



## Volta

### Tunable White - 4.5" Shallow Regressed Downlight

R4RD1T | R4RD1L | R4SD1T | R4SD1L

Fixture Type: \_\_\_\_\_  
 Project: \_\_\_\_\_  
 Catalog#: \_\_\_\_\_  
 Location: \_\_\_\_\_

### ORDERING INFORMATION

CONFIGURATION TABLE				
Model & Power	Beam	Color Temperature & CRI	Reflector Finish	Trim Finish
R4RD1T	N: Narrow Flood - 25°	TWA - 1800K-4000K	BK - BLACK	WT - WHITE
R4SD1T	F: Flood - 45°	TWB - 2700K-6500K	CB - COPPER	
R4RD1L	W: Wide Flood - 60°		HZ - HAZE	
R4SD1L			WT - WHITE	

**R4RD1T-**\_\_\_\_-\_\_\_\_ Example: R4RD1T-NTWA-WT

HOUSINGS (Required)					
	Model	Trim	Power	Rating	Driver
New Construction Airtight	<b>R4RN</b> (Round) <b>R4SN</b> (Square)	<b>T</b> <i>Trim</i> <b>L</b> <i>Trimless</i>	<b>15</b> 20W	<i>IC</i>	<b>T-X</b> <i>DMX512-A</i> <b>T-Z</b> <i>2CH 0-10V</i>
			<b>25</b> 29W	<i>IC</i>	
			<b>36</b> 44W	<i>Non-IC</i>	
New Construction Airtight Chicago Plenum	<b>R4RC</b> (Round) <b>R4SC</b> (Square)	<b>T</b> <i>Trim</i> <b>L</b> <i>Trimless</i>	<b>15</b> 20W	<i>IC</i>	<b>T-X</b> <i>DMX512-A</i> <b>T-Z</b> <i>2CH 0-10V</i>
			<b>25</b> 29W	<i>IC</i>	
			<b>36</b> 44W	<i>Non-IC</i>	
Remodel Round or Square	<b>R4BR</b>	<b>T</b> <i>Trim</i>	<b>15</b> 20W	<i>Non-IC</i>	<b>T-X</b> <i>DMX512-A</i> <b>T-Z</b> <i>2CH 0-10V</i>
			<b>25</b> 29W	<i>Non-IC</i>	
			<b>36</b> 44W	<i>Non-IC</i>	
Remodel	<b>R4RR</b> (Round) <b>R4SR</b> (Square)	<b>L</b> <i>Trimless</i>	<b>15</b> 20W	<i>Non-IC</i>	<b>T-X</b> <i>DMX512-A</i> <b>T-Z</b> <i>2CH 0-10V</i>
			<b>25</b> 29W	<i>Non-IC</i>	
			<b>36</b> 44W	<i>Non-IC</i>	

ACCESSORIES			
LENS-73-HLD	<i>Accessory Holder</i>	LENS-73-GRN	<i>Green Lens</i>
LENS-73-HCM	<i>Honeycomb Louver</i>	LENS-73-RED	<i>Red Lens</i>
LENS-73-CRL	<i>Cross Louver</i>	LENS-73-FR	<i>Frosted Lens</i>
LENS-73-SNOOT	<i>Snoot</i>	LENS-73-SPR	<i>Spread Lens</i>
LENS-73-AMB	<i>Amber Lens</i>	LENS-73-BEL	<i>Beam Elongating Lens</i>
LENS-73-BLU	<i>Blue Lens</i>		

FIELD REPLACEABLE DRIVER (New Construction)
D-R4N-15T-X <i>DMX512-A Driver for 20W</i>
D-R4N-25T-X <i>DMX512-A Driver for 29W</i>
D-R4N-36T-X <i>DMX512-A Driver for 44W</i>
D-R4N-15T-Z <i>2CH 0-10V Driver for 20W</i>
D-R4N-25T-Z <i>2CH 0-10V Driver for 29W</i>
D-R4N-36T-Z <i>2CH 0-10V Driver for 44W</i>

INTERCHANGEABLE REFLECTORS	
REF-R4-N	<i>Narrow Flood Beam</i>
REF-R4-F	<i>Flood Beam</i>
REF-R4-W	<i>Wide Beam</i>

### ORDERING NOTES

- The "White" trim finish is only available with the reflector finishes "Black" and "Haze".
- Trimless fixtures cannot be ordered with a trim finish.
- The "Narrow Flood - 25°", "Flood - 45°", "Wide Flood - 60°" beam angles are available in 20W, 29W, and 44W.

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WAC Group Headquarters  
 44 Harbor Park Drive  
 Port Washington, NY 11050

WAC Lighting  
 Phone (800) 526.2588  
 Fax (800) 526.2585

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## Volta

### Tunable White - 4.5" Shallow Regressed Downlight

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Fixture Type: \_\_\_\_\_

Project: \_\_\_\_\_

Catalog#: \_\_\_\_\_

Location: \_\_\_\_\_

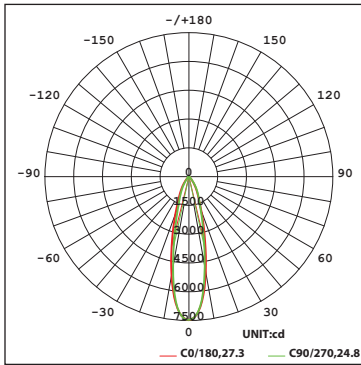
#### PERFORMANCE DATA

#### Polar Candela Distribution Charts

Samples shown with a 44W fixture set to 4000K and 98 CRI.

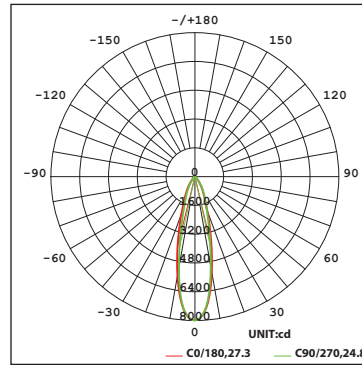
#### ROUND

##### Narrow Flood Beam: 25° Beam

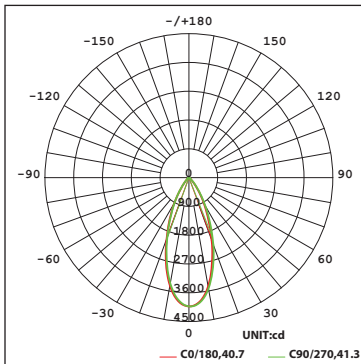


#### SQUARE

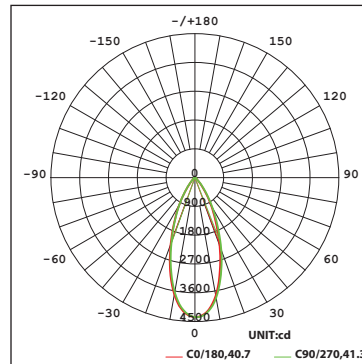
##### Narrow Flood Beam: 25° Beam



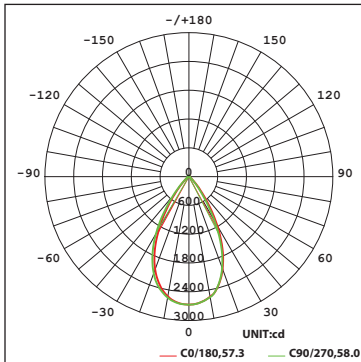
##### Flood Beam: 45° Beam



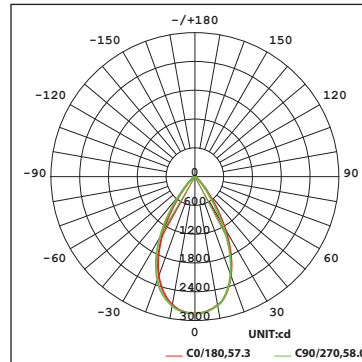
##### Flood Beam: 45° Beam



##### Wide Flood Beam: 60° Beam



##### Wide Flood Beam: 60° Beam



## Volta

### Tunable White - 4.5" Shallow Regressed Downlight

R4RD1T | R4RD1L | R4SD1T | R4SD1L

Fixture Type: \_\_\_\_\_

Project: \_\_\_\_\_

Catalog#: \_\_\_\_\_

Location: \_\_\_\_\_

### PERFORMANCE DATA

#### Unified Glare Rating (UGR) Table

UGR values shown are calculated for a Round Trim fixture with a 44W Narrow Flood Beam (25°) optic at 4000K and 98 CRI. General performance of other beam angles shown below.

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	Viewed crosswise					Viewed endwise					
<b>x = 2H y = 2H</b>	9.6	10.5	9.9	10.7	10.9	8.4	9.2	8.7	9.4	9.6	
3H	9.6	10.4	9.9	10.6	10.9	8.4	9.2	8.7	9.4	9.6	
4H	9.6	10.3	9.9	10.5	10.8	8.3	9.1	8.6	9.3	9.6	
6H	9.5	10.2	9.8	10.4	10.7	8.3	8.9	8.6	9.2	9.5	
8H	9.4	10.1	9.8	10.4	10.7	8.2	8.9	8.6	9.2	9.5	
12H	9.4	10.0	9.8	10.4	10.7	8.2	8.8	8.6	9.1	9.5	
<b>4H</b>	2H	9.5	10.2	9.8	10.5	10.8	8.3	9.1	8.6	9.3	9.6
3H	9.5	10.2	9.9	10.5	10.8	8.4	9.0	8.7	9.3	9.6	
4H	9.5	10.0	9.9	10.4	10.7	8.3	8.9	8.7	9.2	9.6	
6H	9.4	9.9	9.8	10.3	10.7	8.2	8.7	8.6	9.1	9.5	
8H	9.3	9.8	9.8	10.2	10.6	8.2	8.7	8.6	9.1	9.5	
12H	9.3	9.7	9.8	10.2	10.6	8.2	8.6	8.6	9.0	9.5	
<b>8H</b>	4H	9.3	9.8	9.8	10.2	10.6	8.2	8.6	8.6	9.0	9.5
6H	9.2	9.6	9.7	10.1	10.5	8.1	8.5	8.6	8.9	9.4	
8H	9.2	9.5	9.7	10.0	10.5	8.1	8.4	8.6	8.9	9.4	
12H	9.2	9.5	9.7	10.0	10.5	8.1	8.3	8.6	8.8	9.4	
<b>12H</b>	4H	9.3	9.7	9.7	10.1	10.6	8.1	8.5	8.6	9.0	9.4
6H	9.2	9.5	9.7	10.0	10.5	8.0	8.4	8.5	8.8	9.3	
8H	9.1	9.4	9.7	9.9	10.5	8.0	8.3	8.5	8.8	9.3	

Round Fixture	Angle	UGR Range
Narrow Flood	25°	≤11
Flood	45°	≤11
Wide Flood	60°	≤14

Square Fixture	Angle	UGR Range
Narrow Flood	25°	≤11
Flood	45°	≤11
Wide Flood	60°	≤14

#### Lumens and CBCP Multiplier Table

Use the below table to determine lumens and CBCP values for the combinations of power, color temperature, and CRI values.

Lumens & CBCP Multiplier		Color Temperature					
TWA (1800K - 4000K)	Housing Power Level	1800K	2200K	2700K	3000K	3500K	4000K
	36 (44W)	0.68	0.82	0.94	1.00	1.07	1.11
	25 (29W)	0.48	0.57	0.66	0.70	0.75	0.78
	15 (20W)	0.33	0.39	0.45	0.48	0.51	0.53
TWB (2700K - 6500K)	Housing Power Level	2700K	3000K	3500K	4000K	5000K	6500K
	36 (44W)	0.96	1.00	1.06	1.09	1.12	1.11
	25 (29W)	0.67	0.70	0.74	0.76	0.78	0.78
	15 (20W)	0.46	0.48	0.51	0.52	0.54	0.53

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WAC Group Headquarters  
44 Harbor Park Drive  
Port Washington, NY 11050

WAC Lighting  
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R4RD1T | R4RD1L | R4SD1T | R4SD1L

Fixture Type: \_\_\_\_\_

Project: \_\_\_\_\_

Catalog#: \_\_\_\_\_

Location: \_\_\_\_\_

### PERFORMANCE DATA

#### NATURAL TUNABLE WHITE CCT TUNING:

The CCT of the Volta Tunable White fixture may be adjusted.

Using the DMX byte values in the adjacent table mapped to CH1 and CH2 of the desired output, the Volta Tunable White fixture may be tuned to increments of 100K (Kelvin) from 1800K to 4000K for TWA and 2700K to 6500K for TWB, at full intensity.

**Note:** Through compatible RDM tool, fixture channels can be reassigned to desired consecutive channels. Factory default is DMX channel 1 and 2.

#### VOLTA 4.5" TUNABLE WHITE DMX BYTE VALUE VS CCT

##### TWA DMX BYTE VALUES AT FULL INTENSITY

CCT (K)	CH 1: INTENSITY	CH 2: CCT
4000	255	255
3900	255	250
3800	255	240
3700	255	230
3600	255	219
3500	255	207
3400	255	196
3300	255	186
3200	255	176
3100	255	163
3000	255	153
2900	255	140
2800	255	130
2700	255	117
2600	255	105
2500	255	92
2400	255	79
2300	255	66
2200	255	51
2100	255	38
2000	255	23
1900	255	10
1800	255	0

##### TWB DMX BYTE VALUES AT FULL INTENSITY

CCT (K)	CH 1: INTENSITY	CH 2: CCT
6500	255	252
6400	255	249
6300	255	245
6200	255	243
6100	255	241
6000	255	237
5900	255	234
5800	255	230
5700	255	226
5600	255	222
5500	255	218
5400	255	214
5300	255	210
5200	255	205
5100	255	200
5000	255	195
4900	255	190
4800	255	185
4700	255	180
4600	255	175
4500	255	170
4400	255	164
4300	255	158
4200	255	151
4100	255	143
4000	255	134
3900	255	125
3800	255	119
3700	255	110
3600	255	101
3500	255	92
3400	255	83
3300	255	74
3200	255	64
3100	255	53
3000	255	41
2900	255	29
2800	255	15
2700	255	0