

DATE

PROJECT

TYPE

# R4 SERIES | 4 Inch Downlights with BIOS SkyBlue™ Technology

## PHOTOMETRICS

### R4\*535KB12DBS / C4322M-CLR

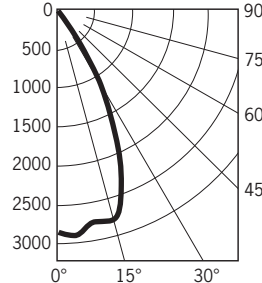
Fixture Delivered Lumens: 2240.8  
 Total Watts@120V: 38.5  
 Lumens Per Watt: 58.2  
 Center Beam Candle Power: 2841  
 Beam Distribution: 54.7°  
 Spacing Criterion: 0.84  
 Color Rendering Index (CRI)<sup>1</sup>: 84.8  
 Color Temperature (CCT)<sup>2</sup>: 3241K  
 Peak Sensitivity: 490nm  
 R9 Value: 93.2

Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G21092801  
 LM-79 Test No. S21093002

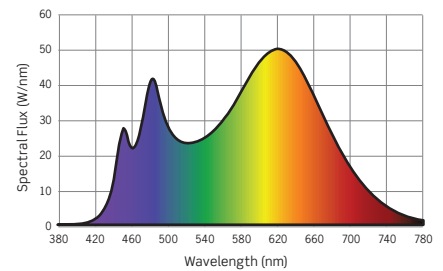
#### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	78.9	6.2
8 FT	44.4	8.3
10 FT	28.4	10.3
12 FT	19.7	12.4
14 FT	14.5	14.5
16 FT	11.1	16.5

#### Candela Curve



#### Spectral Power Distribution Chart<sup>4</sup>



### R4\*535KB12DBS / C4322W-CLR

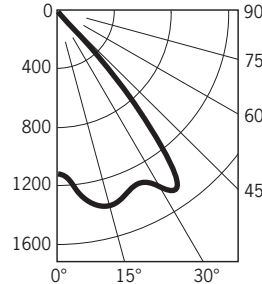
Fixture Delivered Lumens: 2259.6  
 Total Watts@120V: 38.5  
 Lumens Per Watt: 58.7  
 Center Beam Candle Power: 1118  
 Beam Distribution: 82.0°  
 Spacing Criterion: 1.25  
 Color Rendering Index (CRI)<sup>1</sup>: 84.8  
 Color Temperature (CCT)<sup>2</sup>: 3241K  
 Peak Sensitivity: 490nm  
 R9 Value: 93.2

Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G21092802  
 LM-79 Test No. S21093002

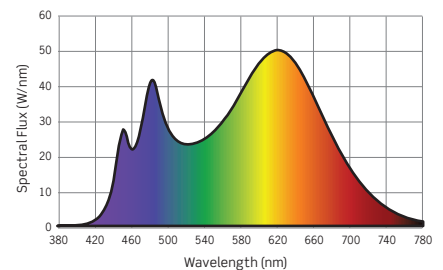
#### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	31.1	10.4
8 FT	17.5	13.9
10 FT	11.2	17.4
12 FT	7.8	20.9
14 FT	5.7	24.3
16 FT	4.4	27.8

#### Candela Curve



#### Spectral Power Distribution Chart<sup>4</sup>



### R4\*535KB12DBS / C4322-PL

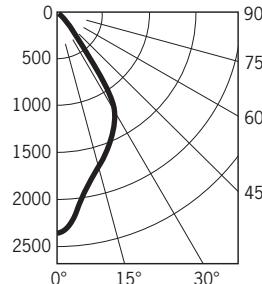
Fixture Delivered Lumens: 2006.3  
 Total Watts@120V: 38.5  
 Lumens Per Watt: 52.1  
 Center Beam Candle Power: 2371  
 Beam Distribution: 62.1°  
 Spacing Criterion: 0.92  
 Color Rendering Index (CRI)<sup>1</sup>: 84.8  
 Color Temperature (CCT)<sup>2</sup>: 3241K  
 Peak Sensitivity: 490nm  
 R9 Value: 93.2

Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G21092803  
 LM-79 Test No. S21093002

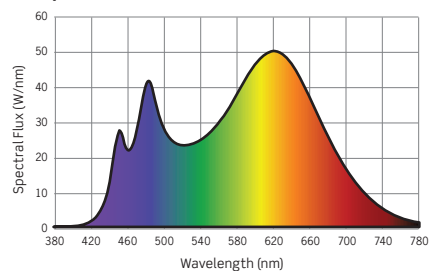
#### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	65.8	7.2
8 FT	37.0	9.6
10 FT	23.7	12.0
12 FT	16.5	14.4
14 FT	12.1	16.8
16 FT	9.3	19.2

#### Candela Curve



#### Spectral Power Distribution Chart<sup>4</sup>



1. Accuracy of Rendering Colors 2. Color Appearance of Light Source 3. Dependent on Surrounding Temperatures 4. Colors Present within the Light Source

## PHOTOMETRIC MULTIPLICATION FACTORS

Lumen output values fluctuate based on Color Temperature, Luminaire Wattage/Output and Trim Selection. To estimate lumen output of these various options, multiply 3500K results by the following:

CCT MULTIPLIERS		OUTPUT MULTIPLIERS				TRIM MULTIPLIERS				
CCT	STD CRI	SERIES 1	SERIES 2	SERIES 3	SERIES 4	C4322W-CLR	C4322-PL	C4322-WHT	C4322DF-SL	C4323-CLR
3000K	0.95	0.31	0.43	0.61	0.81	1.01	0.90	0.92	0.67	0.51
3500K	N/A									
4000K	1.05									

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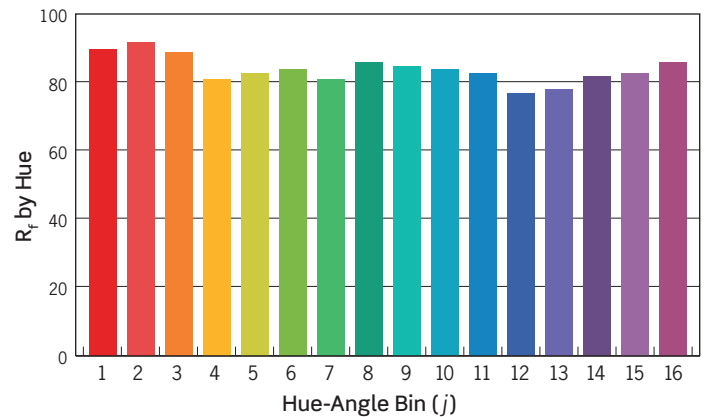
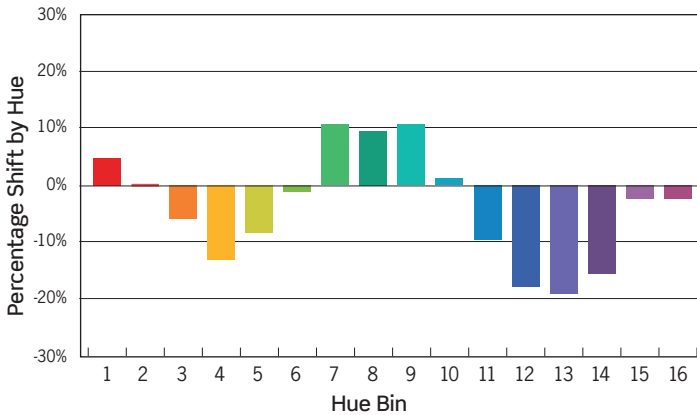
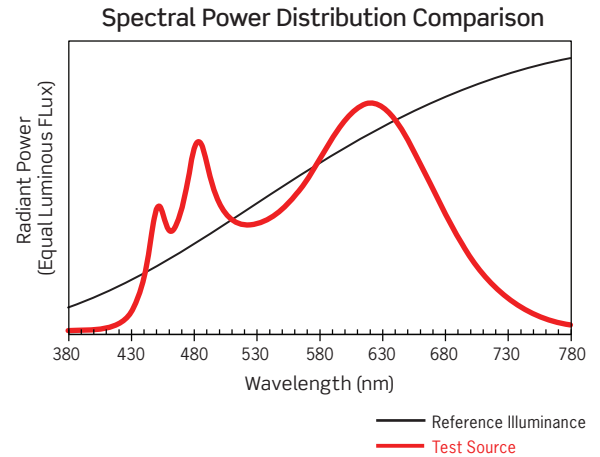
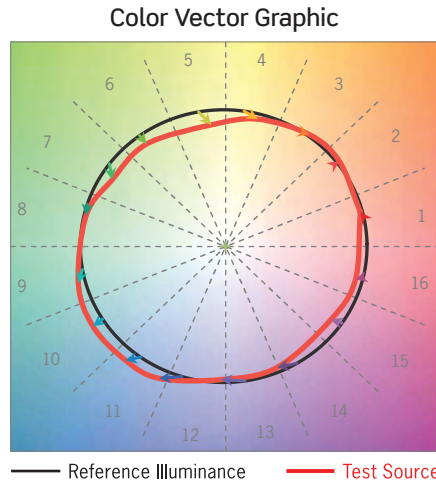
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## TM-30 DATA

### R4\*535KB12DBS / C4322M-CLR

ANSI/IES TM-30-18 Color Rendition Report Test No. S21093002

$R_f$	86
$R_g$	96
CCT(K)	3241K
$D_{uv}$	-0.0098
$u'$	0.2468
$v'$	0.5032



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	4%	0%	-5%	-11%	-7%	-1%	9%	8%	9%	1%	-8%	-15%	-16%	-13%	-2%	-2%
$R_f$ VALUE	91	93	90	82	84	85	82	87	86	85	84	78	79	83	84	87

Colors are for visual orientation purposes only