

PURE EDGE LIGHTING

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

TH-ATL-26W-NF-A-WZ-TC-WH

PROJECT NUMBER

G105870896

REPORT NUMBER

105870896CHI-016

ISSUE DATE

7/15/2024

REVISED DATE

None

TEST DATES

2024-06-24 through 2024-06-28.

DOCUMENT CONTROL NUMBER

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PAGES

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REPORT NUMBER

105870896CHI-016

MODEL NUMBER(s)

TH-ATL-26W-NF-A-WZ-TC-WH

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
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Reviewer:



Jeff Davis
NA Technical Lead
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ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	AH06212024013032-016	TH-ATL-26W-NF-A-WZ-TC-WH	TRACK HEAD	Production	6/21/2024

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	TH-ATL-26W-NF-A-WZ-TC-WH	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	TH-ATL-26W-NF-A-WZ-TC-WH
Product Description:	TRACK HEAD
LED Model No.:	TYF/ TB 1814D-058-RGBCW
Driver Model No.:	N/A
Light Source:	LED

Criteria	Results	
	Goniophotometer	Integrating Sphere
Light Output (lumens)	1628.0	1609.6
Input Power (W) @ 120 (Vac)	25.83	25.89
Lumen Efficacy (lm/W)	63.0	62.2
Input Power Factor (I) @ 120 (Vac)	0.506	0.521

Criteria	Results
Input ATHD (%) @ 120 (Vac)	157.20
Correlated Color Temperature (K)	2900
Color Rendering Index - Ra (I)	95.3
Color Rendering Index - R9 (I)	86.5
Duv (I)	-0.0025
Chromaticity Coordinate (x)	0.440
Chromaticity Coordinate (y)	0.399
Chromaticity Coordinate (u')	0.255
Chromaticity Coordinate (v')	0.520

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	TH-ATL-26W-NF-A-WZ-TC-WH	NA

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

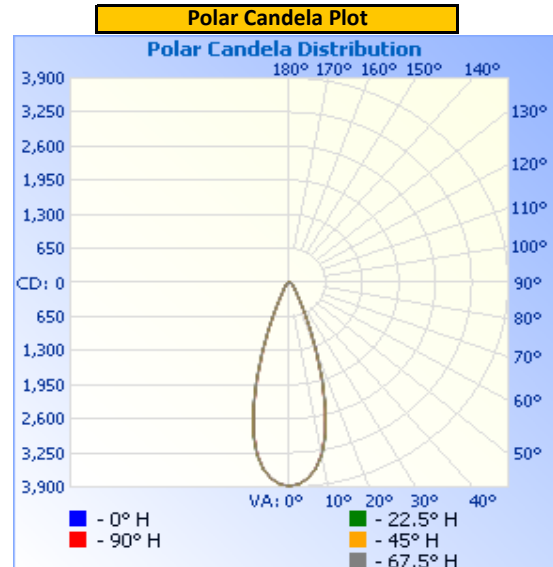
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ()
Up	120.06	423.4	25.83	0.506

Light Output (lm)	Lumen Efficacy (lm/W)
1628.0	63.0

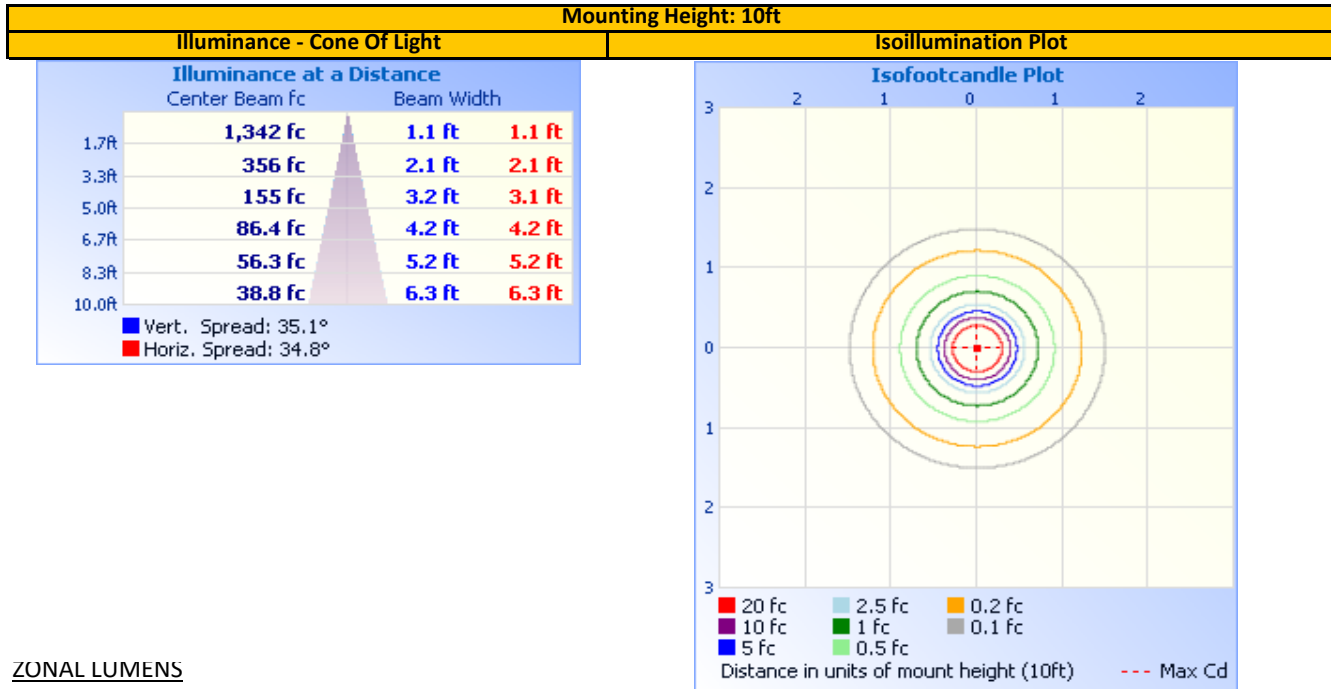
INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	3878	3878	3878	3878	3878
5	3823	3803	3787	3769	3749
10	3524	3481	3434	3381	3316
15	2817	2725	2663	2567	2463
20	1693	1593	1550	1485	1394
25	817	763	736	700	648
30	377	348	336	323	306
35	213	203	197	192	188
40	152	147	143	140	137
45	115	111	109	107	105
50	89	86	85	83	82
55	68	65	65	63	62
60	50	48	47	46	45
65	34	32	31	30	29
70	19	18	17	16	16
75	9	9	8	8	7
80	4	4	4	3	3
85	2	2	2	2	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	1,325.6	81.4%	90-100	0.0	0.0%
0-40	1,450.2	89.1%	100-110	0.0	0.0%
0-60	1,588.7	97.6%	110-120	0.0	0.0%
60-90	39.3	2.4%	120-130	0.0	0.0%
70-100	10.3	0.6%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	1,628.0	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	1,628.0	100.0%	170-180	0.0	0.0%

Test Configuration	Tested Model No.	Pass/Fail/NA
1	TH-ATL-26W-NF-A-WZ-TC-WH	NA

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

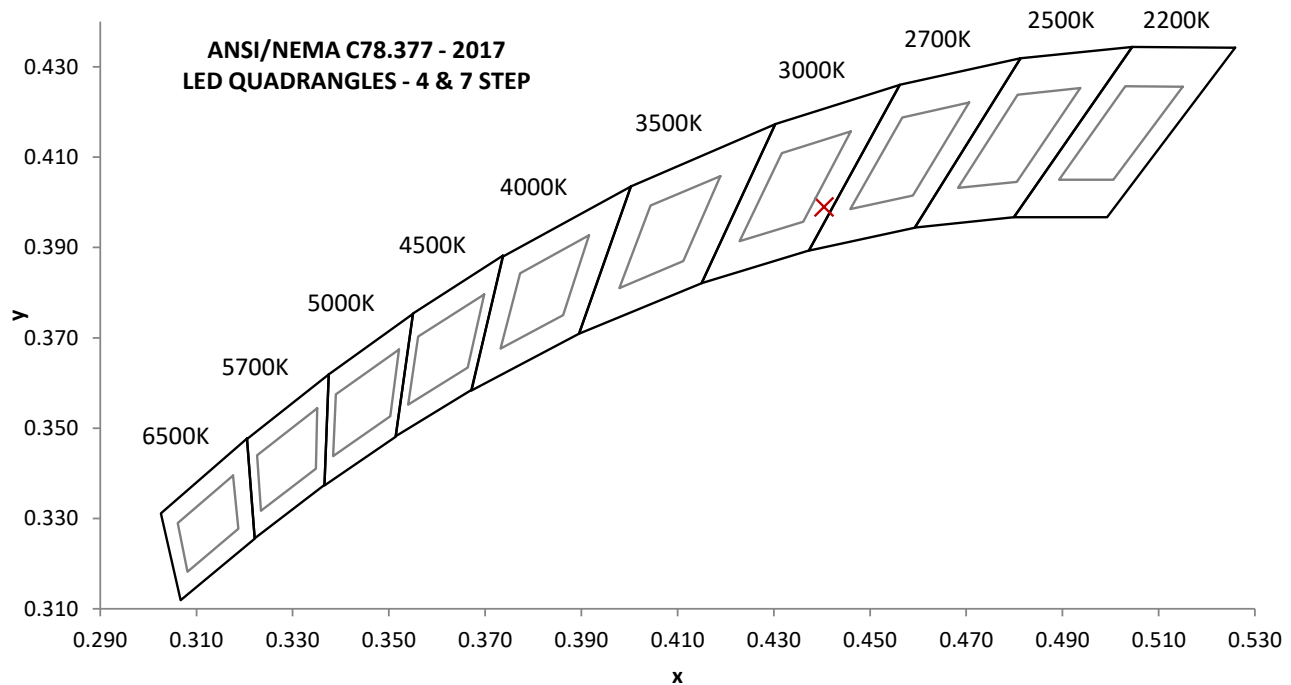
Base Orientation
Up

Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD (%)
119.99	414.2	25.89	0.521	157.20

Measured at 119.99(Vac)

Light Output (lm)	Lumen Efficacy (lm/W)	CCT (K)	CRI - Ra (I)	CRI - R9 (I)
1609.6	62.2	2900	95.3	86.5

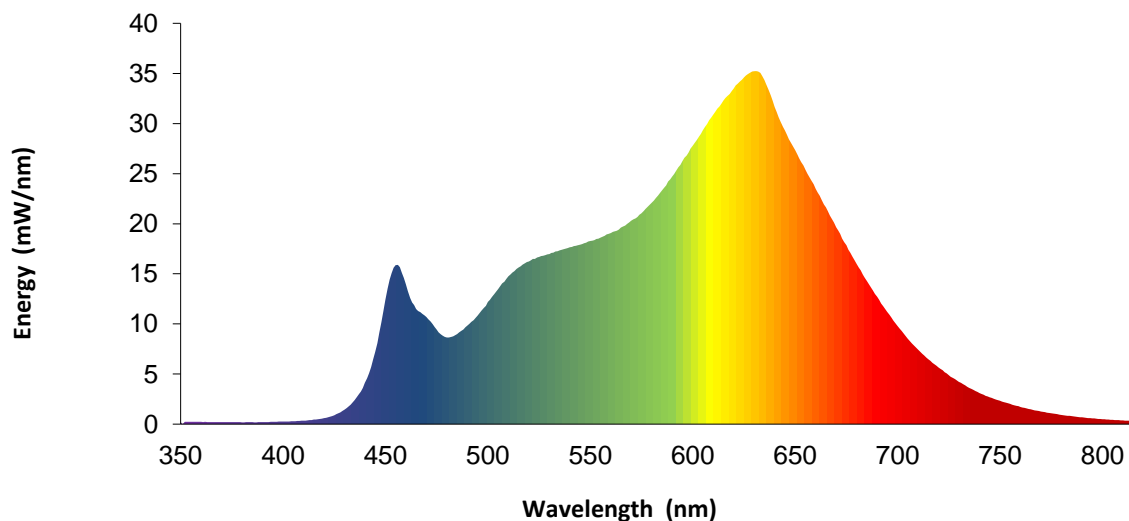
Duv (I)	1931 Chrom (x)	1931 Chrom (y)	1976 Chrom (u')	1976 Chrom (v')
-0.0025	0.440	0.399	0.255	0.520



SPECTRAL DISTRIBUTION OVER WAVELENGTHS

nm	mW/nm		nm	mW/nm		nm	mW/nm		nm	mW/nm
350	0.2		460	14.0		570	20.3		680	16.0
355	0.2		465	11.5		575	21.0		685	14.3
360	0.2		470	10.7		580	22.1		690	12.7
365	0.2		475	9.4		585	23.3		695	11.2
370	0.2		480	8.6		590	24.7		700	9.8
375	0.2		485	9.0		595	26.2		705	8.5
380	0.2		490	9.8		600	27.8		710	7.4
385	0.2		495	10.8		605	29.3		715	6.5
390	0.2		500	12.2		610	30.9		720	5.7
395	0.2		505	13.5		615	32.3		725	4.9
400	0.3		510	14.8		620	33.5		730	4.2
405	0.3		515	15.6		625	34.6		735	3.6
410	0.4		520	16.2		630	35.2		740	3.1
415	0.4		525	16.7		635	34.3		745	2.7
420	0.6		530	17.0		640	31.6		750	2.3
425	0.9		535	17.3		645	29.3		755	2.0
430	1.5		540	17.7		650	27.3		760	1.7
435	2.4		545	17.9		655	25.4		765	1.5
440	4.1		550	18.3		660	23.5		770	1.3
445	7.2		555	18.6		665	21.6		775	1.1
450	12.4		560	19.1		670	19.6		780	0.9
455	15.9		565	19.6		675	17.8		---	---

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 LIST

REPORT NO. 105870896CHI-016

#	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	VBU	VBU
4	Omega Thermohygrometer	OM-CP-RFPRHTEMP2000A	CHI0764	3/14/2024	3/14/2025
5	Chroma Power Supply	61604	CHI0371	VBU	VBU
8	Omega Thermohygrometer	OM-CP-RFPRHTEMP2000A	CHI0727	3/14/2024	3/14/2025
9	Labsphere Spectroradiometer	CDS2600	CHI0539	VBU	VBU
10	3 Meter Sphere	SPR600	CHI0088	VBU	VBU
11	Elgar AC Power Supply	CW1251	146112	VBU	VBU
12	Sorenson DC Power Supply	XFR150-8	146846	VBU	VBU
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

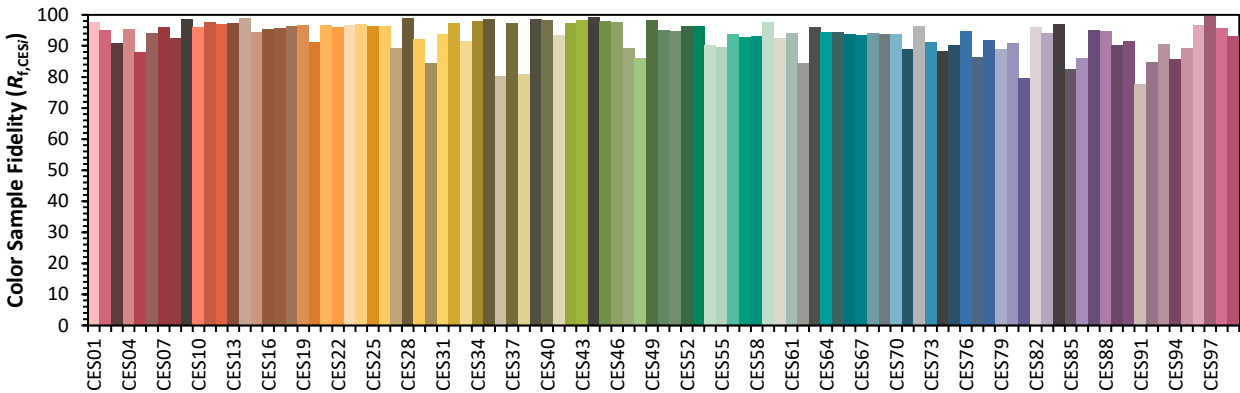
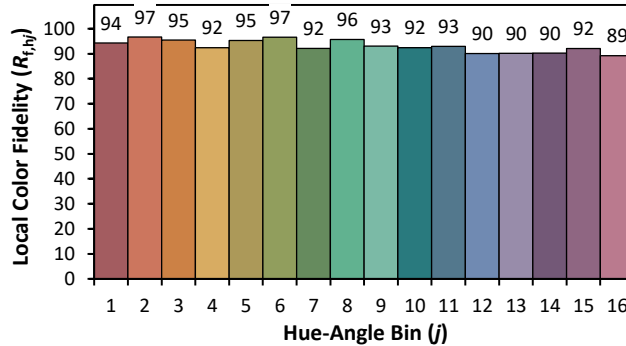
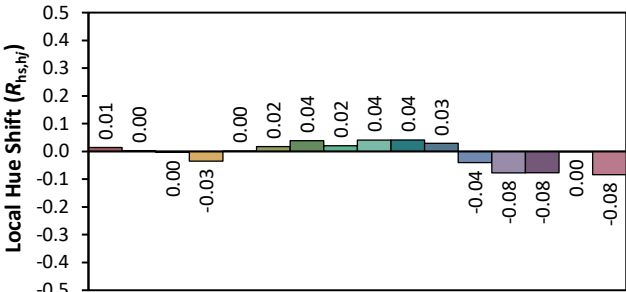
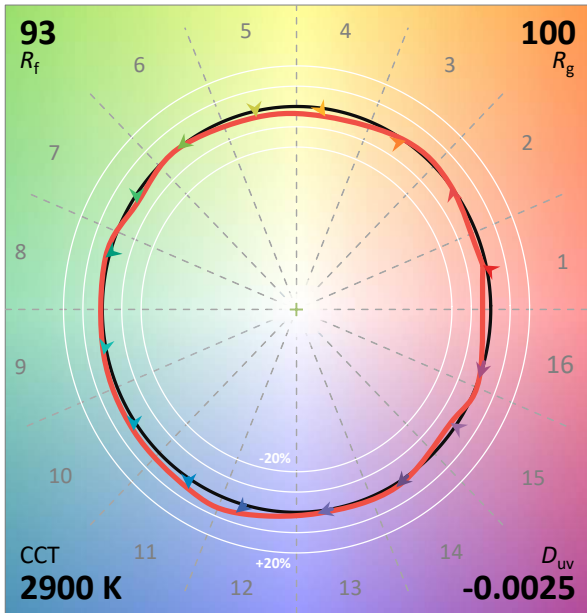
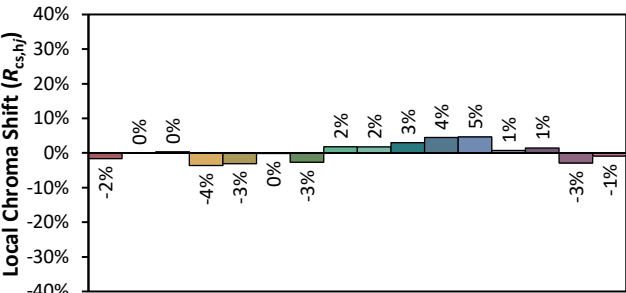
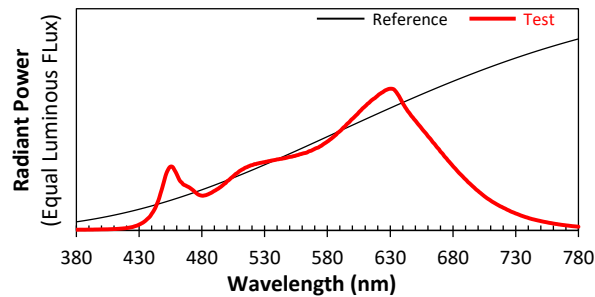
#	Revision Date	Updated By	Reviewed By	Description of Change
---	None	---	---	---
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Test Configuration	Tested Model No.	Pass/Fail/NA
1	TH-ATL-26W-NF-A-WZ-TC-WH	NA

ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD
Date: 6/24/2024

Manufacturer: Pure Edge Lighting
Model: TH-ATL-26W-NF-A-WZ-TC-WH



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

x 0.4404
y 0.3989
u' 0.2551
v' 0.5199