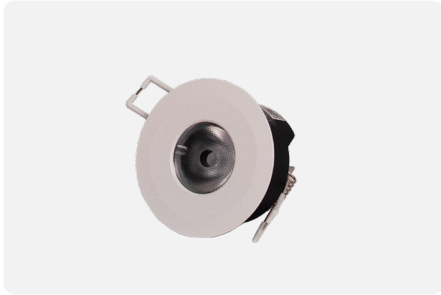


Date:

Comments:

Project:



Gantom R4 with white trim



Gantom R4 with silver trim



Gantom R4 with black trim and hex louver

Product Model

- GRC211 - Gantom R4 Recessed Spot - DW - RJ45
- GRC212 - Gantom R4 Recessed Spot - RGBW - RJ45
- GR211 - Gantom R4 Recessed Spot - DW - Pro Cable
- GR212 - Gantom R4 Recessed Spot - RGBW - Pro Cable

Features

- Low-profile (60mm / 2.4" clearance)
- 4.8W RGBW or dynamic white LED
- Constant output algorithm for all colors
- Spring-clip installation
- Black, white, and silver trims are included
- Insulated Contact (IC) rated
- Class 2, low-voltage 12-24VDC input
- DMX dimming
- 35mm hex louver accessory included

Description

The R4 is a low-profile DMX controllable downlight with the same optics as the Gantom DMX V2 Spotlight. The R4 is available in RGBW or dynamic white output. The fixture includes three interchangeable trim options: black, white, and silver.

Applications

- Themed entertainment
- Dark rides
- Restaurants
- Museums
- Retail
- Theater and stage
- Trade shows

Optional Components

Accessories

RP33

Diffuser Pack for Gantom R4 and Gantom DMX V2

Distributor:



Phone: 407-857-8770

Fax: 407-857-8771

Email: sales@techni-lux.com

www.techni-lux.com

Technical Specifications

Physical

Material	Black Anodized Aluminum
IP rating	IP60 - Indoor Only
Weight	195 grams (6.9 oz)

Electrical

Voltage	12-24V DC
Power	0.356a ~ 0.195a @ 4.8W max
Dimming	DMX
Connector	GRC211 / GRC212 - RJ45 GR211 / GR212 - Pro Cable

Thermal

Ambient operating temperature	0-50° C (32-122 °F)
Cooling method	Passive

Certifications

USA / Canada	UL
Europe	CE, RoHS

Warranty

Fixture	2 Years
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DMX

Channel footprint	DW: 2 RGBW: 4
Lowest dimming	0.05%

DMX Mapping

DW: CH. 1	CW Intensity (0%-100%)
DW: CH. 2	WW Intensity (0%-100%)
RGBW: CH.1	Red Intensity (0%-100%)
RGBW: CH.2	Green Intensity (0%-100%)
RGBW: CH.3	Blue Intensity (0%-100%)
RGBW: CH.4	White Intensity (0%-100%)

LED color

Dynamic white	2650K (95 CRI) / 6200K (93 CRI)
RGBW	Red 625nm, Green 530nm, Blue 460nm, White 6500K

Source

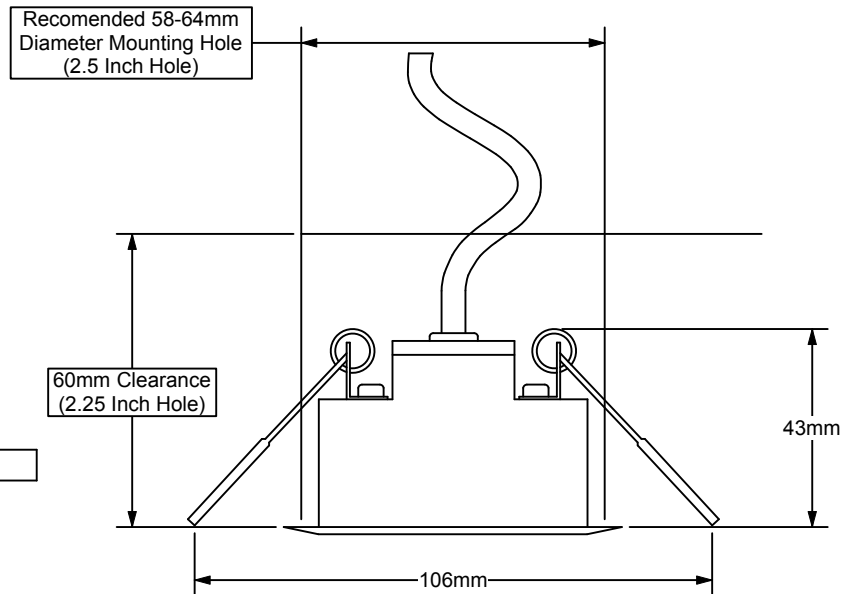
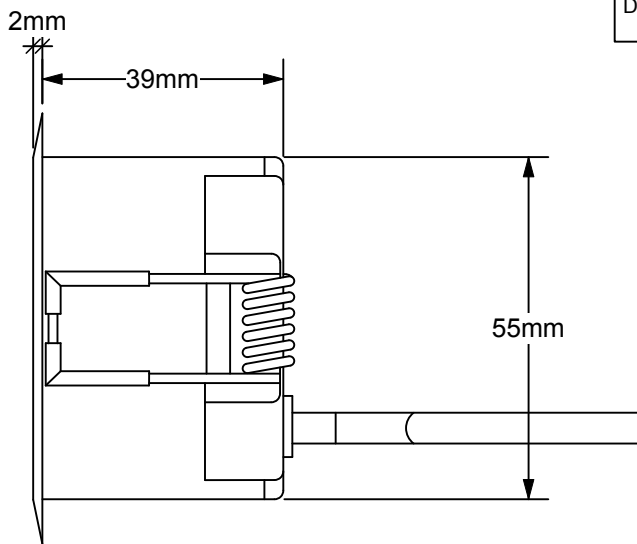
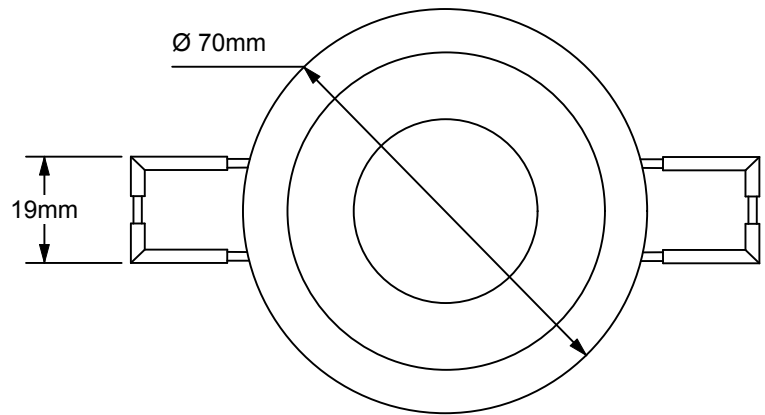
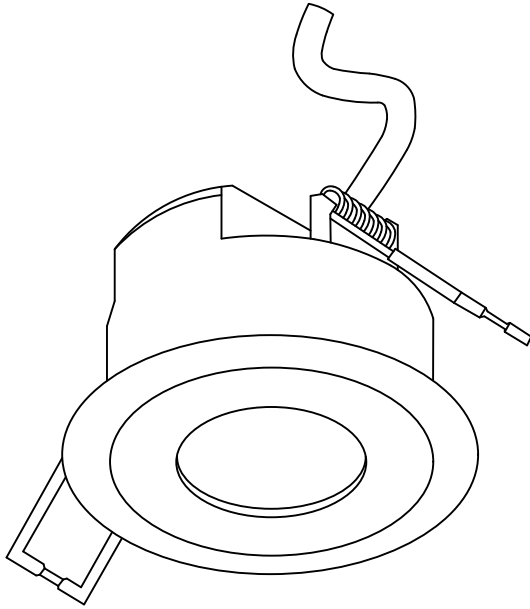
LED Model	Cree MC-E (RGBW), Cree XB-D (Dynamic White)
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Photometrics at Full Power

	Beam/Field Angle	1m Illuminance (3.3ft)	2m Illuminance (6.6ft)	3m Illuminance (9.8ft)
DW Beam / Field Angle Bare optics	23° / 44°	1400 lx (130 fc)	360 lx (33 fc)	160 lx (15 fc)
DW Beam / Field Angle Narrow diffuser - 1 Notch - (C-HE10)	24° / 46°	900 lx (84 fc)	263 lx (24 fc)	115 lx (11 fc)
DW Beam / Field Angle Medium diffuser - 2 Notch - (C-HE30)	34° / 63°	460 lx (43 fc)	125 lx (12 fc)	55 lx (5 fc)
DW Beam / Field Angle Wide diffuser - 3 Notch - (C-HE80)	55° / 99°	114 lx (11 fc)	35 lx (3 fc)	16 lx (1 fc)
DW Beam / Field Angle Asymmetric diffuser - U Notch	30° / 50° short axis 46° / 77° long axis	315 lx (29 fc)	83 lx (8 fc)	36 lx (3 fc)
RGBW Beam / Field Angle Bare optics	16° / 32°	940 lx (87 fc)	260 lx (24 fc)	112 lx (10 fc)
RGBW Beam / Field Angle Narrow diffuser - 1 Notch - (C-HE10)	18° / 36°	771 lx (72 fc)	218 lx (20 fc)	98 lx (9 fc)
RGBW Beam / Field Angle Medium diffuser - 2 Notch - (C-HE30)	30° / 58°	330 lx (31 fc)	99 lx (9 fc)	44 lx (4 fc)
RGBW Beam / Field Angle Wide diffuser - 3 Notch - (C-HE80)	55° / 98°	100 lx (9 fc)	28 lx (3 fc)	13 lx (1 fc)
RGBW Beam / Field Angle Asymmetric diffuser - U Notch	16° / 46° short axis 39° / 67° long axis	230 lx (21 fc)	66 lx (6 fc)	30 lx (3 fc)

Gantom R4

4W DMX Controlled Downlight



Gantom takes light source color rendition very seriously and strives to be a leading manufacturer of LED lighting fixtures that presents the subject in the best light, literally. Using the TM-30-20 documentation and tools provided by the Illuminating Engineering Society (IES), we have generated the following report to help with your specification needs as it pertains to the Gantom DMX V2 Dynamic White and Gantom R4 Dynamic White fixtures. These fixtures feature a warm white chip at 2650K and a cool white chip at 6200K. Both chips exhibit high preference and fidelity priority levels per Table E-2 of the ANSI/IES TM-30-20 standard.

TM-30-20

Specification Criteria for
Gantom R4 Dynamic White

CCT	Preference Fidelity Priority	R_f	R_g	$R_{cs,hl}$	$R_{f,hl}$	R_a (CRI)
2650K	P2/F2	91	97	-2%	93	95
4200K	P1/F2	91	100	+1%	93	92
6200K	P1/F2	90	99	+1%	92	93

Table E-2. Recommended Specification Criteria.

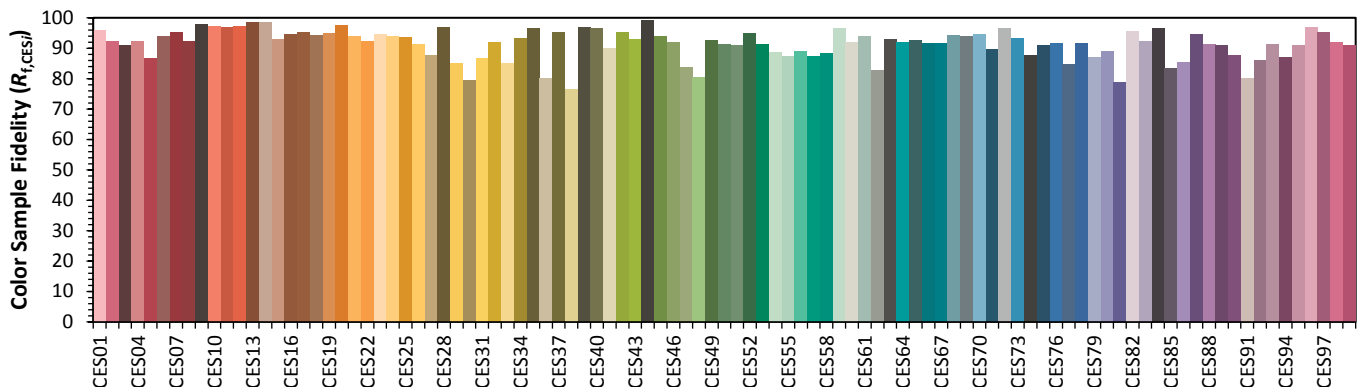
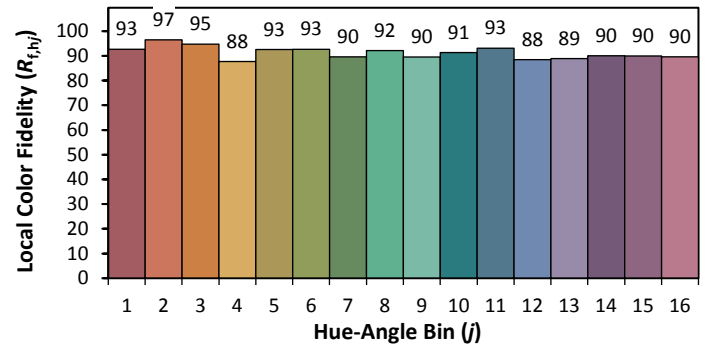
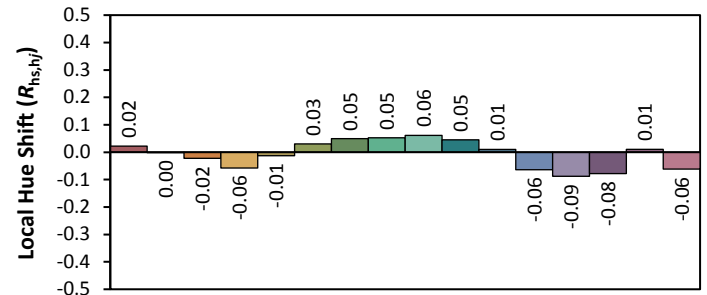
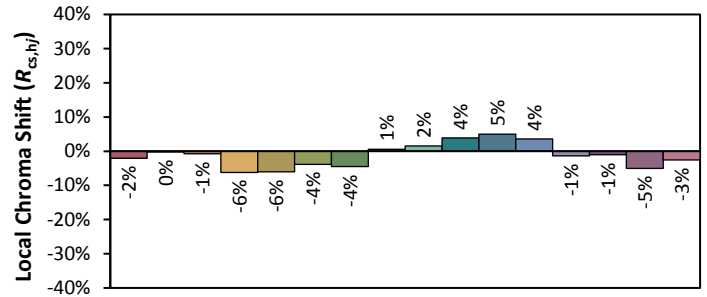
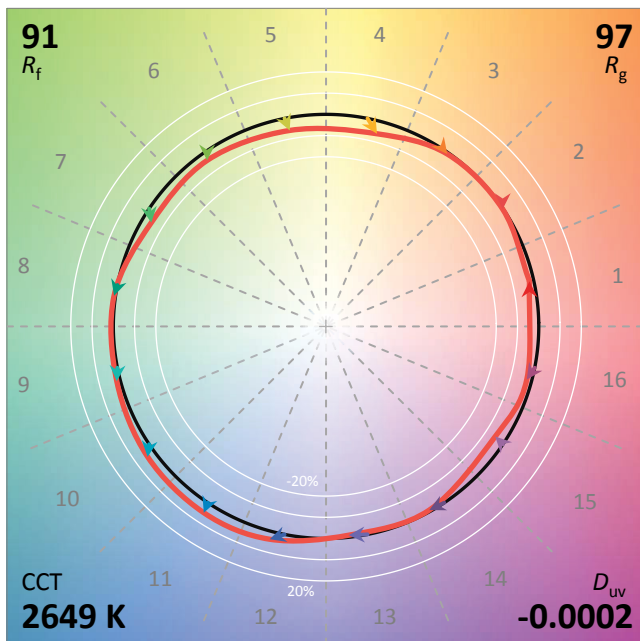
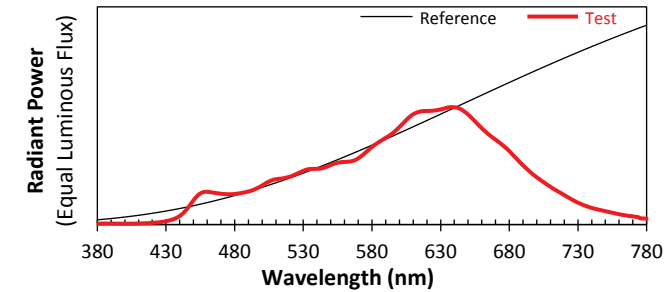
		Design Intent (The desired effect of color rendition on the illuminated environment)					
		Preference (P)		Vividness (V)		Fidelity (F)	
Priority Level (The balance between allowing for tradeoffs and increasing the likelihood of meeting the design intent)	1	P1	$R_f \geq 78$ $R_g \geq 95$ $-1\% \leq R_{cs,hl} \leq 15\%$	V1	$R_g \geq 118$ $R_{cs,hl} \geq 15\%$	F1	$R_f \geq 95$
	2	P2	$R_f \geq 75$ $R_g \geq 92$ $-7\% \leq R_{cs,hl} \leq 19\%$	V2	$R_g \geq 110$ $R_{cs,hl} \geq 6\%$	F2	$R_f \geq 90$ $R_{f,hl} \geq 90$
	3	P3	$R_f \geq 70$ $R_g \geq 89$ $-12\% \leq R_{cs,hl} \leq 23\%$	V3	$R_g \geq 100$ $R_{cs,hl} \geq 0\%$	F3	$R_f \geq 85$ $R_{f,hl} \geq 85$

Table note: All criteria assume a polychromatic environment with average horizontal illuminance between 200 and 700 lux and uniform chromaticity.

ANSI/IES TM-30-18 Color Rendition Report

Source: Dynamic White LED - 100% WW 0% CW

Model: Gantom R4 Dynamic White



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4637

y 0.4108

u' 0.2649

v' 0.5280

CIE 13.3-1995
(CRI)

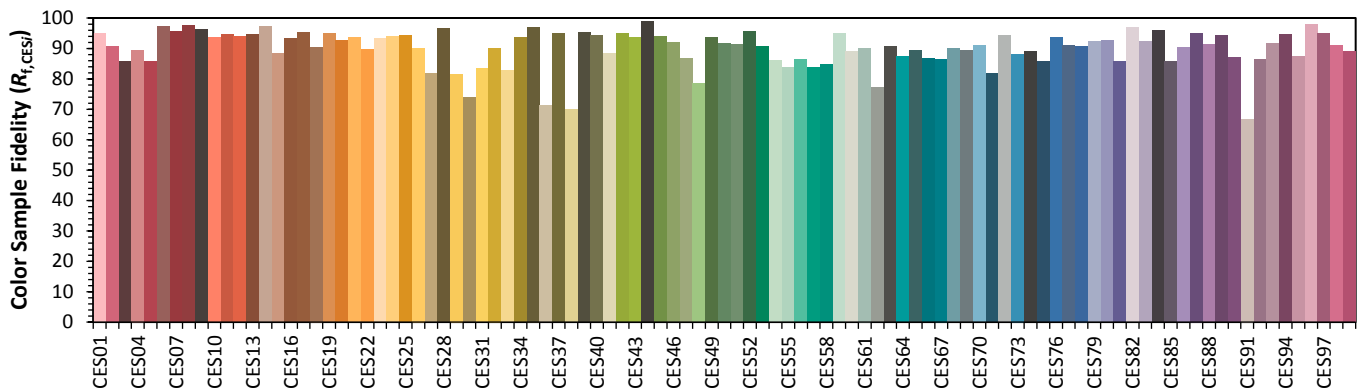
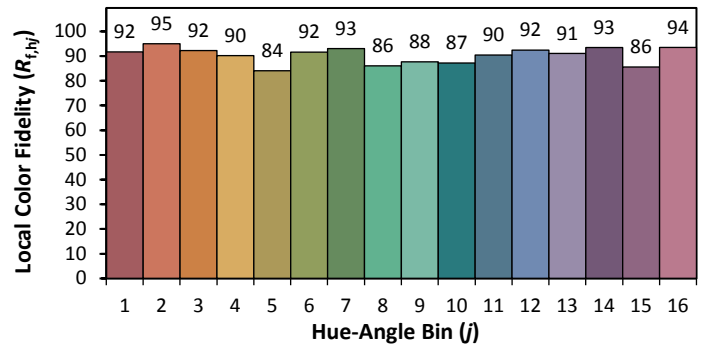
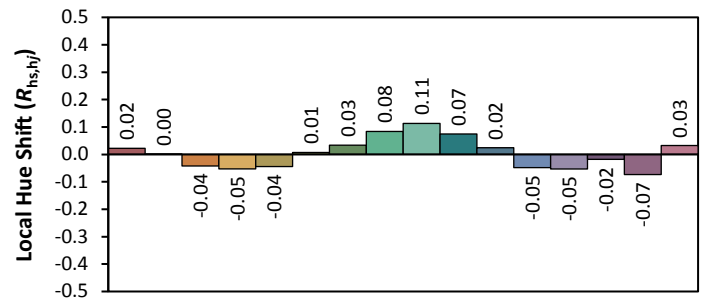
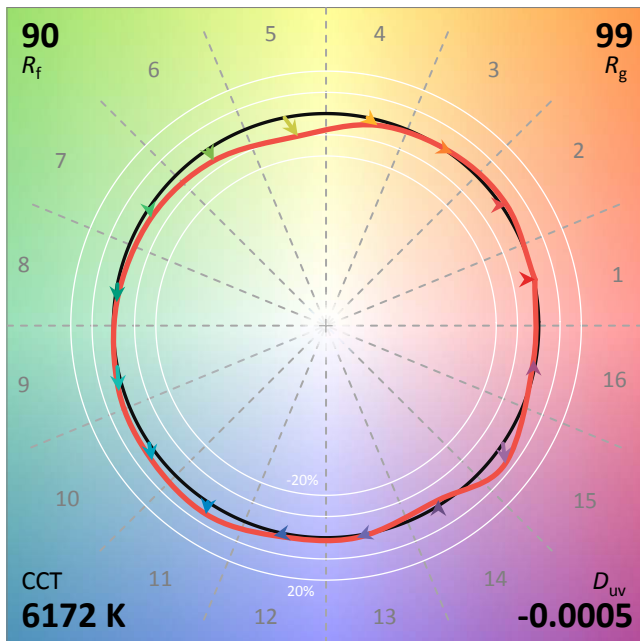
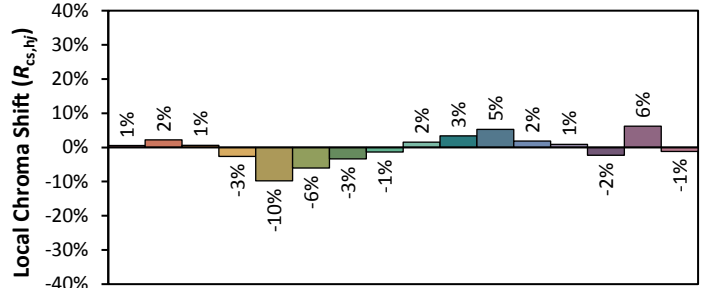
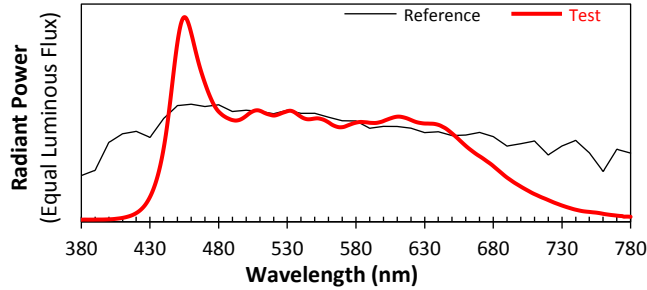
R_a 95

R_g 83

ANSI/IES TM-30-18 Color Rendition Report

Source: Dynamic White LED - 50% WW 50% CW

Model: Gantom R4 Dynamic White



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.3191
 y 0.3279
 u' 0.2027
 v' 0.4687

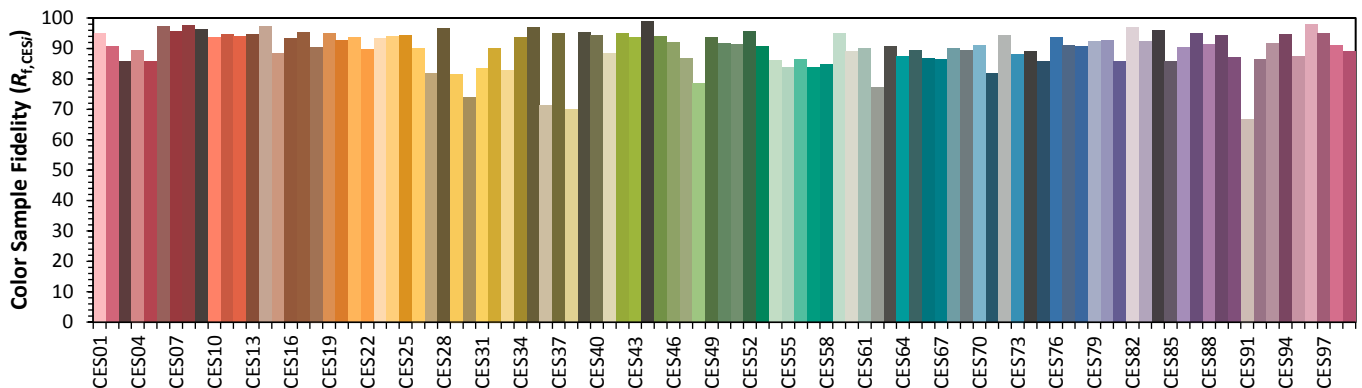
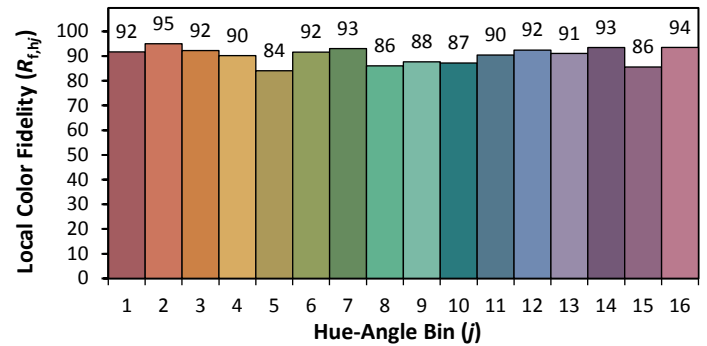
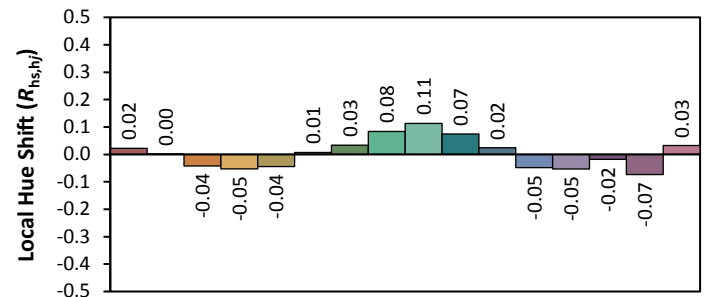
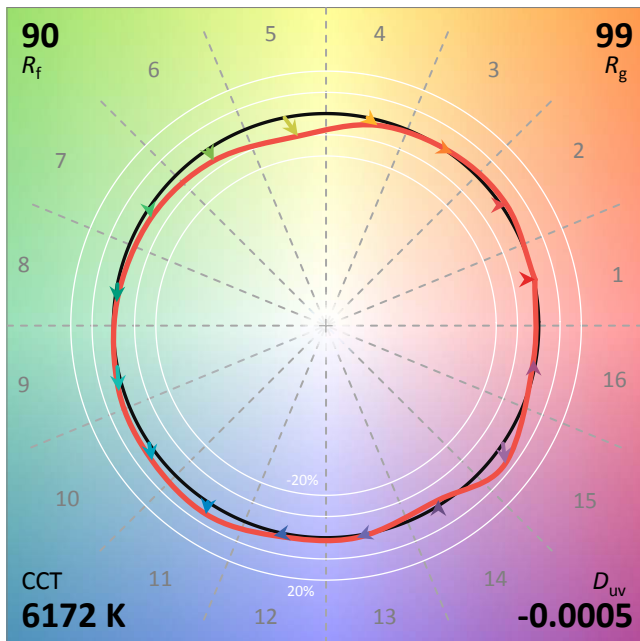
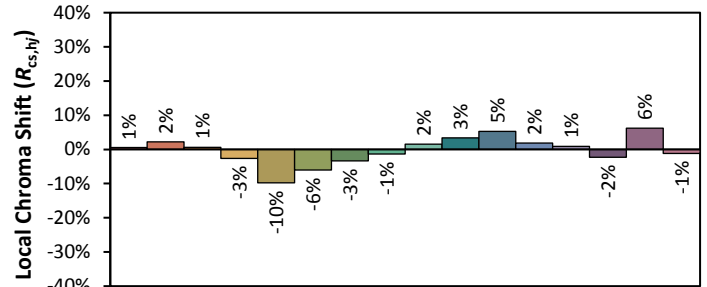
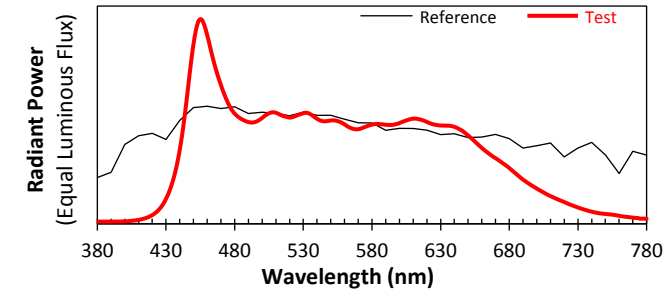
CIE 13.3-1995
(CRI)

R_a 93
 R_g 87

ANSI/IES TM-30-18 Color Rendition Report

Source: Dynamic White LED - 0% WW 100% CW

Model: Gantom R4 Dynamic White



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.3191
 y 0.3279
 u' 0.2027
 v' 0.4687

CIE 13.3-1995
(CRI)

R_a 93
 R_g 87