

Technical Specifications

Date:	Location:
Type:	Project:
Catalog #:	

Quadra Series

LED Post Top Luminaire Series
with Revolutionary eQuantum Optical System



Product Description

The Quadra Series LED decorative post top luminaire features contemporary styling with a classic geometric form. Utilizing a state of the art LED engine combined with advanced eQuantum optics for precise control and energy-efficiency of up to 157 lumens per watt.

Typical applications include: Retail and destination venues, parks, plazas and site lighting.

Product Performance

- Wattage Range: 44W-160W
- Low glare due to small Mid-power LEDs driven at low drive currents
- Input Voltage: 120-277V, 277-480V
- 20kA surge protection standard
- CCT: 3000K, 4000K and 5000K, Amber available*
- CRI: 80 CRI Standard, other CRI available consult factory
- UL1598 Compliant
- IP66 Rated optical chamber for dust and moisture free performance
- Third party wireless control compatibility (consult factory)
- Mounts to standard 5" pole with optional tenons for 3" and 4" poles
- Standard 5 year warranty (materials and workmanship)



Available 3rd Quarter 2023

Key Data	
Model	QDA
Lumen Range	6,000-20,000
Wattage Range	44-160
Efficacy Range	Up to 157 LPW
Fixture Life	L70@25°C > 100,000 hours
Weight	30.0 lbs
EPA	0.5

Product Specifications

Construction & Materials

- Constructed of copper-free, die-cast A356 aluminum
- Multi stage pre-treatment and high-durability TGIC powder coat finish, optional anodized pre-treatment marine finish
- Standard marine grade fasteners
- PMMA (Polymethyl methacrylate) high durability, non-discoloring lens

Electrical System

- Input Voltage: 120-277VAC, 277-480VAC
- Power Factor: > 0.9
- Total Harmonic Distortion: <20%
- 20kA surge protection standard
- Operating Temperature Range: -40°C to 60°C

Optical System

- Type II, III, IV, V square

Testing & Certifications

- cETLus Listed
- UL1598, CSA STD.22.2 compliant
- IK07 Impact Rated
- 3G Vibration Rated
- IP66 Rated
- RoHS Compliant
- Meets ARRA requirements

Lumen Maintenance

L70@ 25°C >100,000 hours



Quadra Series

Ordering Information Example: QDA-4M-20-4K8-MV-SV-FS-HSS

Catalog Number:

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Series	Distribution	Output Type ²	CCT Code ³	Voltage	Fixture Color	
QDA - Quadra	2M - Type 2, Medium	06 - 6,000 Lumens, 44W	3K8 - 3000K, 80 CRI	MV - 120-277V	WH - White	
	3M - Type 3, Medium	08 - 8,000 Lumens, 55W	4K8 - 4000K, 80 CRI	HV - 277-480V	SV - Silver	
	4M - Type 4, Medium	10 - 10,000 Lumens, 74W	5K8 - 5000K, 80 CRI		BL - Black	
	5MQ - Type 5, Square	12 - 12,000 Lumens, 94W	AMK - Amber (Specific Lumen Output)		BZ - Bronze	
	COO - Custom Optic Orientation	14 - 14,000 Lumens, 106W	Other CCT & CRI - Consult Factory			TC - Green
		16 - 16,000 Lumens, 120W				RAL - Custom Color (Specify RAL)
		18 - 18,000 Lumens, 137W				
		20 - 20,000 Lumens, 160W				

SLO - Specific Lumen Output

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Shade Style ⁴ (Factory Installed)	Mounting Options ⁵	Options (Factory Installed)
NS - No Shade	RPA3 - 3" Round Pole Adapter	D2D - 120-277VAC Dusk to Dawn Photocell
FS - Flat Shade	RPA4 - 4" Round Pole Adapter	HSS - House Side Shield
SS - Stepped Shade		
CS - Curved Shade		

¹ Specify custom optic orientation details

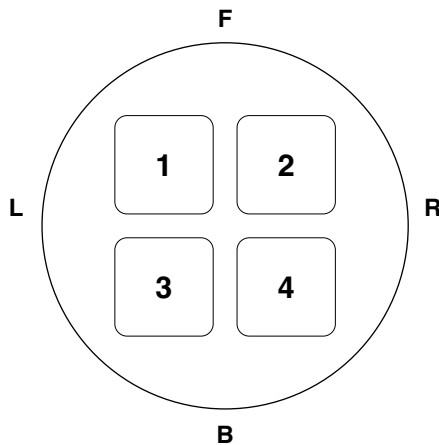
² See page 5 for specific lumen outputs for each distribution

³ 80 CRI standard, other CCTs available consult factory

⁴ See page 3 for styles and dimensions

⁵ See page 3 for dimensions, consult factory for custom mounting solutions

Custom Optic Orientation Details (For COO Distribution Only)

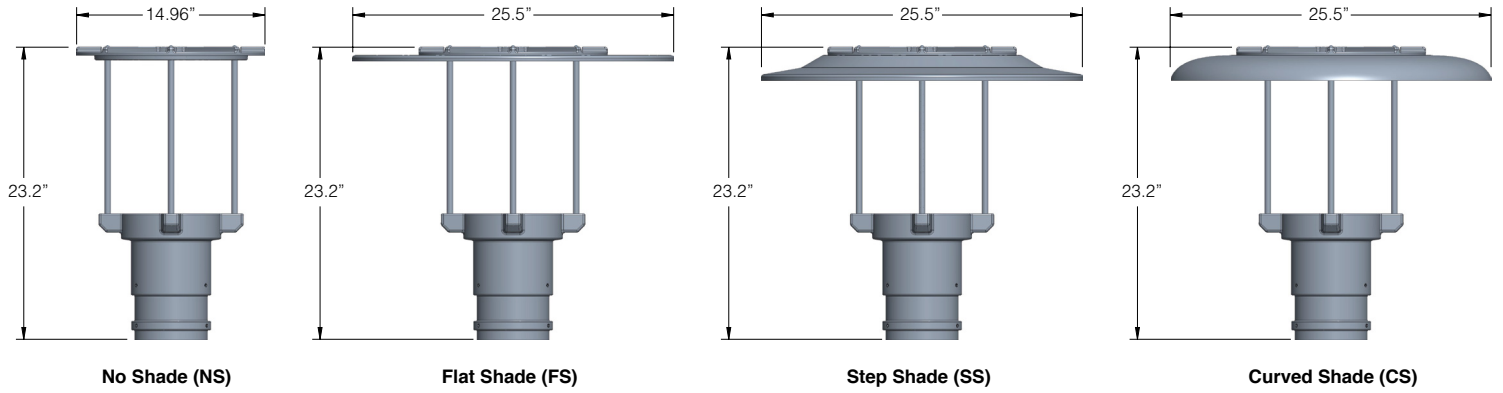


Position	Distribution (3M, 4M, 5MQ)	Orientation (F, B, L, R)
1		
2		
3		
4		

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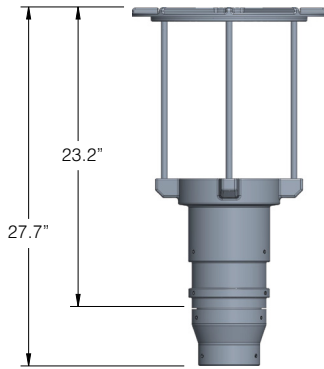
Quadra Series

Dimensions

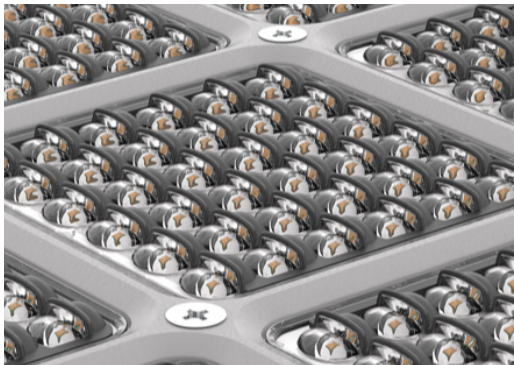


EPA: 0.5 Weight: 30.0 lb

Round Pole Adapter (RPA3 & RPA4)



Optional House Side Shield (HSS)



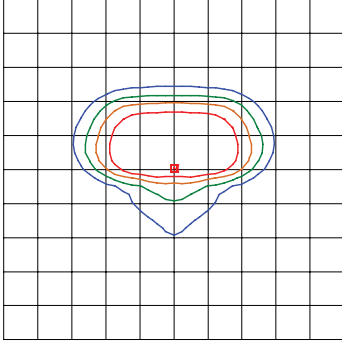
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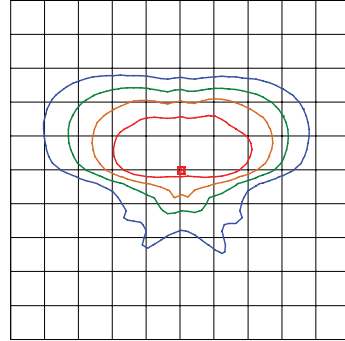
Photometry

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configuration shown. Actual performance may differ as a result of end user environment and application.

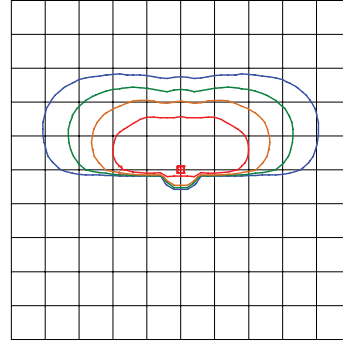
Type 2, Medium



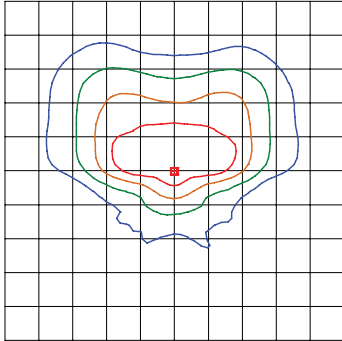
Type 3, Medium



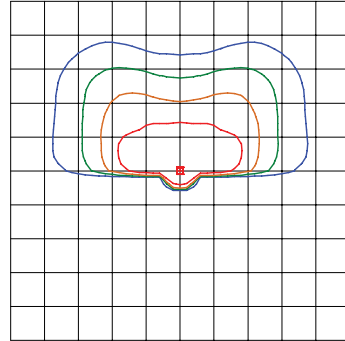
Type 3, Medium - HSS



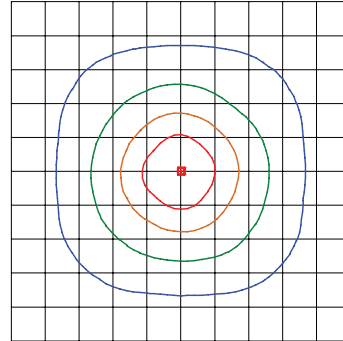
Type 4, Medium



Type 4, Medium - HSS

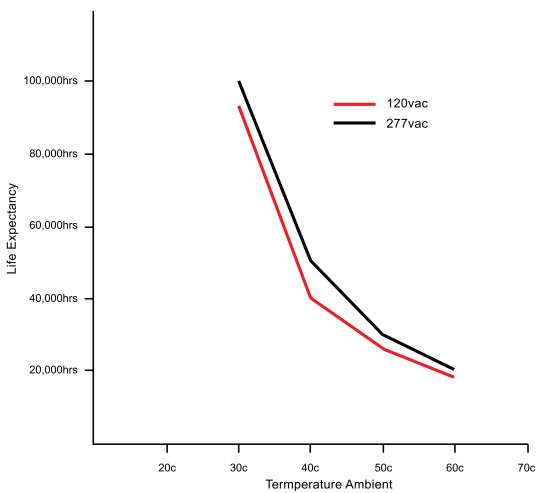


Type 5, Square



Thermal De-Rating Curve

Life expectancy vs ambient temperature



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Quadra Series

Optical Performance (All values are for 4000K CCT, 70 CRI)

MODEL/WATTS	DISTRIBUTION	STREETSIDE LUMENS	HOUSESIDE LUMENS	TOTAL LUMENS	LPW	B	U	G
QDA-06 44W (4000K, 70 CRI)	2M	5633.3 (86.1%)	912.7 (13.9%)	6546	148.8	1	0	1
	3M	5701.2 (82.2%)	1230.8 (17.8%)	6932	157.4	1	0	2
	3M-HSS	4459.2 (91.9%)	392.7 (8.1%)	4851.9	110.3	0	0	1
	4M	5416.1 (81.3%)	1242.7 (18.7%)	6658.8	151.3	1	0	2
	4M-HSS	4902.3 (92.3%)	409.7 (7.7%)	5312	120.7	1	0	2
	5MQ	3328.6 (48.7%)	3503.2 (51.3%)	6831.8	155.3	3	0	3
QDA-10 74W (4000K, 70 CRI)	2M	8757.2 (86.1%)	1418.9 (13.9%)	10176.1	137.5	1	0	1
	3M	8862.8 (82.2%)	1913.3 (17.8%)	10776.1	145.6	2	0	2
	3M-HSS	6932.3 (91.9%)	610.5 (8.1%)	7542.8	101.9	1	0	2
	4M	8420.5 (81.3%)	1932 (18.7%)	10352.5	139.9	2	0	2
	4M-HSS	7621.1 (92.3%)	637 (7.7%)	8258.1	111.6	1	0	2
	5MQ	5174.7 (48.7%)	5446.1 (51.3%)	10620.8	143.5	4	0	4
QDA-14 106W (4000K, 70 CRI)	2M	12254.6 (86.1%)	1985.5 (13.9%)	14240.1	134.3	2	0	1
	3M	12401.7 (82.2%)	2677.7 (17.8%)	15079	142.2	2	0	3
	3M-HSS	9700.5 (91.9%)	854.2 (8.1%)	10554.7	99.6	1	0	2
	4M	11782.8 (81.3%)	2703.4 (18.7%)	14486.2	136.7	2	0	3
	4M-HSS	10663.9 (92.3%)	891.3 (7.7%)	11555.2	109	1	0	3
	5MQ	7240.9 (48.7%)	7620.8 (51.3%)	14861.7	140.2	4	0	5
QDA-18 137W (4000K, 70 CRI)	2M	14995.6 (86.1%)	2429.6 (13.9%)	17425.2	127.2	2	0	2
	3M	15177.5 (82.2%)	3276.6 (17.8%)	18454.1	134.7	3	0	3
	3M-HSS	11872.2 (91.9%)	1045.5 (8.1%)	12917.7	94.3	1	0	2
	4M	14418.8 (81.3%)	3308.2 (18.7%)	17727	129.4	3	0	3
	4M-HSS	13050.5 (92.3%)	1090.7 (7.7%)	14141.2	103.2	1	0	3
	5MQ	8861.4 (48.7%)	9326.2 (51.3%)	18187.6	132.8	4	0	5

MODEL/WATTS	DISTRIBUTION	STREETSIDE LUMENS	HOUSESIDE LUMENS	TOTAL LUMENS	LPW	B	U	G
QDA-08 55W (4000K, 70 CRI)	2M	6973.2 (86.1%)	1129.8 (13.9%)	8103	147.3	1	0	1
	3M	7056.6 (82.2%)	1523.4 (17.8%)	8580	156	2	0	2
	3M-HSS	5519.7 (91.9%)	486.1 (8.1%)	6005.8	109.2	1	0	2
	4M	6704.5 (81.3%)	1538.2 (18.7%)	8242.7	149.9	2	0	2
	4M-HSS	6068.8 (92.3%)	507.2 (7.7%)	6576	119.6	1	0	2
	5MQ	4120.4 (48.7%)	4336.5 (51.3%)	8456.9	153.8	3	0	3
QDA-12 96W (4000K, 70 CRI)	2M	10839 (86.1%)	1756.1 (13.9%)	12595.1	131.2	2	0	1
	3M	10969.8 (82.2%)	2365.2 (17.8%)	13338	138.9	2	0	2
	3M-HSS	8581.1 (91.9%)	755.7 (8.1%)	9336.8	97.3	1	0	2
	4M	10422 (81.3%)	2391.2 (18.7%)	12813.2	133.5	2	0	3
	4M-HSS	9432.7 (92.3%)	788.4 (7.7%)	10221.1	106.5	1	0	3
	5MQ	6404.9 (48.7%)	6740.9 (51.3%)	13145.8	136.9	4	0	4
QDA-16 120W (4000K, 70 CRI)	2M	13531.7 (86.1%)	2192.4 (13.9%)	15724.1	131	2	0	2
	3M	13964.6 (82.2%)	2956.5 (17.8%)	16651.1	138.8	3	0	3
	3M-HSS	10712.3 (91.1%)	943.3 (8.1%)	11655.7	97.1	1	0	2
	4M	13010.9 (81.3%)	2985.2 (18.7%)	15996.1	133	3	0	3
	4M-HSS	11775.9 (92.3%)	984.2 (7.7%)	12760.1	106.3	1	0	3
	5MQ	7995.6 (48.7%)	8415 (51.3%)	16410.6	136.8	4	0	5
QDA-20 160W (4000K, 70 CRI)	2M	16661.7 (86.1%)	2699.5 (13.9%)	19361.2	121	2	0	2
	3M	16862.7 (82.2%)	3640.4 (17.8%)	20503.1	128.1	3	0	3
	3M-HSS	13190.1 (91.9%)	1161.5 (8.1%)	14351.6	89.7	1	0	3
	4M	16020.4 (81.3%)	3675.6 (18.7%)	19696	123.1	3	0	4
	4M-HSS	14499.6 (92.3%)	1211.9 (7.7%)	15711.5	98.2	1	0	3
	5MQ	9845.6 (48.7%)	10362 (51.3%)	20207.6	126.3	5	0	5

Lumen Multiplier (CRI)

CRI (80 CRI STD)	Lumen Multiplier
3000K, 80 CRI	0.942
4000K, 80 CRI	0.904
5000K, 80 CRI	0.850

Lumen Multiplier (Temp)

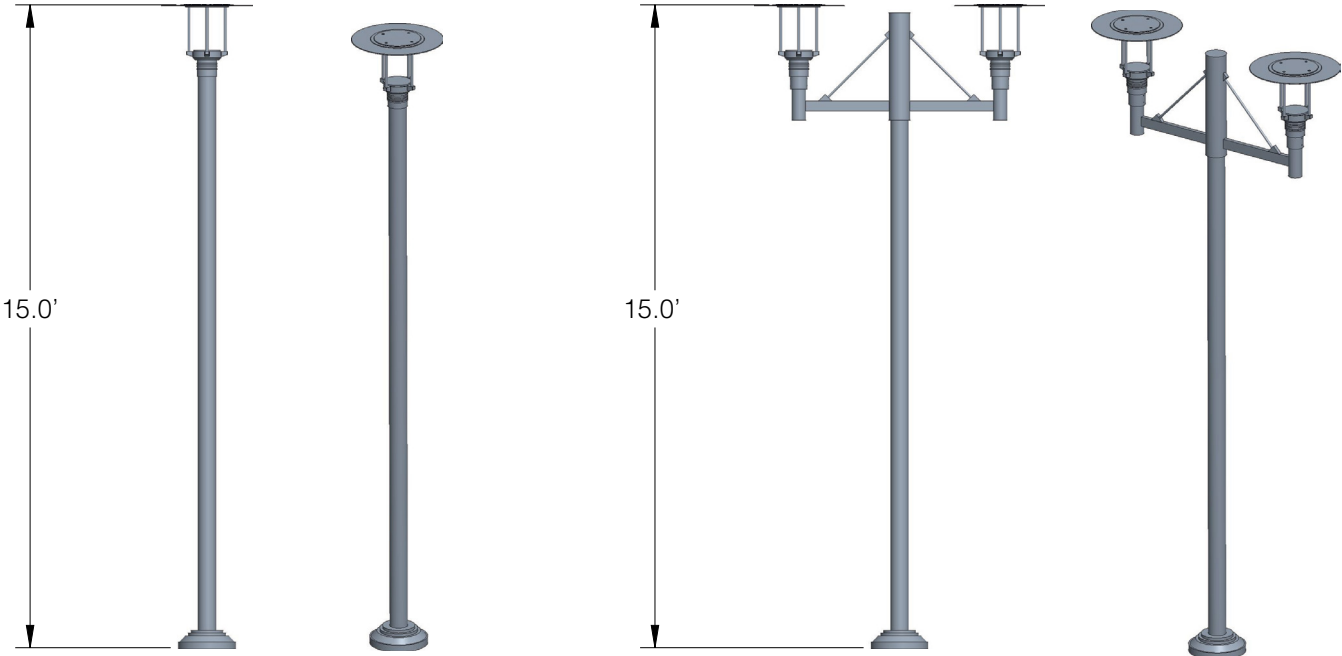
Ambient Temperature	0°C (32°F)	5°C (41°F)	10°C (50°F)	15°C (59°F)	20°C (68°F)	25°C (77°F)	30°C (86°F)	35°C (95°F)	40°C (104°F)	45°C (113°F)	50°C (122°F)
Lumen Multiplier	1.05	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95

Electrical Load

System Watts (QDA)	Current (A)					
	120V	208V	240V	277V	347V	480V
06 - 6,000 Lumens, 44W	0.37	0.21	0.18	0.16	0.13	0.09
08 - 8,000 Lumens, 55W	0.46	0.26	0.23	0.20	0.16	0.11
10 - 10,000 Lumens, 74W	0.62	0.36	0.31	0.27	0.21	0.15
12 - 12,000 Lumens, 94W	0.78	0.45	0.39	0.34	0.27	0.20
14 - 14,000 Lumens, 106W	0.88	0.51	0.44	0.38	0.31	0.22
16 - 16,000 Lumens, 120W	1.00	0.58	0.50	0.43	0.35	0.25
18 - 18,000 Lumens, 137W	1.14	0.66	0.57	0.49	0.39	0.29
20 - 20,000 Lumens, 160W	1.33	0.77	0.67	0.58	0.46	0.33

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Quadra Series



Part Number	Description
ELP-X-X-X-X-X-X	Pole
BS-X-X	Base
ELA-X-X-X	Arm

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