

# PURE EDGE LIGHTING

## TEST REPORT

### SCOPE OF WORK

LED Performance Testing

### MODEL NUMBER

VCL-10W10-6FT3L-SP-TC30K

### PROJECT NUMBER

G105870896

### REPORT NUMBER

105870896CHI-017

### ISSUE DATE

7/15/2024

### REVISED DATE

None

### TEST DATES

2024-07-10 through 2024-07-11.

### DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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### PAGES

10

**REPORT NUMBER**

105870896CHI-017

**MODEL NUMBER(s)**

VCL-10W10-6FT3L-SP-TC30K

**REPORT RENDERED TO:**

PURE EDGE LIGHTING  
1718 WEST FULLERTON  
CHICAGO, IL 60614  
USA

**STATEMENT OF LIMITATION**

NVLAP Lab Code 600186-0. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

**AUTHORIZATION**

The testing performed was authorized by signed quote number Qu-01461581-0.

**TEST STANDARDS**

IES LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

ANSI/IES LM-79-19 Optical and Electrical Measurements of Solid-State Lighting Products

ANSI NEMA ANSLG C78.377: 2017: Specifications for the Chromaticity of Solid State Lighting (SSL) Products

ANSI/IES TM-30-18: IES Method for Evaluating Light Source Color Rendition

In Charge of Testing:



David Dalo  
Engineer  
Lighting Division

Reviewer:



Jeff Davis  
NA Technical Lead  
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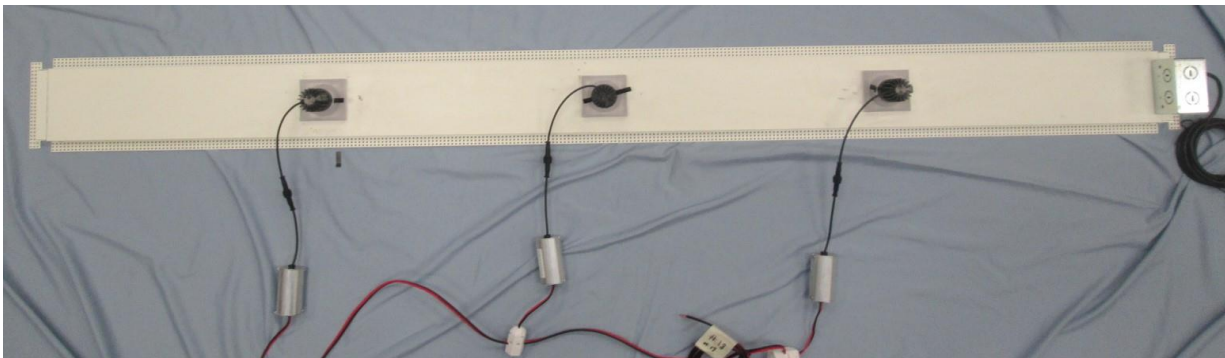
ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	AH06212024013032-017	VCL-10W10-6FT3L-SP-TC30K	LINEAR POCKET ONLY	Production	6/21/2024

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	VCL-10W10-6FT3L-SP-TC30K	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



# PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	VCL-10W10-6FT3L-SP-TC30K
Product Description:	LINEAR POCKET ONLY
LED Model No.:	LEDWISE/ SS5-12MM-24VDC-C-RGBCW
Driver Model No.:	PURE EDGE/PSBB-96W-WZ-TC5W7-24VDC-RL
Light Source:	LED

Criteria	Results	
	Goniophotometer	Integrating Sphere
Light Output (lumens)	1161.2	1170.1
Driver Output Power (W) @ 24 (Vdc)	40.98	
Calculated Efficacy (lm/W)	28.6	

Criteria	Results
Correlated Color Temperature (K)	2864
Color Rendering Index - Ra	96.4
Color Rendering Index - R9	93.4
Duv	-0.0046
Chromaticity Coordinate (x)	0.440
Chromaticity Coordinate (y)	0.393
Chromaticity Coordinate (u')	0.257
Chromaticity Coordinate (v')	0.518

# TEST METHODS

## SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS

No seasoning was performed in accordance with IESNA LM-79.

## INTEGRATING SPHERE TESTING

A spectroradiometer and integrating sphere were used to measure the spectral distribution for each EUT resulting in photometric and colorimetric data. Electrical measurements of the unit were measured using a power analyzer. Each EUT was operated at the rated input voltage of the system in its designated orientation. The ambient temperature was measured at a position inside the sphere and stabilization procedures to LM-79 were followed.

## TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

A Type C Mirror Goniophotometer system was used to measure the luminous intensity (candela) at each angle of distribution for the EUT. Electrical measurements of the unit were measured using a power analyzer. Each EUT was operated at the rated input voltage of the system in its designated orientation. The ambient temperature was measured at a position near the EUT at equal height and stabilization procedures to LM-79 were followed.

\*ANSI/IES Technical Memorandums (TM) reported are not NVLAP accredited

Test Configuration	Tested Model No.	Pass/Fail/NA
1	VCL-10W10-6FT3L-SP-TC30K	NA

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

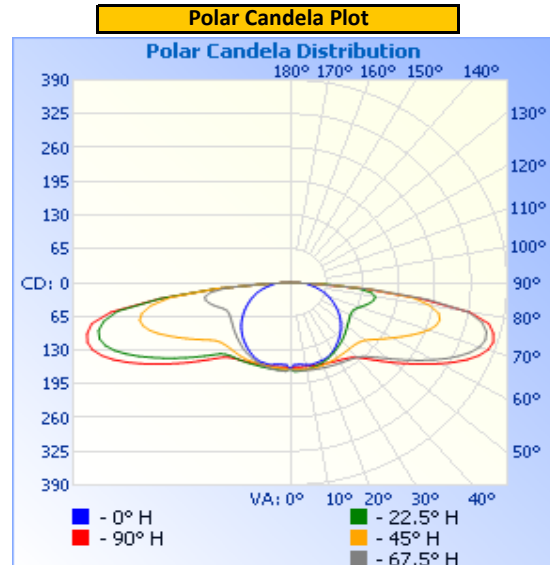
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ( )
Up	120.12	516.5	59.56	0.960

Light Output (lm)	Lumen Efficacy (lm/W)
1161.2	19.5

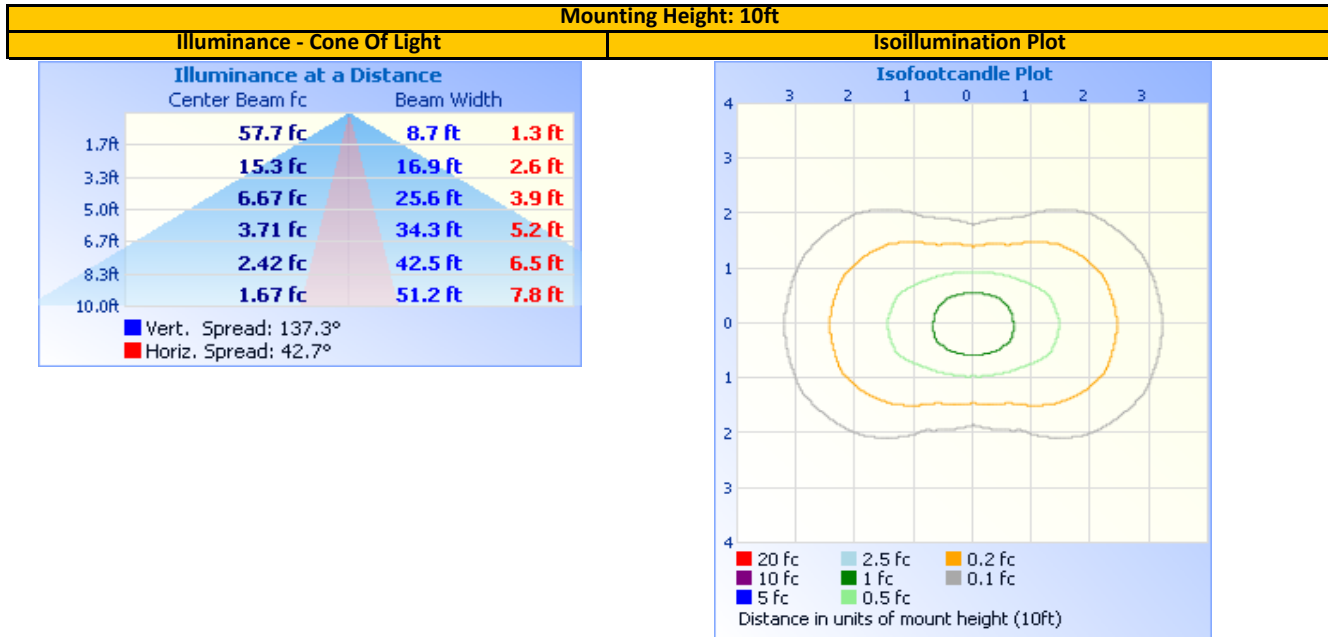
INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	167	167	167	167	167
5	158	171	167	170	163
10	161	170	169	171	164
15	162	168	170	173	165
20	161	165	169	174	167
25	159	161	168	176	170
30	153	156	167	179	173
35	145	150	166	182	178
40	137	145	166	188	188
45	128	139	167	202	210
50	118	133	173	227	239
55	108	128	190	260	273
60	95	125	213	297	312
65	84	125	239	334	351
70	71	136	265	362	378
75	57	149	278	365	378
80	44	155	255	325	327
85	32	121	145	148	133
90	0	0	0	0	0
95	0	0	0	0	0
100	0	0	0	0	0
105	0	0	0	0	0
110	0	0	0	0	0
115	0	0	0	0	0
120	0	0	0	0	0
125	0	0	0	0	0
130	0	0	0	0	0
135	0	0	0	0	0
140	0	0	0	0	0
145	0	0	0	0	0
150	0	0	0	0	0
155	0	0	0	0	0
160	0	0	0	0	0
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

Entire luminous intensity matrix found in .IES file



ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	140.4	12.1%	90-100	0.0	0.0%
0-40	243.7	21.0%	100-110	0.0	0.0%
0-60	547.3	47.1%	110-120	0.0	0.0%
60-90	613.9	52.9%	120-130	0.0	0.0%
70-100	387.5	33.4%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	1,161.2	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	1,161.2	100.0%	170-180	0.0	0.0%

Test Configuration	Tested Model No.	Pass/Fail/NA
1	VCL-10W10-6FT3L-SP-TC30K	NA

PHOTOMETRIC, COLORIMETRIC, AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

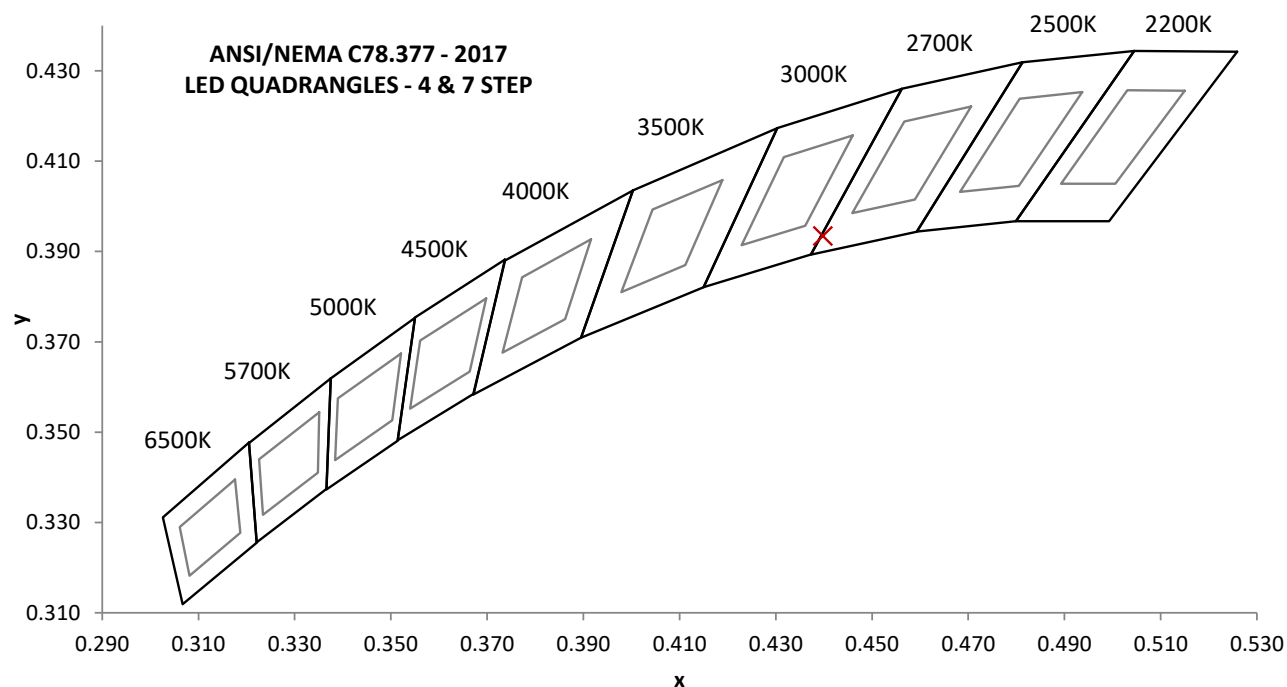
Base Orientation
Up

Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD (%)
119.98	516.1	59.44	0.983	21.70

Measured at 119.98(Vac)

Light Output (lm)	Lumen Efficacy (lm/W)	CCT (K)	CRI - Ra (I)	CRI - R9 (I)
1170.1	19.7	2864	96.4	93.4

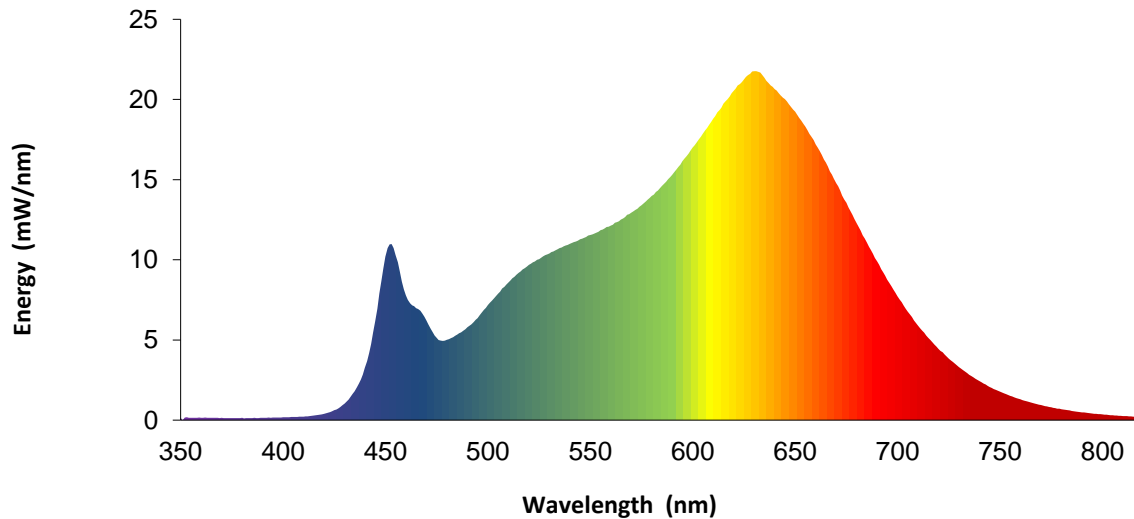
Duv (I)	1931 Chrom (x)	1931 Chrom (y)	1976 Chrom (u')	1976 Chrom (v')
-0.0046	0.440	0.393	0.257	0.518



SPECTRAL DISTRIBUTION OVER WAVELENGTHS

nm	mW/nm		nm	mW/nm		nm	mW/nm		nm	mW/nm
350	0.1		460	7.8		570	12.9		680	12.3
355	0.1		465	7.0		575	13.4		685	11.1
360	0.1		470	6.2		580	14.0		690	9.9
365	0.1		475	5.1		585	14.6		695	8.8
370	0.1		480	5.0		590	15.3		700	7.7
375	0.1		485	5.3		595	16.1		705	6.8
380	0.1		490	5.8		600	17.0		710	5.9
385	0.1		495	6.4		605	17.9		715	5.1
390	0.1		500	7.2		610	18.8		720	4.4
395	0.2		505	7.9		615	19.7		725	3.8
400	0.2		510	8.6		620	20.5		730	3.3
405	0.2		515	9.2		625	21.2		735	2.8
410	0.2		520	9.7		630	21.8		740	2.4
415	0.3		525	10.0		635	21.3		745	2.1
420	0.4		530	10.4		640	20.7		750	1.8
425	0.6		535	10.7		645	20.0		755	1.5
430	1.0		540	11.0		650	19.2		760	1.3
435	1.8		545	11.3		655	18.3		765	1.1
440	3.3		550	11.6		660	17.2		770	0.9
445	6.1		555	11.8		665	16.1		775	0.8
450	10.2		560	12.1		670	14.8		780	0.7
455	10.3		565	12.5		675	13.6		---	---

Without correction of sample absorption.



Portrayed color in graphic is estimated by wavelength (nm) and may not be exact - it is a visual representation only





Total Quality. Assured.

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**EQUIPMENT LIST**

**REPORT NO. 105870896CHI-017**

#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	Yokogawa Power Meter	WT310E	CHI0664	4/2/2024	4/2/2025
2	Omega Thermometer	DPI8-C24	146920	10/9/2023	10/9/2024
3	LSI High Speed Mirror Goniometer	6440T	146928	VBV	VBV
4	Omega Thermohygrometer	OM-CP-RFPRHTEMP2000A	CHI0764	3/14/2024	3/14/2025
5	Chroma Power Supply	61604	CHI0371	VBV	VBV
8	Omega Thermohygrometer	OM-CP-RFPRHTEMP2000A	CHI0727	3/14/2024	3/14/2025
9	Labsphere Spectroradiometer	CDS2600	CHI0539	VBV	VBV
10	3 Meter Sphere	SPR600	CHI0088	VBV	VBV
11	Elgar AC Power Supply	CW1251	146112	VBV	VBV
12	Sorenson DC Power Supply	XFR150-8	146846	VBV	VBV
13	Yokogawa Power Meter	WT1600	146770	10/11/2023	10/11/2024
17	Omega thermometer	USB TC08	EQAH002615	4/5/2024	4/5/2025
26	Xitron Power Analyzer	2801	CHI0763	4/10/2024	4/10/2025

Note: Standard sources listed above are traceable to NIST: National Institute of Standards and Technology

**REVISION HISTORY**

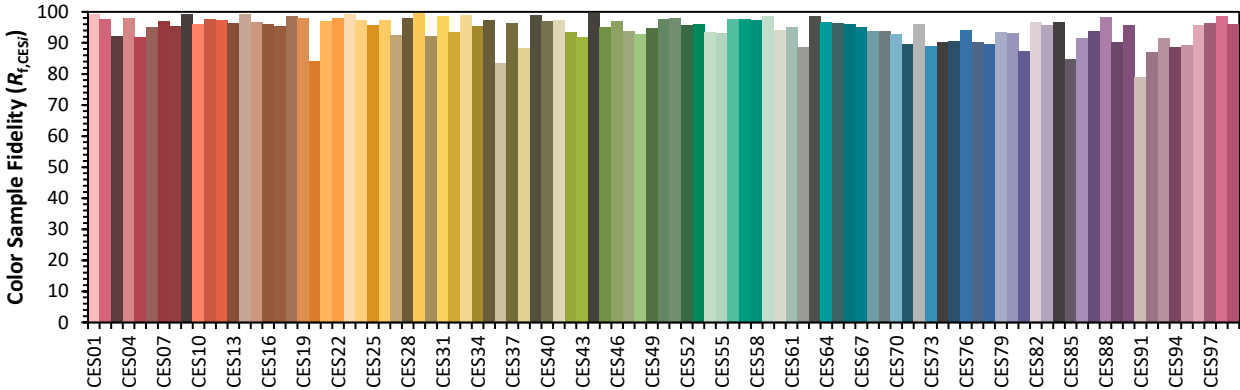
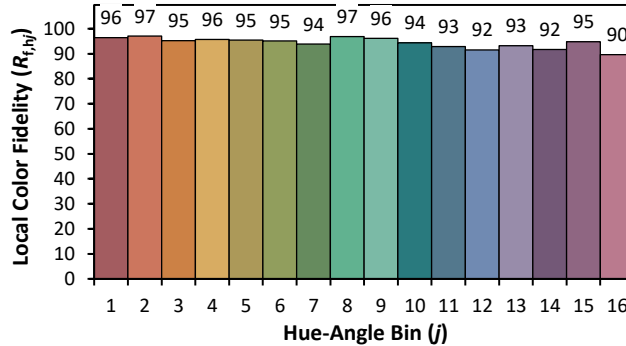
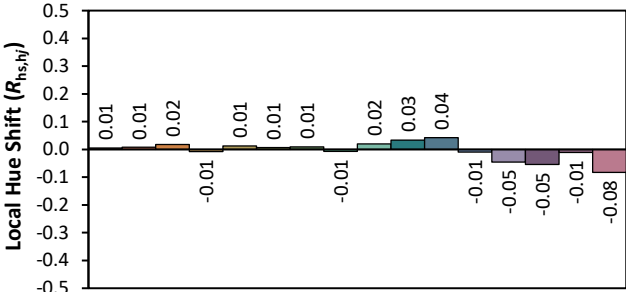
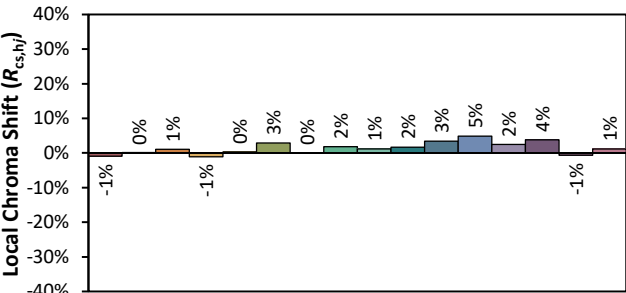
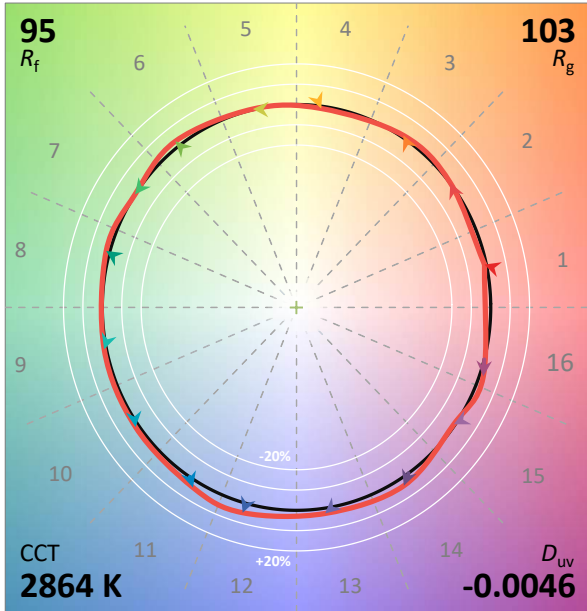
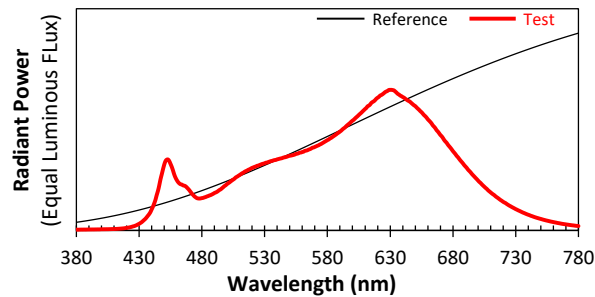
#	Revision Date	Updated By	Reviewed By	Description of Change
---	None	---	---	---
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Test Configuration	Tested Model No.	Pass/Fail/NA
1	VCL-10W10-6FT3L-SP-TC30K	NA

ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD  
Date: 7/11/2024

Manufacturer: Pure Edge Lighting  
Model: VCL-10W10-6FT3L-SP-TC30K



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

x 0.4398  
y 0.3934  
u' 0.2571  
v' 0.5175