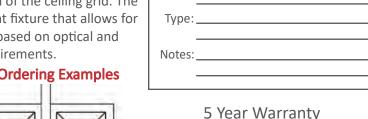




The **QUAD** Luminaire features a Patented mounting system over the intersection of the ceiling grid. The Quad is a modular Downlight fixture that allows for different configurations based on optical and aesthetic requirements.

SEE PAGE 6 For More Ordering Examples

*FASTSIZE tiles made-toorder through your Armstrong rep. Contact Armstrong for compatible



Project:

Patent - US Utility Patent # 10,859,242

Patent - US Design Patent # D885650

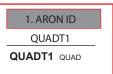








Shown: QuadT1-FSQ-ARB240K8500-BRB240K8500-CRB240K8500-DRB240K8500-...



LE

lo.

2. CEILING TYPE

FSQ Flat Grid - Square Quadrants

DWSQ Drywall Trim - Square Quadrants

SSSQ Screw Slot Grid - Square Quadrants DW Only Available in 4 or 1 quadrants - See QUAD SOLO

Light Source

5. QUADRANT C

Quadrant Lumens

250

400

500

750

RB1 Lensing

to Page 9

CCT/CRI Light Source Lumens W35K9 -OR-

125 lm @ 1.5 W

250 lm @ 3.1W

400 lm @ 4.8 W

500 lm @ 6.0 W

750 lm @ 9.0 W

1000 1000 lm @ 12.1W

**Contact factory for different lumen

(i.e) ARB1W30K8500_BRB1W30K8300

**Quadrant Wattage Taken @ 35K8 with

**For Spotlight Lumen Packages, Refer

*FOR NO QUADRANT - LIST "X" In Light Source

packages within the same fixture

6. QUADRANT D

Li	ght Source	CCT/CRI	_	Lumens		
D						
		-OR-				
	Device		Add	d. Spec		
D						
	SPK					
	IoT					

*Reference Page 11 and enter Speaker Code in Add. Spec

*Reference Page 13 and enter Sensor Code in Add. Spec *Contact Factory For Detials Security Camera Code in Add. Spec

> *Contact Factory For Different Paint Color Options of IoT Devices - White Color Standard

3. QUADRANT A

	Light Source	CCT/CRI	Lumens
DΑ			
Χ.	RB1	W35K8	500
		-OR-	
	Device	Ade	d. Spec
ΤА			
· v		_	

Light Source

RB1 Regressed Lens - Beam 1 Medium RB2 Regressed Lens - Beam 2 Wide *Reference Page 3 for beam distributions.

Drop Lens Specify Drop Length (.5", .75", 1")

*Reference Page 4 for Droplens

Spotlight *Reference Page 9 and enter Spotlight Specification

*Spotlight Only Available in 90CRI

WW1 Wall Wash Beam 1 WW2 Wall Wash Beam 2

*(N,E,S,W) Must Specify Direction of Light - See diagram On Page 5

*FOR NO QUADRANT - LIST "X" In Light Source

В								
	RB1	W35K8	500					
		-OR-						
	Device	Ade	d. Spec					
В	3							
	CCT/CRI							

4. QUADRANT B CCT/CRI

Lumens

Static White

*Specify CCT 27K8 - 2700K, 80CRI 27K9 - 2700K, 90CRI 30K8 - 3000K, 80CRI 30K9 - 3000K, 90CRI 35K8 - 3500K, 80CRI 35K9 - 3500K, 90CRI ANKS - ANNOK SOCRI 40K9 - 4000K, 90CR

-OR-**RGBW**

EX.

*Specify White CCT

*Only Available for R & DL & WW 27K9 - 2700K, 80CRI 27K9 - 2700K, 90CRI

9. FINISH

W Matte White

Custom

Color (Specify RAL)

Custom Color

(Trim & Bevel

*Contact Factory C2 -Custom Trim & Bevel

Different Colors)

BLK Matte Black

30K8 - 3000K 80CRI 30K9 - 3000K, 90CRI 35K8 - 3500K, 80CRI 35K9 - 3500K 90CRI 40K8 - 4000K, 80CRI 40K9 - 4000K, 90CRI

E10W

Independent Quadrant 2 Dimming Channels

Emergency 10W;

Dimming Control (Max

CP Chicago Plenum

7. VOLTAGE

EX.

UNV 120-277V 347 347V POE Power over

Ethernet

8. DRIVER/CONTROL

EX. DM

> Factory 0-10V Dim 1% DM

BT Bluetooth Dali System DALI **DMX** DMX System

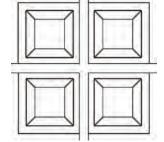
**See Page 3 for Bluetooth Information, Consult Factory

10. EM/OPTIONS

EM10

Integral

EXAMPLE Fixture



QuadT1-FSQ-ARB1W35K8500-BRB1W35K8500-CRB1W35K8500-DRB1W35K8500-UNV-DM-W

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Designed and Manufactured in the USA



Housing Types

Flat Housing



- Notate "FSQ" in Ordering Guide
- Designed for Flat 9/16" & 15/16" Grids

Screw Slot Housing



- Notate "SSSQ" in Ordering Guide
- Designed for Dimensional 9/16" Grids

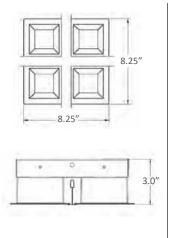
Drywall Housing



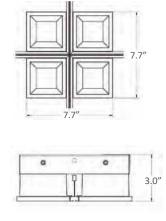
- Notate "DWSQ" in Ordering Guide

Dimensions

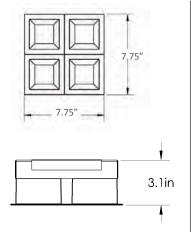
Flat Housing



Screw Slot Housing

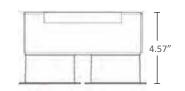


Drywall Housing



EM Housing

*Height Dimension for all housing Types with EM Battery



*Used for RGBW & EM Options

Construction

- · Cast Aluminum housing
- Powder coated paint
- Galvanized sheet metal components
- Mate with Flat 15/16", 9/16" and Dimensional 9/16" TBars

Optical

- Symmetric and asymmetric distributions
- Coated Acrylic light guide
- Coated Acrylic diffuser
- Minimum 80 or 90 CRI
- 3000K, 3500K, 4000K
- ≤ 3 SDCM

Electrical

- Integral high efficiency driver
- 0-10V dimming (1%) standard
- Class 2
- Optional remote battery pack

Weight

4Q = 10 lbs

3Q = 8.5 lbs

2Q = 7.0 lbs

2Q - 7.0 ID:

1Q = 5.5 lbs

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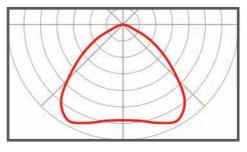
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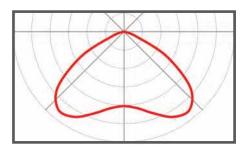




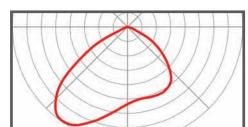
Beam Options



RB1 - Medium



RB2- Wide



Contact factory for custom configurations

WW- Wall Wash Asymmetric
*See Page X

Fixture Wattages

*Fixture Wattage Tested with RB2 Lensing

Lumens/Quadrant	Watts/Quadrant
125	1.53
250	3.0
500	6.0
750	9.0

Lumens/Fixture	Watts/Fixture
750	9.0
1000	12.0
1500	18.1
2000	24.1
2500	30.1
3000	35.8

Bluetooth Technology



With our BubblyNet OEM partnership,
realize the power of bluetooth lighting control!
Offering wall controlers, integrated fixture sensors,
tunable white/ rgbw contol. Contact Factory for More Information

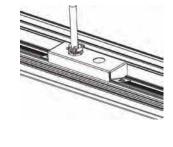


PoE Technology









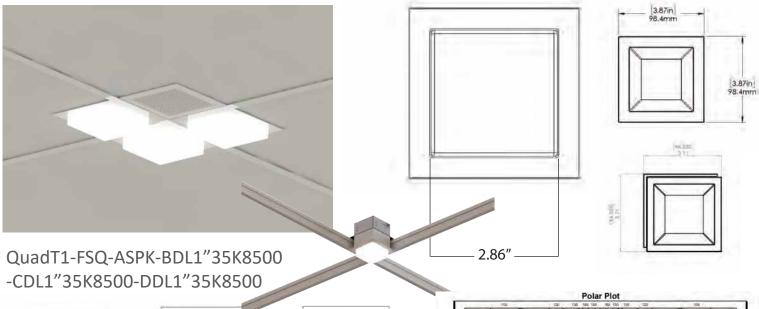
Our Partnerships with Igor and NuLEDs offer PoE Integration using low voltage cat 5, cat 6 cabling. Contact Factory For more Information.



Lens Options

Drop Lens

The QUAD offers a new and unique look with its drop lens option. Made from thermoformed acrylic optimum light diffusion material, the drop lens creates a dimensional look within the ceiling while providing functional lighting. Drop lens lengths available in .5", .75", and 1"



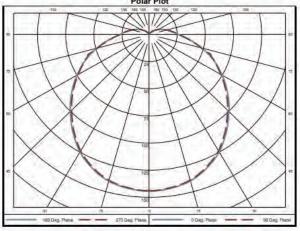
1″

Model Tested:

QUADT1-FSQ-DL1-500-B3-35K8-UNV-DM-W **SEE QUAD SOLO CUT SHEET

⊺.5″

Zone	Lumens	% of Luminaire
0-40	187	32.7%
0-60	341	59.8%
0-90	504	88.3%
90-180	67	11.7%



Zonal Lumen Summary

Zonar Zumen Gummary								
Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	3.44	0.6%	60-65	35.34	6.2%	120-125	3.64	0.6%
5-10	10.21	1.8%	65-70	32.89	5.8%	125-130	2.57	0.4%
10-15	16.72	2.9%	70-75	29.60	5.2%	130-135	1.72	0.3%
15-20	22.73	4.0%	75-80	25.49	4.5%	135-140	1.04	0.2%
20-25	28.00	4.9%	80-85	21.58	3.8%	140-145	0.53	0.1%
25-30	32.44	5.7%	85-90	17.96	3.1%	145-150	0.21	0.0%
30-35	35.72	6.3%	90-95	14.96	2.6%	150-155	0.07	0.0%
35-40	37.83	6.6%	95-100	12.37	2.2%	155-160	0.04	0.0%
40-45	38.92	6.8%	100-105	10.16	1.8%	160-165	0.04	0.0%
45-50	39.28	6.9%	105-110	8.22	1.4%	165-170	0.03	0.0%
50-55	38.73	6.8%	110-115	6.48	1.1%	170-175	0.02	0.0%
55-60	37.36	6.5%	115-120	4.95	0.9%	175-180	0.01	0.0%

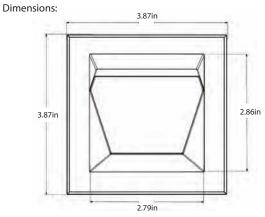


Lens Options

Wall Wash

General / Dimensions:

Material: Die Cast aluminum Casing, Powder Coat Finish Applications: Retail, Corridor, Restaurants, Commercial



Example Product Codes:



Page 1 QUAD Fixutre Product Code:
QUADT1-FSQ-ARB1W35K8500-BRB1W35K8500CWW1SW35K8500-DWW1SW35K8500-UNV-DM-W

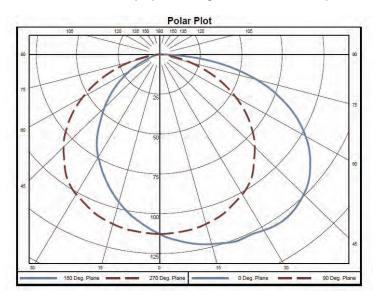


Page 1 QUAD Fixutre Product Code: QUADT1-FSQ-AX-BX-CWW1SW35K8500-DRB1W35K8500-500-B2-35K8-UNV-DM-W

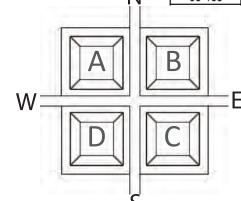


Description

The QUAD Tbar Wall Wash Quadrant allows for great illumination accross the verticle plane. The QUAD Wall Wash can be specified in a multi-directional form factor - see below for proper ordering instructions and examples.



Zone	Lumens	% of Luminaire
0-40	151	41.6%
0-60	277	76.6%
0-90	361	100.0%
90-180	0	0.0%



Specify Direction of the Wall Wash Quadrant In relation to the Fixture:

For Example, if Wall Wash quadrant is specified in Quadrant C, Specify if this will face North, East, South, or West

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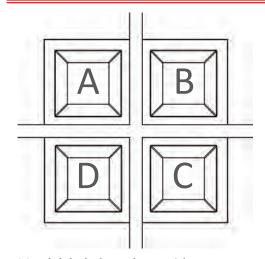
1/1/22

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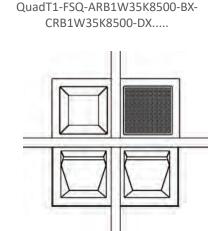


ARON

Sample Configurations & **Ordering Guide**



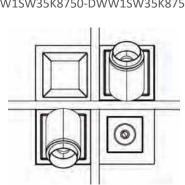
- Match labeled quadrant with corresponding column on ordering guide.
- Notate "RB1, RB2" to use quadrant with regressed lens.
- -Notate "SL" to use quadrant with Spotlight
- -Notate "DL" And Specify Drop Length to use quadrant with Drop Lens
- -Notate "WW1, WW2" to use quadrant with Wall Wash Lensing (Must Specify Direction of light using (N,E,S,W).
- -If chosing a lighting application quadrant, specify CCT & Lumens Per Quadrant
- -If chosing an IoT Application notate "SPK, SNR, SEC" And list any additional IoT device specification in quadrant
- Notate "X" to omit quadrant from fixture.



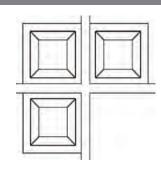
QuadT1-FSQ-ARB1W35K8500-BRB1W35K8500-

CRB1W35K8500-DRB1W35K8500.....

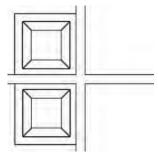
QuadT1-FSQ-ARB1W35K8500-BSPK-CWW1SW35K8750-DWW1SW35K8750.....



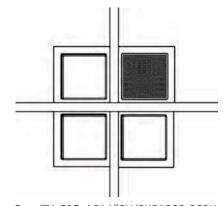
QuadT1-FSQ-ARB1W35K8500-BSLW35K91000-CSNR-DSLW35K8500.....



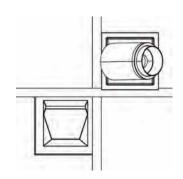
QuadT1-FSQ-ARB1W35K8500-BRB1W35K8500-CX-DRB1W35K8500.....



QuadT1-FSQ-ARB1W35K8500-BX-CX-DRB1W35K8500.....



QuadT1-FSQ-ADL1"3W5K81000-BSPK-CDL1"35K81000-DDL1"35K81000.....



QuadT1-FSQ-AX-BSL35K91000-CX-DWW1SW35K8750.....

Important Ordering Notes:

For Armstrong Custom Tile Program please see page 7 and coordinate with EC/GC

- Coordinate lighting fixture install with ceiling contractor

ARON Lighting reserves the right to make any

design changes for continuous improvement

which will not affect the overall appearance,

- Contact your local Armstrong representative for Made-To-Order ceiling tiles. (See page 6)

performance or pricing.

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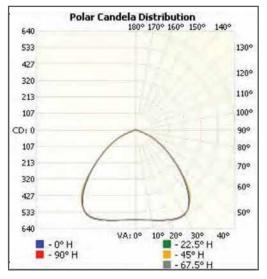
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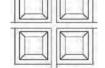
Model Tested: QuadT1-FSQ-ARB1W35K8400-BRB1W35K8400-CRB1W35K8400-DRB1W35K8400-UNV-DM-W



Configuration: 4 Quadrant

Lumens/Quadrant: 403

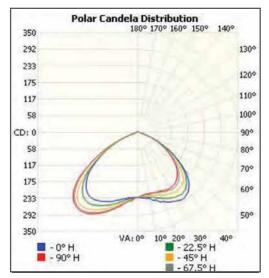
Total Lumens: 1613 Input Watts: 19.77 W Efficacy: 81.6 lm/W



Horizontal Angles					
Vertical Angle	0	22.5	45	67.5	90
0	582	582	582	582	582
5	585	585	585	584	585
10	594	593	593	592	593
15	606	606	604	604	606
20	620	620	618	619	621
25	633	632	629	631	633
30	631	629	628	629	632
35	598	598	602	600	599
40	526	530	543	532	528
45	433	437	451	441	437
50	337	340	340	344	340
55	250	256	249	259	253
60	180	189	177	187	182
65	122	124	121	127	122
70	59	67	70	69	60
75	21	22	27	22	21
80	11	11	11	11	11
85	3	3	3	3	3
90	0	0	0	0	0

	Zonal Lumens						
Zone	Lumens	% Luminaire					
0-10	56.1	3.5					
10-20	172.0	10.7					
20-30	291.1	18.0					
30-40	370.9	23.0					
40-50	338.0	20.9					
50-60	229.2	14.2					
60-70	122.3	7.6					
70-80	29.9	1.9					
80-90	4.4	0.3					

Model Tested: QuadT1-FSQ-ARB1W35K8400-BX-CX-DRB1W35K8400-UNV-DM-W



Configuration: 2 Quadrant Parallel

Lumens/Quadrant: 422

Total Lumens: 845 Input Watts: 9.76 W Efficacy: 86.6 lm/W



		Horizont	al Angles		
Vertical Angle	0	22.5	45	67.5	90
0	229	229	229	229	229
5	232	225	227	223	221
10	236	233	226	223	219
15	247	239	229	221	220
20	260	248	237	225	221
25	271	257	241	230	226
30	279	264	244	234	227
35	283	267	244	231	223
40	273	260	241	221	212
45	253	240	225	202	194
50	218	210	190	174	168
55	170	166	146	140	134
60	122	120	105	104	100
65	76	76	68	68	67
70	33	38	38	37	34
75	13	13	16	14	14
80	7	7	7	8	8
85	2	2	2	3	3
90	0	0	0	0	0

Zonal Lumens					
Zone	Lumens	% Luminaire			
0-10	22.3	2.6			
10-20	70.5	8.3			
20-30	125.3	14.8			
30-40	177.5	21			
40-50	197.1	23.3			
50-60	155.2	18.4			
60-70	77.3	9.1			
70-80	17.2	2			
80-90	2.9	0.3			

ARON™

Spotlight Ordering Guide

Beam Adjustable Ordering Code

PRODUCT ID		CCT		LUMENS		FINISH			
Spotlight - Field Adj	SP01	27K9 30K9 35K9 40K9	2700K - 90CRI 3000K - 90CRI 3500K - 90CRI 4000K - 90CRI	1200	lumens (BA)	W BLK SLV	White Black Silver		No Dim 0-10V Dimming

GX Series Ordering Code

PRODUCT ID	ССТ	LUMENS	FINISH	BEAM ANGLE	DIMMING
Spotlight -	27K9 2700K - 90CRI 30K9 3000K - 90CRI 35K9 3500K - 90CRI 40K9 4000K - 90CRI	900 lumens (GX10) 1150 lumens (GX15) 1800 lumens (GX25)	W White	20 20 Degrees 38 38 Degrees 60 Degrees	STD No Dim DM 0-10V Dimming

Include the Quantity and Product ID on Purchase Order Beneath
QUAD Product Ordered

** See Example Product Codes

For More Information or Further Ordering Questions,
Please Consult Factory

Description

The QUAD Tbar Spotlight offers a unique solution to grid mounted accent lighting. Easily mount the fixture with or without other downlight quadrants at the intersection of any TBar grid system. There are multiple configurations available, with the ability to have 4 spotlights in 1 fixture.

We have Two OEM partners for our spotlight solution. The first, by LPA, offers a field adjustable beam angle, 14-50°, with high CRI. Available in 2700K-4000K. Obtain the perfect aim illumination angle for any solution with full horizontal rotation and up to 90° verticle adjustability.

Our Secound, by Bruck Lighting, Offers various static beam angles, with different lumen outputs. The GX series offers variable accent light solutions while achieving an architecturally clean look in the QUAD Tbar Housing.

No more track needed - just drop the fixture on the TBar.

Beam Adjustable (BA) General / Dimensions:

Light Output: Up to 1200lm

Material: Die Cast aluminum Casing, Powder Coat Finish

Aiming: 350° Horizontal Coverage and 90° Vertical Rotation

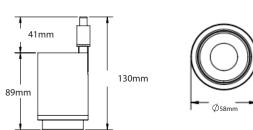
Field Adjustable Beam: 14-50°

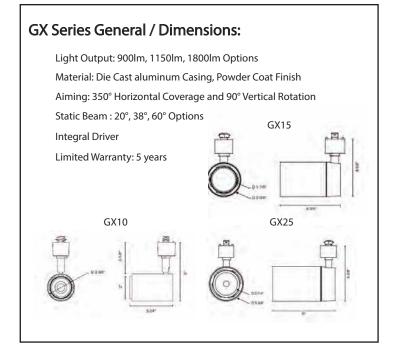
Integral Driver

Limited Warranty: 5 years

LED Type: CREE CMA 1200 lm Chip

Dimensions:





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1/1/22

Designed and Manufactured in the USA



ARON™

Spotlight Ordering Guide

Beam Adjustable (BA) Photometric and Performance Data Input Voltage: 220 Illuminance Cone Distribution Wattage: 15W Efficiency: 64.14 lm/W Current: 710mA 979.6,15051x 95.80 cm 244.9,376.31x 191.60 cm 108.8,167.21x Polar Candela Distribution 287.40 cm 61.22,94.061x 383.20 cm 479.00 cm 27.21,41.811x 574.80 cm 19.99,30.721x 670.60 cm 15.31,23.521x 766.40 cm Max = 1508.1 Min = 1.6711 Avg = 562.69 Avg/Max = 0.37 12.09,18.581x 862.20 cm 9.796,15.051x 958.00 cm Min/Max = 0.00

Example Product Codes:



Page 1 QUAD Fixutre Product Code:

QUADT1-FSQ-ASL-BX-CX-DX-500-B2-35K8-UNV-DM-W

Page 7 Spotlight Product Code:

(qty:1) SP01-40K90-1500-W-ND



Page 1 QUAD Fixutre Product Code:

QUADT1-FSQ-AR-BR-CSL-DSL-500-B2-35K8-UNV-DM-W

Page 7 Spotlight Product Code:

(qty:2) SP01-35K9-1500-W-ND

QUAD TBar

ARON

Speaker Ordering Guide

ARON PO ID
5B-01 RE-01 MIX-01



General / Dimensions:

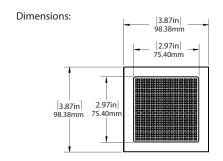
Broad Coverage Pattern: 160°

Material: Die Cast aluminum Casing, Powder Coat Finish

Driver: 60 mm (2.5 in) mid/high driver with butyl rubber surround

16-ohm allows for parallelling of multiple units on
a low-Z amplifier

Applications: Retail, Corridor, Restaurants, Commercial Grill: Many options in color and dimension for a reveal or flush aesthetic Sub: Designed to be paired with 40CS/T subwoofer-satellite system



Description

The QUAD Tbar Speaker offers a unique solution to grid mounted sound solutions. Easily mount the speaker with or without otherdownlight quadrants at the intersection of any TBar grid system. There are multiple configurations available, recommended to haveone speaker in one fixture..

No more need for cluttered ceilings at the center of the tile - just drop the fixture and speaker on the TBar. Only a single dropdown required for these various technologies!

Our speaker partner, JBL, is well renowned within the sound industry. This integrated partnership pairs great light quality with equally competitive sound quality in quite a small form factor.



Example Product Codes:



Page 1 QUAD Fixutre Product Code:QUADT1-FSQ-ASPK-BR-CR-DR-500-B2-35K8-UNV-DM-W



Page 1 QUAD Fixutre Product Code:QUADT1-FSQ-ASPK-BX-CX-DX-500-B2-35K8-UNV-DM-W

*Subwoofer, Receiver, and Mixer Available

ARON Lighting reserves the right to make any design changes for continuous improvement which will not affect the overall appearance, performance or pricing.

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Designed and Manufactured in the USA





Speaker Ordering Guide

Specifications and Performance Data

System:

Frequency Range (-10 dB): 140 Hz - 20 kHz

Frequency Response (± 3 dB): 180 Hz - 17 kHz lm/W

Power Capacity: 30W Continuous Program Power

15W Continuous Pink Noise

Nominal Sensitivity (2.83V/1m): 82 dB

Nominal Coverage Angle: 160° conical coverage

Directivity Factor (Q): 6.6 Directivity Index (DI): 6.8 dB

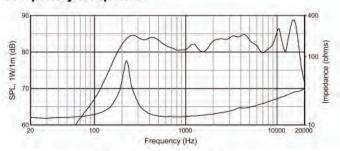
Rated Maximum SPL: 94 dB @ 1m (3.3 ft) average, 114 dB peak

Rated Impedance: 16 ohms

Transducer

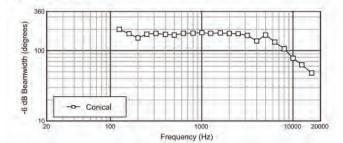
Driver: 60 mm (2.5 in) with polypropylene cone, butyl rubber surround, copper-clad coil, vented aluminum former

Frequency Response:

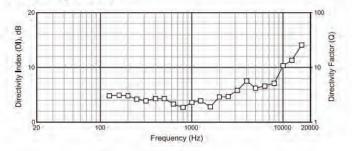


Half-space (2pi, mounted in ceiling)

Beamwidth:



Directivity Index:



Off-Axis Frequency Response:

