metal Halide Lightcolumns 6

100W MH PAR-38 NSP			100W MH PAR-38 VWFL		
50	6.7	25	6.2	50	25
40	10.4	20	9.7	40	20
30	18.5	15	17.3	30	15
20	41.8	10	39.0	20	10
10	167	5	156	10	5
Feet	Ftc's	Feet	Ftc's	Feet	Ftc's

Outer Beam (to 10% Max C.P.): 48° Inner Beam (to 50% Max C.P.): 24° Outer Beam (to 10% Max C.P.): 96° Inner Beam (to 50% Max C.P.): 62°

R-40 Metal Halide Lightcolumns 6

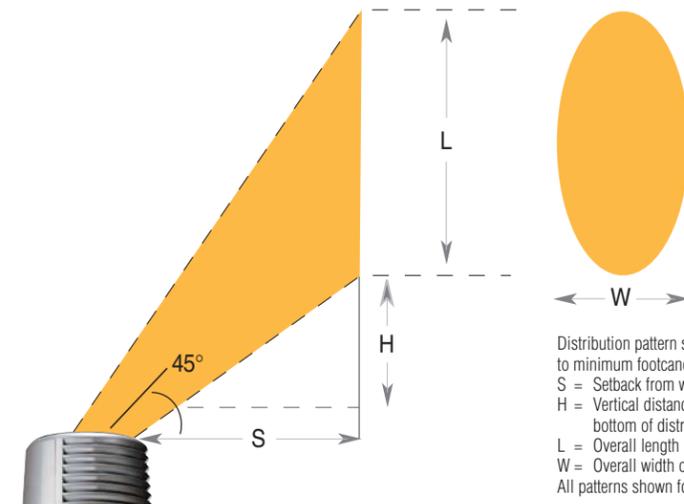
175W MH R-40 SP			175W MH R-40 FL		
50	19.8	25	6.1	25	25
40	31.0	20	9.6	20	20
30	55.0	15	17.0	15	15
20	124	10	38.4	10	10
10	495	5	154	5	5
Feet	Ftc's	Feet	Ftc's	Feet	Ftc's

Outer Beam (to 10% Max C.P.): 46° Inner Beam (to 50% Max C.P.): 16° Outer Beam (to 10% Max C.P.): 130° Inner Beam (to 50% Max C.P.): 85°

R-40 Mercury Vapor Lightcolumns 6

100W MV R-40 FL			175W MV R-40 FL		
50	9	25	2.0	25	25
40	1.5	20	3.1	20	20
30	2.6	15	5.6	15	15
20	5.9	10	12.6	10	10
10	23.6	5	50.4	5	5
Feet	Ftc's	Feet	Ftc's	Feet	Ftc's

Outer Beam (to 10% Max C.P.): 143° Inner Beam (to 50% Max C.P.): 117° Outer Beam (to 10% Max C.P.): 142° Inner Beam (to 50% Max C.P.): 97°



100W MH E-17 Spot Position

S	Max F.C.	Avg. F.C.	H	L	W
10'	41.4	29.2	5	5	4
15'	19.0	11.6	8	8	6
20'	11.1	6.5	10	11	8
25'	7.1	4.2	13	13	10

100W MH E-17 Flood Position

S	Max F.C.	Avg. F.C.	H	L	W
5'	93.4	56.8	2	5	2
10'	25.9	8.9	4	10	6
15'	11.5	6.6	6	15	8
20'	6.6	3.7	8	20	12

100W MH PAR-38 NSP

S	Max F.C.	Avg. F.C.	H	L	W
10'	43.6	26.7	7	7	7
15'	19.7	11.2	10	11	10
20'	11.1	6.9	14	15	14
25'	7.1	4.1	17	20	18

100W MH PAR-38 VWFL

S	Max F.C.	Avg. F.C.	H	L	W
5'	38.3	21.3	2	5	8
10'	9.8	5.3	3	12	16
15'	4.3	2.4	4	19	24
20'	2.4	1.3	5	26	32

175W MH R-40 Spot

S	Max F.C.	Avg. F.C.	H	L	W
10'	147.0	88.0	7	5	4
15'	65.2	34.2	10	10	7
20'	36.6	21.0	14	11	8
25'	23.5	13.1	17	13	9

175W MH R-40 Flood

S	Max F.C.	Avg. F.C.	H	L	W
5'	59.1	32.8	1	8	8
10'	14.8	8.3	1	14	15
15'	6.6	3.9	2	20	23
20'	3.7	2.1	3	27	30

100W MV R-40 WFL

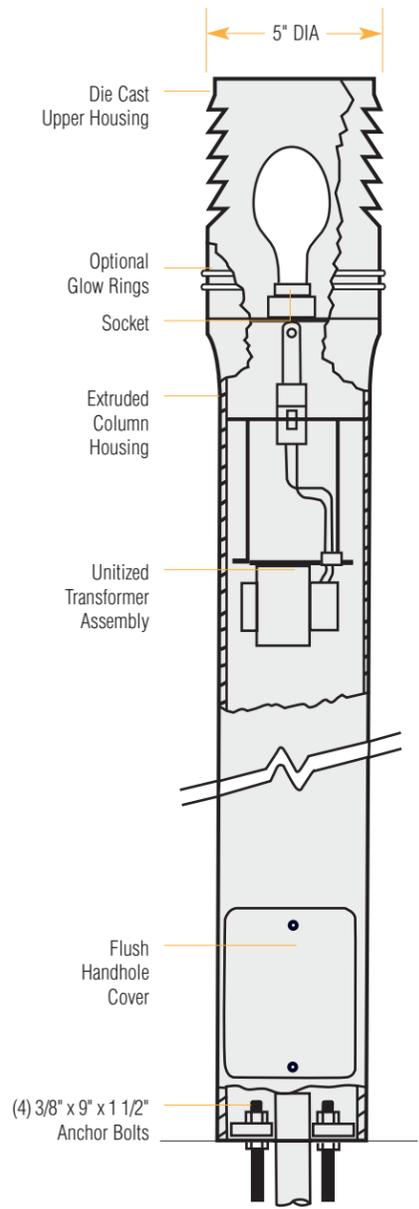
S	Max F.C.	Avg. F.C.	H	L	W
5'	6.8	3.9	1	7	9
10'	1.7	1.0	1	15	19
15'	.8	.3	1	24	29
20'	.5	.2	-	-	-

175W MV R-40 WFL

S	Max F.C.	Avg. F.C.	H	L	W
5'	14.7	8.3	1	7	9
10'	3.7	2.5	1	15	18
15'	1.6	1.1	1	23	27
20'	.9	.3	2	31	43

*Lightcolumns 6 downlight photometry shown is based on LD600 reflector optics. When higher light levels and wider spacings are required, contact factory for photometric data on LD630 and LD650 reflector downlights.

LIGHTCOLUMNS 4 ORDERING



Example	PREFIX	GLOW RINGS	HEIGHT	LAMP	VOLTAGE	FINISH	OPTIONS
LD 452 CL	RR	42"	50 HPS	120	BLP	F	

HID LOUVERED DOWNLIGHTS

Flat Top	LD 452 CL	RC	30"	35 HPS	120	BLP	F
Dome Top	LD 452 ML	RY	42"	50 HPS	277	BRP	WL
		RG	60"	50 MH*		NP	
		RR				WP	
		RX				OC	
						SC	

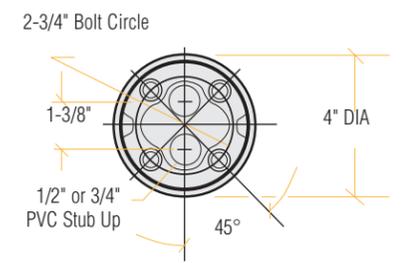
QUAD TUBE COMPACT FLUORESCENT LOUVERED DOWNLIGHT

Flat Top	LD 453 CL	RC	24"	26QF ^{1,2}	120 ^{1,2}	BLP	F
Dome Top	LD 453 ML	RY	30"	32TRF ^{1,2}	277 ^{1,2}	BRP	WL
		RG	42"	42TRF ^{1,2}	347 ³	NP	
		RR				WP	
		RX				OC	
						SC	

GLOW RINGS		FINISH		OPTIONS	
RC	Clear	BLP	Black Paint	F	Fusing (HID units only)
RY	Yellow	BRP	Bronze Paint	WL	White Louvers (Black Louvers are supplied standard)
RG	Green	NP	Natural Paint		
RR	Red	WP	White Paint		
RX	Opaque	OC	Optional Color Paint		
(Leave column empty if no glow rings are desired.)		Specify RAL designation as shown in Color Selection Guide			
		SC	Special Finish (Color chip required)		

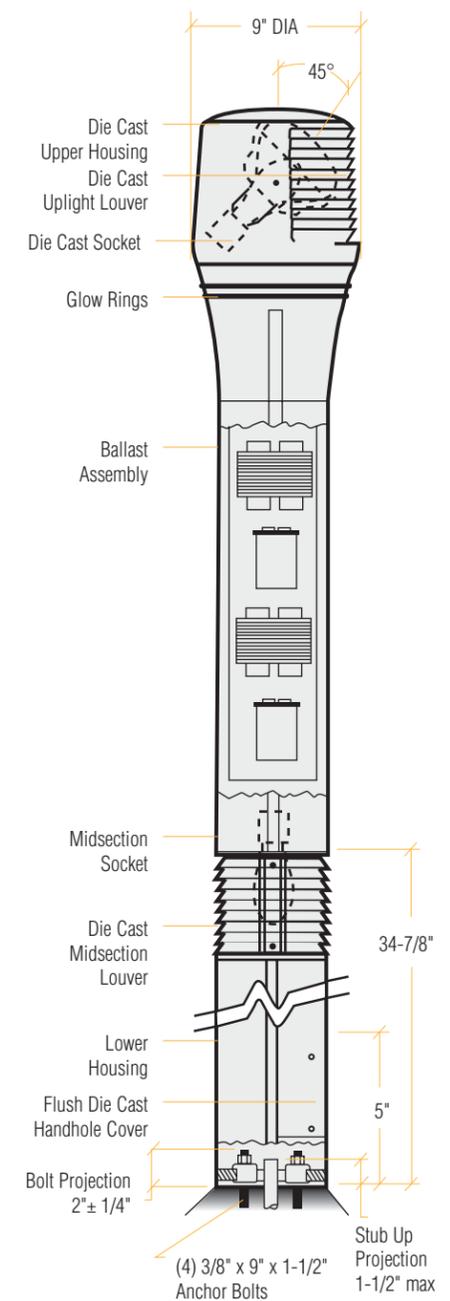
- 26QF, 32TRF and 42TRF types feature an electronic fluorescent ballast that accepts 120V through 277V, 50HZ or 60HZ input.
- Starting temperature is 0° F.
- Consult factory for 347V availability prior to ordering.

Lightcolumns bear UL or CUL (where applicable) Wet Location labels.



Typical Lightcolumns 4 construction. For complete product specifications and dimensions, refer to submittal data sheets.

LIGHTCOLUMNS 6 ORDERING



Example	PREFIX	GLOW RINGS	HEIGHT	TOP E17 LAMP	MIDSECTION E17 LAMP	VOLTAGE	FINISH	OPTIONS
LU610ML	G	120"	175 MH	100 MH	120	BLP	F	

UPLIGHT

LU 610	C	36"	50 HPS ^{1,2}	120	BLP	F
	Y	42"	50 MH ^{1,2}	277	BRP	RL
	G	66"	70 MH		WP	
	R	84"	70 HPS		NP	
	X	102"	100 HPS ¹		OC	
		120"	100 MH		SC	
		144"	150 HPS ¹			
			175 MH			

UPLIGHT WITH MIDSECTION DOWNLIGHT

360° Downlight	LU 610 ML	C	84"	50 HPS ^{1,2}	50 HPS ²	120	BLP	F
180° Downlight	LU 610 ML1	Y	102"	50 MH ^{1,2}	50 MH ²	277	BRP	RL
		G	120"	70 MH	70 MH		WP	
		R		70 HPS ¹	70 HPS		NP	
		X		100 HPS ¹	100 HPS		OC	
				100 MH	100 MH		SC	
				150 HPS ¹				
				175 MH ¹				

DOWNLIGHT

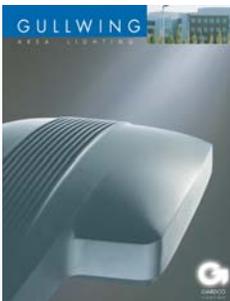
LD600	C	42"	50 HPS ²	120	BLP	F
	Y	66"	50 MH ²	277	BRP	HS
	G	84"	70 MH	347 ³	WP	
	R	120"	70 HPS ¹		WP	
	X	144"	100 HPS ¹		NP	
			100 MH		OC	
			150 HPS ¹		SC	
			175 MH ¹			
			175 PSMH			

GLOW RINGS		FINISH		OPTIONS	
C	Clear	BLP	Black Paint	F	Fusing
Y	Yellow	BRP	Bronze Paint	RL	Reflector Type (R or PAR) Top Lamp. Available with 70R40, 100R40 or PAR 38, 70, 100
G	Green	WP	White Paint	HS	180° House Side Shield
R	Red	NP	Natural Paint		
X	Opaque	OC	Optional Color Paint (Specify RAL designation as shown in Color Selection Guide)		
		SC	Special Finish (Color chip required)		

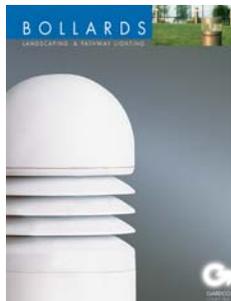
- RL option not available.
- Not available with 347V.
- Consult factory for 347V availability prior to ordering.

Lightcolumns bear UL or CUL (where applicable) Wet Location labels.

Gullwing



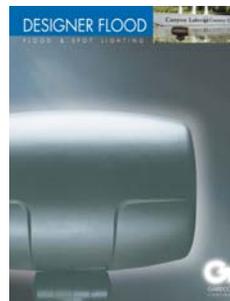
Bollards



Step and Aisle Lights



Floodlights



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