

# PURE EDGE LIGHTING

## TEST REPORT

### SCOPE OF WORK

LED Performance Testing

### MODEL NUMBER

L35-FL-30K-RDWW

### PROJECT NUMBER

G105870896

### REPORT NUMBER

105870896CHI-023

### ISSUE DATE

7/15/2024

### REVISED DATE

None

### TEST DATES

2024-06-27 through 2024-07-02.

### DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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### PAGES

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**REPORT NUMBER**

105870896CHI-023

**MODEL NUMBER(s)**

L35-FL-30K-RDWW

**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

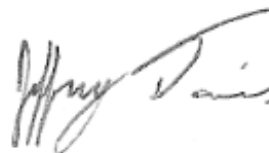
ANSI/IES TM-30-18: IES Method for Evaluating Light Source Color Rendition

In Charge of Testing:



David Dalo  
Engineer  
Lighting Division

Reviewer:



Jeff Davis  
NA Technical Lead  
Lighting Division

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ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	AH06212024013032-023	L35-FL-30K-RDWW	DOWNLIGHTS	Production	6/21/2024

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	L35-FL-30K-RDWW	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



# PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	L35-FL-30K-RDWW
Product Description:	DOWNLIGHTS
LED Model No.:	BXRE-30G1000-C-83
Driver Model No.:	PUP40T-1LMC-850
Light Source:	LED

Criteria	Results	
	Goniophotometer	Integrating Sphere
Light Output (lumens)	1794.1	1802.4
Input Power (W) @ 120 (Vac)	23.99	24.08
Lumen Efficacy (lm/W)	74.8	74.9
Input Power Factor (I) @ 120 (Vac)	0.970	0.969

Criteria	Results
Input ATHD (%) @ 120 (Vac)	11.37
Correlated Color Temperature (K)	3036
Color Rendering Index - Ra	91.6
Color Rendering Index - R9	70.6
Duv	0.0002
Chromaticity Coordinate (x)	0.435
Chromaticity Coordinate (y)	0.404
Chromaticity Coordinate (u')	0.249
Chromaticity Coordinate (v')	0.521

# 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

## TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

REPORT NO. 105870896CHI-023

Test Configuration	Tested Model No.	Pass/Fail/NA
1	L35-FL-30K-RDWW	NA

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

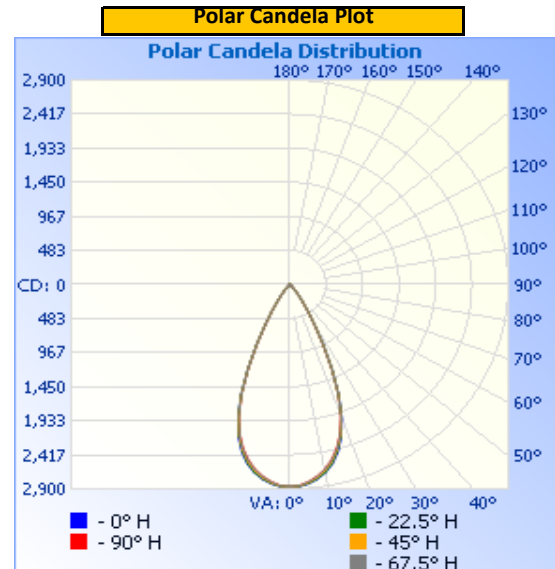
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ( )
Up	120.08	206.0	23.99	0.970

Light Output (lm)	Lumen Efficacy (lm/W)
1794.1	74.8

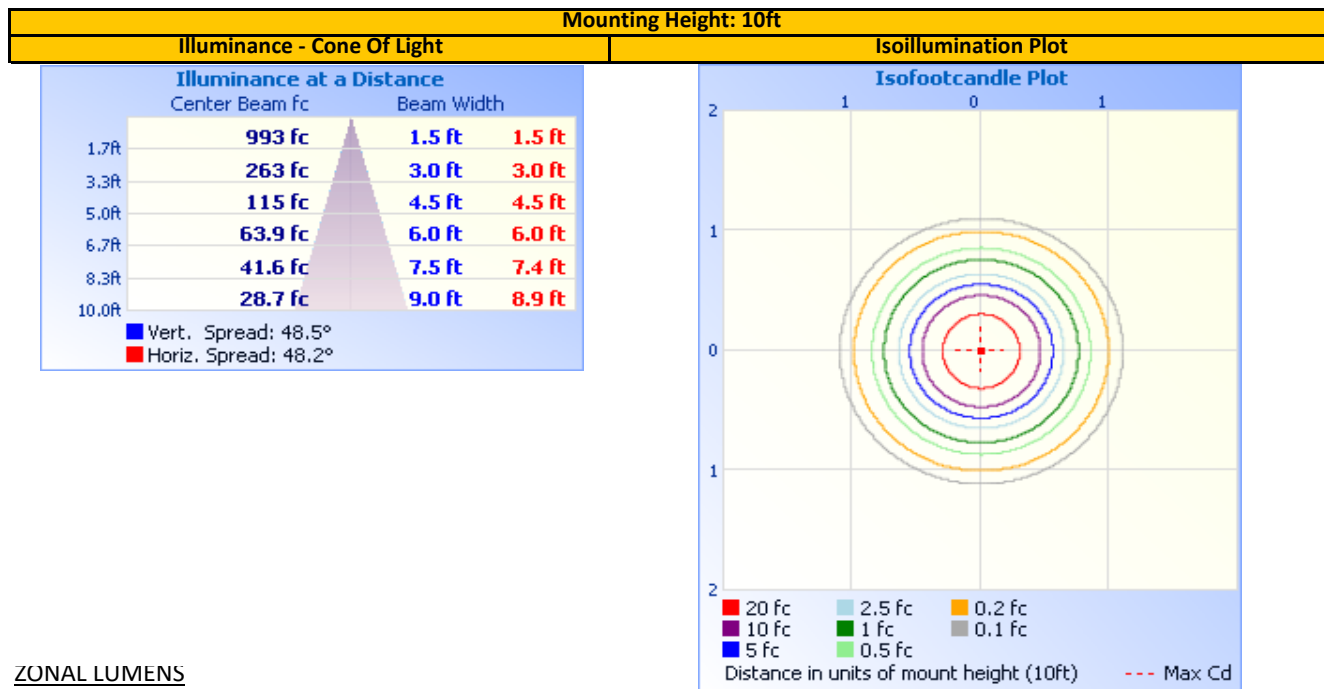
### INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	2869	2869	2869	2869	2869
5	2836	2829	2821	2812	2808
10	2709	2703	2682	2664	2660
15	2459	2444	2429	2413	2402
20	2015	2002	1996	1985	1980
25	1325	1322	1317	1313	1300
30	658	659	655	651	638
35	292	291	289	284	279
40	129	127	124	121	119
45	56	56	55	53	53
50	23	23	23	23	23
55	16	16	16	16	16
60	11	11	11	11	11
65	8	8	8	8	8
70	6	6	6	6	6
75	4	4	4	4	4
80	2	2	2	2	2
85	1	1	1	1	1
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	1,522.7	84.9%	90-100	0.0	0.0%
0-40	1,720.5	95.9%	100-110	0.0	0.0%
0-60	1,781.0	99.3%	110-120	0.0	0.0%
60-90	13.1	0.7%	120-130	0.0	0.0%
70-100	5.2	0.3%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	1,794.1	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	1,794.1	100.0%	170-180	0.0	0.0%

Test Configuration	Tested Model No.	Pass/Fail/NA
1	L35-FL-30K-RDWW	NA

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

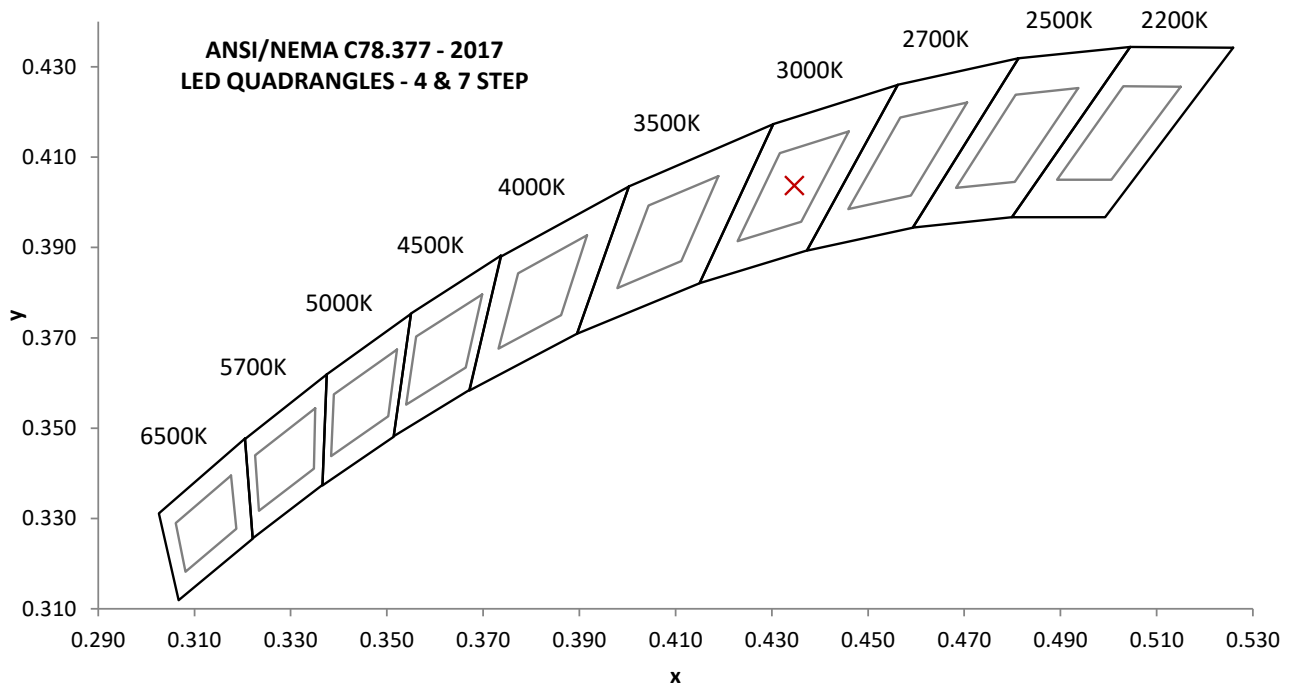
Base Orientation
Up

Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD (%)
119.99	207.2	24.08	0.969	11.37

Measured at 119.99(Vac)

Light Output (lm)	Lumen Efficacy (lm/W)	CCT (K)	CRI - Ra (I)	CRI - R9 (I)
1802.4	74.9	3036	91.6	70.6

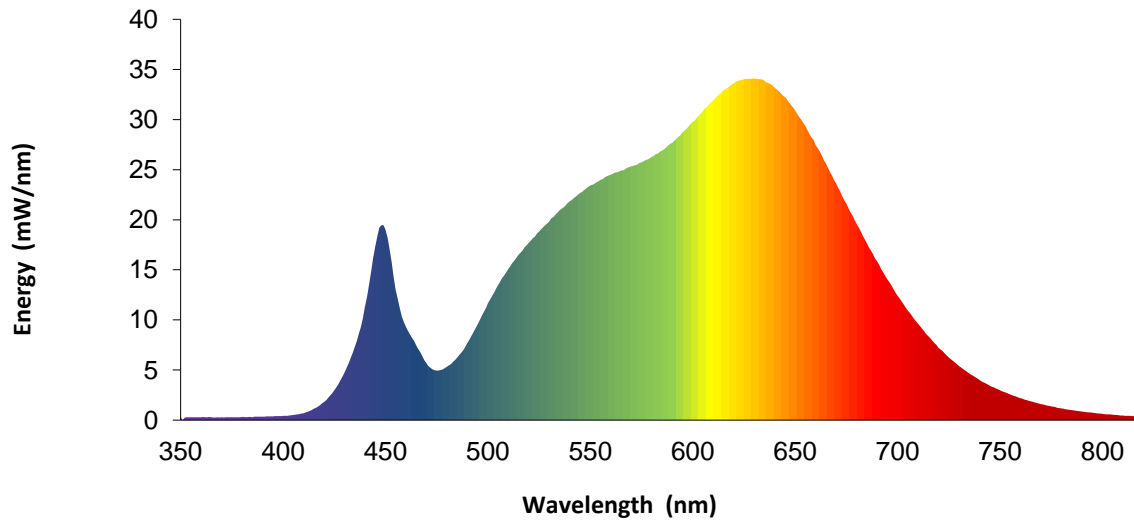
Duv (I)	1931 Chrom (x)	1931 Chrom (y)	1976 Chrom (u')	1976 Chrom (v')
0.0002	0.435	0.404	0.249	0.521



SPECTRAL DISTRIBUTION OVER WAVELENGTHS

nm	mW/nm		nm	mW/nm		nm	mW/nm		nm	mW/nm
350	0.3		460	9.3		570	25.3		680	19.6
355	0.3		465	7.5		575	25.7		685	17.6
360	0.3		470	5.7		580	26.3		690	15.8
365	0.3		475	4.9		585	26.9		695	14.1
370	0.3		480	5.3		590	27.7		700	12.4
375	0.3		485	6.2		595	28.7		705	11.0
380	0.3		490	7.7		600	29.8		710	9.6
385	0.3		495	9.6		605	30.9		715	8.4
390	0.4		500	11.7		610	31.9		720	7.2
395	0.4		505	13.5		615	32.9		725	6.3
400	0.4		510	15.1		620	33.6		730	5.4
405	0.5		515	16.5		625	34.0		735	4.7
410	0.7		520	17.7		630	34.1		740	4.0
415	1.1		525	18.8		635	33.9		745	3.5
420	1.8		530	19.9		640	33.2		750	3.0
425	3.0		535	20.9		645	32.2		755	2.6
430	4.8		540	21.9		650	30.9		760	2.2
435	7.3		545	22.7		655	29.3		765	1.9
440	11.3		550	23.4		660	27.4		770	1.6
445	17.3		555	24.0		665	25.6		775	1.4
450	19.0		560	24.5		670	23.6		780	1.2
455	13.0		565	24.9		675	21.6		---	---

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



#	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	XT2640	CHI0611	7/7/2023	7/7/2024

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	L35-FL-30K-RDWW	NA

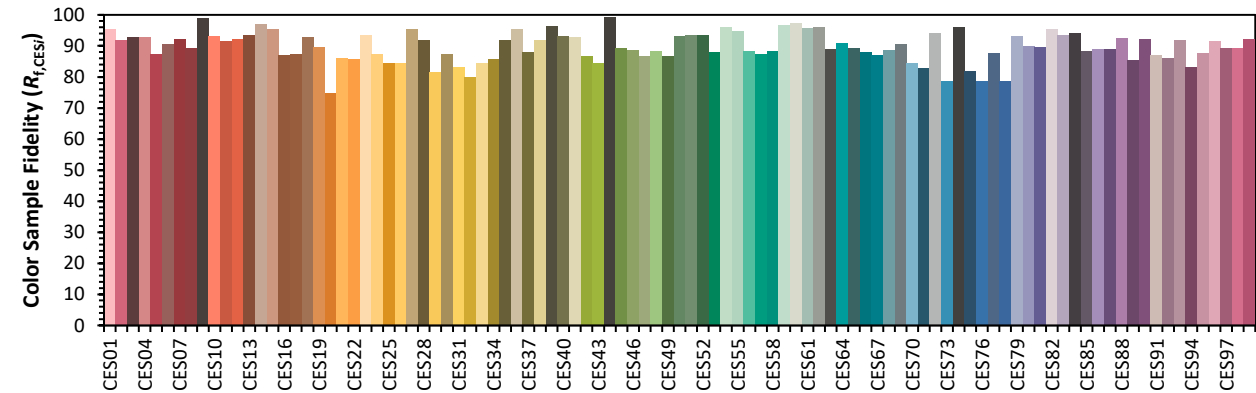
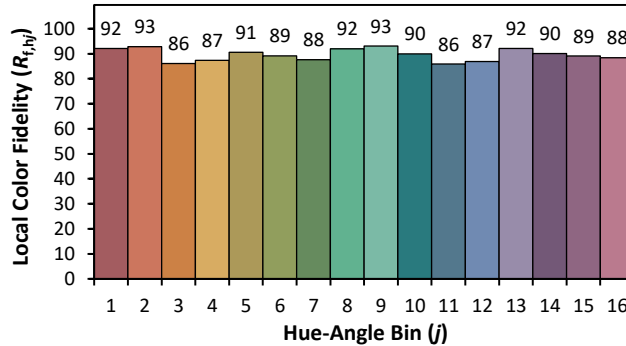
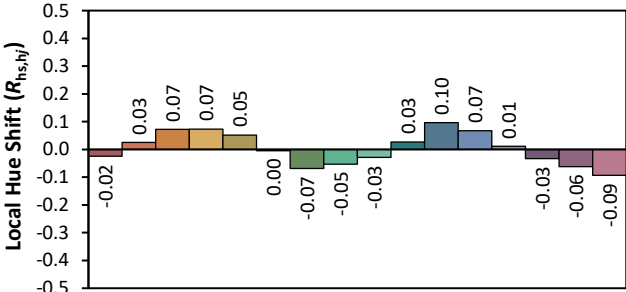
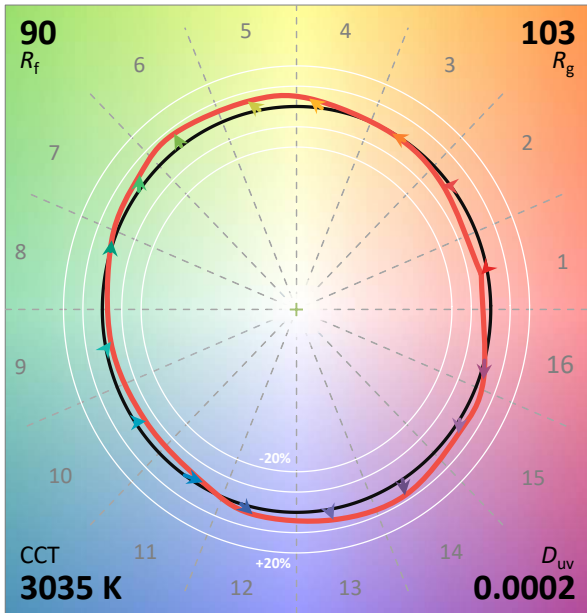
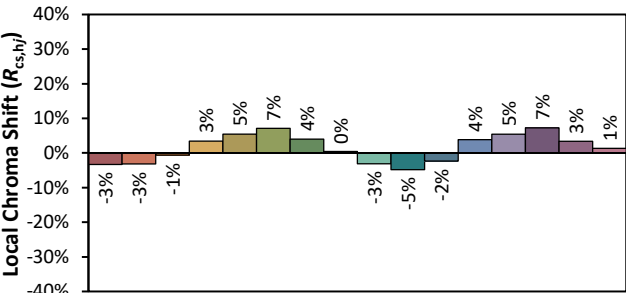
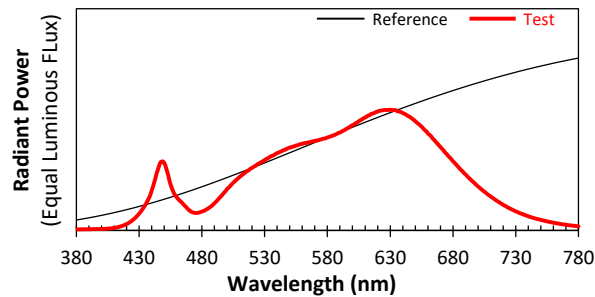
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Pure Edge Lighting

Date: 7/2/2024

Model: L35-FL-30K-RDWW



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

x 0.4347  
y 0.4037  
u' 0.2493  
v' 0.5209