

DATE

PROJECT

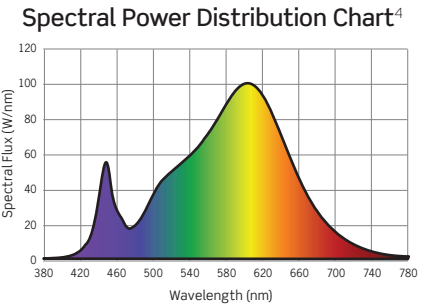
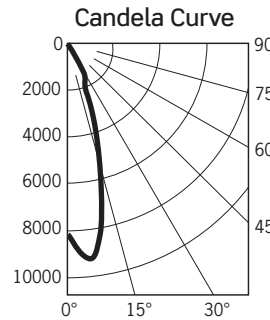
TYPE

# R4 SERIES | 4-Inch Round Downlight Photometrics

## R4NC630K12D / C4322N-CLR

Fixture Delivered Lumens: 4105.5  
 Total Watts@120V: 45.2  
 Lumens Per Watt: 90.8  
 Center Beam Candle Power: 8153  
 Beam Distribution: 35.5°  
 Spacing Criterion: 0.60  
 Color Rendering Index (CRI)<sup>1</sup>: 83.3  
 Color Temperature (CCT)<sup>2</sup>: 3079K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G21070604  
 LM-79 Test No. S21072001

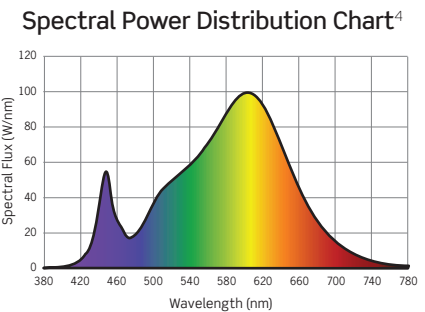
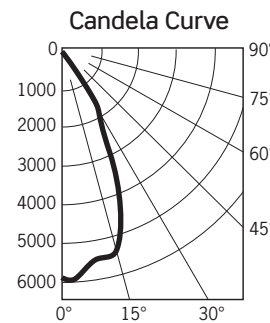
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	226.5	3.8
8 FT	127.4	5.1
10 FT	81.5	6.4
12 FT	56.6	7.7
14 FT	41.6	9.0
16 FT	31.8	10.2



## R4NC630K12D / C4322M-CLR

Fixture Delivered Lumens: 4176.6  
 Total Watts@120V: 45.2  
 Lumens Per Watt: 92.4  
 Center Beam Candle Power: 5860  
 Beam Distribution: 51.2°  
 Spacing Criterion: 0.79  
 Color Rendering Index (CRI)<sup>1</sup>: 83.3  
 Color Temperature (CCT)<sup>2</sup>: 3079K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G21070605  
 LM-79 Test No. S21072001

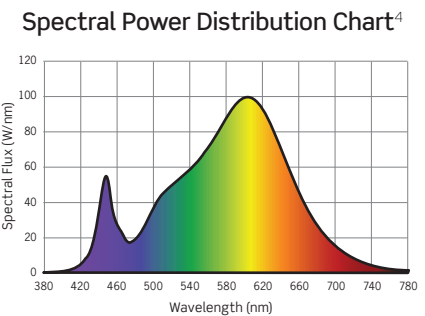
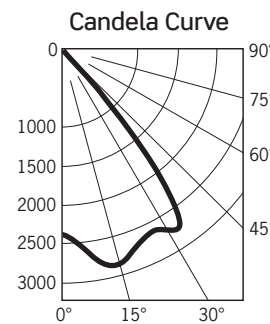
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	162.8	5.8
8 FT	91.6	7.7
10 FT	58.6	9.6
12 FT	40.7	11.5
14 FT	29.9	13.4
16 FT	22.9	15.3



## R4NC630K12D / C4322W-CLR

Fixture Delivered Lumens: 4220.8  
 Total Watts@120V: 45.2  
 Lumens Per Watt: 93.4  
 Center Beam Candle Power: 2402  
 Beam Distribution: 80.0°  
 Spacing Criterion: 1.2  
 Color Rendering Index (CRI)<sup>1</sup>: 83.3  
 Color Temperature (CCT)<sup>2</sup>: 3079K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G21070602  
 LM-79 Test No. S21072001

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	66.7	10.1
8 FT	37.5	13.4
10 FT	24.0	16.8
12 FT	16.7	20.2
14 FT	12.3	23.5
16 FT	9.4	26.9



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 3000K results by the following:

CCT MULTIPLIERS			OUTPUT MULTIPLIERS					TRIM MULTIPLIERS	
CCT	STD CRI	HIGH CRI	12W/SERIES 1	16W/SERIES 2	21W/SERIES 3	30W/SERIES 4	38W/SERIES 5	C4322-PL	C4322-WHT
2700K	0.94	0.70	0.28	0.39	0.54	0.72	0.89	0.91	0.93
3000K	N/A	0.75							
3500K	1.0	0.81							
4000K	1.0	0.87							

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# R4 SERIES | 4-Inch Round Downlight Photometrics

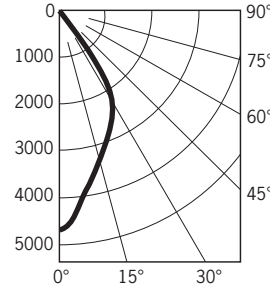
## R4NC630K12D / C4322-PL

Fixture Delivered Lumens: 3781.4  
 Total Watts@120V: 45.2  
 Lumens Per Watt: 83.7  
 Center Beam Candle Power: 4724  
 Beam Distribution: 59.0°  
 Spacing Criterion: 0.91  
 Color Rendering Index (CRI)<sup>1</sup>: 83.3  
 Color Temperature (CCT)<sup>2</sup>: 3079K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G21070601  
 LM-79 Test No. S21072001

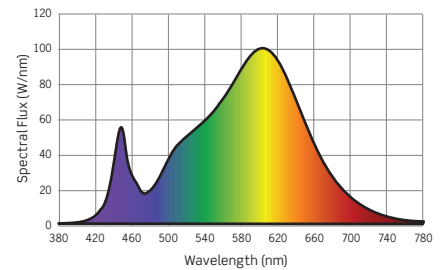
### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	131.2	6.8
8 FT	73.8	9.0
10 FT	47.2	11.3
12 FT	32.8	13.5
14 FT	24.1	15.8
16 FT	18.5	18.1

### Candela Curve



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



## 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 3000K results by the following:

CCT MULTIPLIERS			OUTPUT MULTIPLIERS					TRIM MULTIPLIERS	
CCT	STD CRI	HIGH CRI	12W/SERIES 1	16W/SERIES 2	21W/SERIES 3	30W/SERIES 4	38W/SERIES 5	C4322-PL	C4322-WHT
2700K	0.94	0.70	0.28	0.39	0.54	0.72	0.89	0.91	0.93
3000K	N/A	0.75							
3500K	1.0	0.81							
4000K	1.0	0.87							

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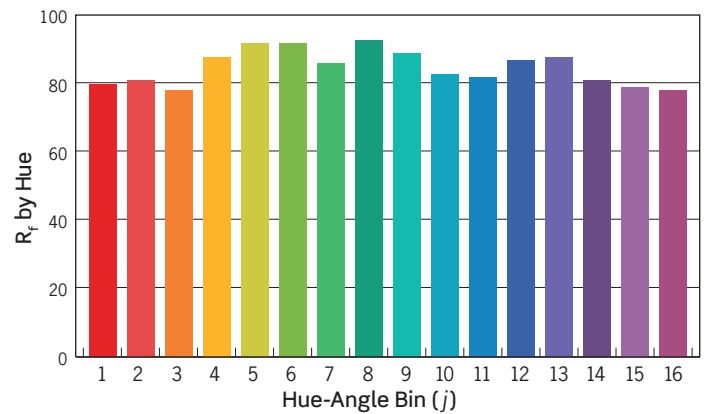
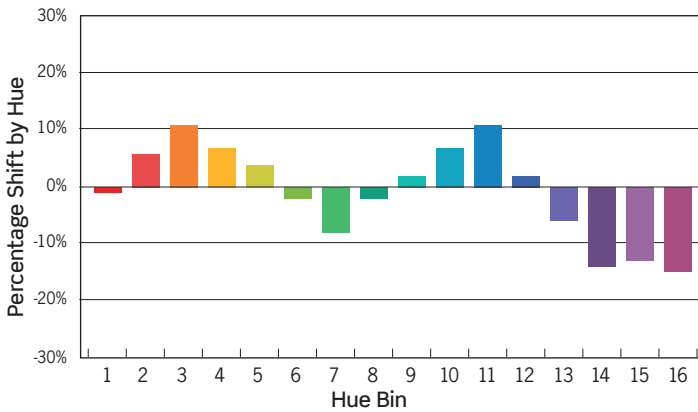
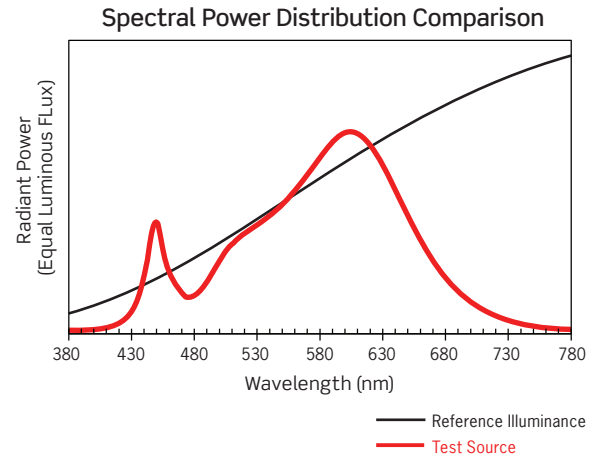
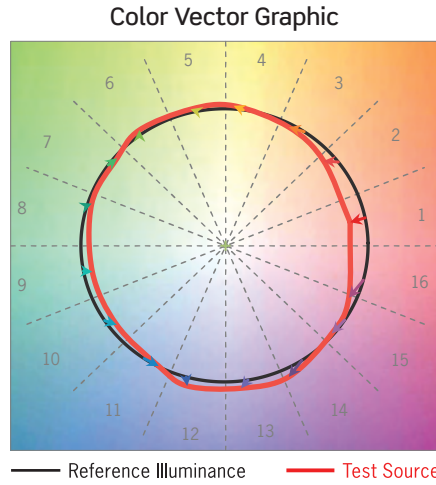
# R4 SERIES | 4-Inch Round Downlight Photometrics

## TM-30 DATA: R4NC630K12D / C4322M-CLR

ANSI/IES TM-30-18 Color Rendition Report Test No. S21072001

Colors are for visual orientation purposes only

$R_f$	86
$R_g$	97
CCT(K)	3079K
$D_{uv}$	0.0016
$u^l$	0.2473
$v^l$	0.5220



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	-1%	6%	11%	7%	4%	-2%	-8%	-2%	2%	7%	11%	2%	-6%	-14%	-13%	-15%
R <sub>f</sub> VALUE	81	82	79	89	93	93	87	94	90	84	83	88	89	82	80	79