

A17 Ultra-Economy Floodlight



3-Way Adjustable



A17 70W-150W



A17 200W-375W



PROJECT:

DATE:

TYPE:

PREPARED BY:



KEY FEATURES

- * Available wattages: 70W, 100W, 150W, 200W, 240W, 300W & 375W
Available CCT: 4000K/5000K
3-way adjustable model also available:
Selectable CCT: (4000K/5000K)
Selectable wattages: 70W/100W/150W
Selectable photocell that can be turned on and off
- * Available wattages: 70W, 100W, 150W, 200W, 240W, 300W & 375W
- * Voltage ratings: 120-277V. 480V only available from 150W-375W.
- * Universal Pole mount. Slipfitter mount available on 150W
- * Remote control for microwave sensor available as an accessory
- * Suitable for wet locations



100,000
HOURS



3-WAY
ADJUSTABLE
(70W/100W/150W)



FIELD
ADJUSTABLE



IP RAT-
ING



WET
RATED

TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed

Suitable for wet locations

DLC Listed

DLC Premium listed

IP Rating

Ingress protection rating of IP65 for dust and water

PERFORMANCE

Lifespan

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

LED CHARACTERISTICS

LEDs

Long-life, high-efficacy, surface-mount LEDs

Color Uniformity

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standards for Specifications for the Chromaticity of Solid State Lighting (SLL) Products, ANSI C78.377-2017.

CONSTRUCTION

Cold Weather Starting

Minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature

Suitable for use in up to 40°C (104°F)

Housing

Die-cast aluminum housing, lens frame and mounting arm

Mounting

Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease. Round pole diameter must be >4" to mount fixtures at 90° orientation.

Slipfitter with 180° pivot available for mounting on 2 3/8" tenon. Slipfitter only available 150W

Lens

Polycarbonate lens

Green Technology

Mercury and UV free. RoHs-compliant components.

Finish

Formulated for high durability and long lasting color.

A17 Ultra-Economy Floodlight



TECHNICAL SPECIFICATIONS (CONTINUED)

ELECTRICAL

Drivers (3-way adjustable)

Constant Current, Class 2, 120-277V, 50/60Hz

70W: 120V: 0.70A, 208V: 0.40A, 240V: 0.35A, 277V: 0.30A

100W: 120V: 1.00A, 208V: 0.60A, 240V: 0.50A, 277V: 0.40A

150W: 120V: 1.50A, 208V: 0.80A, 240V: 0.70A, 277V: 0.06A

Drivers

Constant Current, Class 2, 120-277V, 50/60Hz

70W: 120V: 0.70A, 208V: 0.40A, 240V: 0.35A, 277V: 0.30A

100W: 120V: 1.00A, 208V: 0.60A, 240V: 0.50A, 277V: 0.40A

150W: 120V: 1.50A, 208V: 0.80A, 240V: 0.70A, 277V: 0.60A

200W: 120V: 2.00A, 208V: 1.10A, 240V: 0.95A, 277V: 0.80A

240W: 120V: 2.40A, 208V: 1.30A, 240V: 1.10A, 277V: 1.00A

300W: 120V: 3.00A, 208V: 1.60A, 240V: 1.40A, 277V: 1.20A

375W: 120V: 3.50A, 208V: 2.00A, 240V: 1.75A, 277V: 1.50A

Constant Current, Class 2, 480V, 50/60Hz

150W: 480V: 0.40A

240W: 480V: 0.60A

300W: 480V: 0.70A

240W: 480V: 0.90A

OTHER

Warranty

The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

DIMENSIONS : X17 XFU 3-WAY FIELD ADJUSTABLE

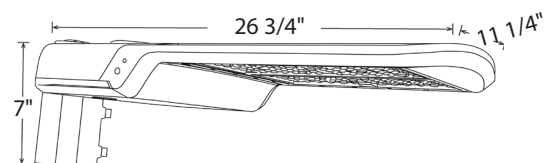
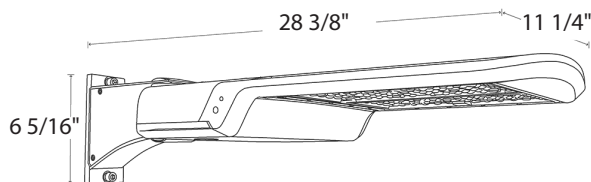
A17 70W-150W

Weight: 70W : 10.8 Lbs

100W : 11.2 Lbs

150W : 13.2 Lbs

150W : 12.3 Lbs (Slipfitter mount)

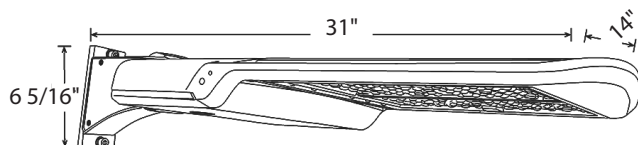


A17 200W-375W

Weight: 200W : 17.0 Lbs

300W : 18.2 Lbs

375W : 18.9 Lbs



A17 Ultra-Economy Floodlight

ACCESSORIES

	SKU#	UPC	DESCRIPTION
	RPCT	019813427430	TWISTLOCK PHOTOCELL 120-277V
	A17-RHS1	192552004473	REVERSIBLE HS SHIELD 70W-150W
	A17-RHS2	192552004480	REVERSIBLE HS SHIELD 200W-375W
	A17-SF-KIT	192552004459	SLIPFITTER KIT
	A17-ADJ-KIT	192552004442	UNIVERSAL ADJUSTABLE ARM KIT
	A17-WM	192552004466	WALL MOUNT KIT
	A17-MVS	192552006040	MICROWAVE SENSOR 0-10V DIM, MAX 15M MOUNT
	MVS-OD-REMOTE	192552026048	REMOTE CONTROL FOR MICROWAVE SENSOR IP20

A17 Ultra-Economy Floodlight



PERFORMANCE: A17 3-WAY FIELD ADJUSTABLE

A17XFU	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
Wattage	70W			100W			150W		
Input Watts	73.2W	69.8W	72.4W	106.5W	112.8W	106.5W	151.22W	145.84W	150.63W
Lumens	11,168	11,577	11,452	15,494	16,407	16,023	20,261	21,875.1	21,354.8
Lm/W	152.6	165.9	158.2	145.5	145.5	150.5	134.0	150.2	141.8
CRI	72	73	71	72	73	71	72	73	71
Voltage Ratings	120-277V								

PERFORMANCE: A17 FIELD ADJUSTABLE

A17 70W TYPE III	4000K	5000K	A17 100W TYPE III	4000K	5000K	A17 150W TYPE III	4000K	5000K
Wattage	70W	70W	Wattage	100W	100W	Wattage	150W	150W
Input Watts	69.84W	69.84W	Input Watts	98.98W	98.98W	Input Watts	149.08W	149.08W
Lumens	10147.7	10234.2	Lumens	14431.5	14533.3	Lumens	21317.5	21593.6
Lm/W	145.3	146.5	Lm/W	145.8	146.8	Lm/W	143.0	144.8
CRI	72	72	CRI	72	72	CRI	70	70
Voltage Ratings	120-277V		Voltage Ratings	120-277V		Voltage Ratings	120-277V	

A17 200W TYPE III	4000K	5000K
Wattage	200W	200W
Input Watts	200.25W	200.25W
Lumens	29419.8	29757
Lm/W	146.9	148.6
CRI	70	70
Voltage Ratings	120-277V	

A17 240W TYPE III	4000K	5000K
Wattage	240W	240W
Input Watts	240.79W	240.79W
Lumens	35174.5	35511.4
Lm/W	146.1	147.5
CRI	70	70
Voltage Ratings	120-277V	

A17 300W TYPE III	4000K	5000K
Wattage	300W	300W
Input Watts	299.44W	299.44W
Lumens	43953.8	44324
Lm/W	146.8	148.0
CRI	70	70
Voltage Ratings	120-277V	

A17 375W TYPE III	4000K	5000K
Wattage	375W	375W
Input Watts	371.21W	371.21W
Lumens	52985.9	53468.6
Lm/W	142.7	144
CRI	72	72
Voltage Ratings	120-277V	

A17 70W TYPE IV	4000K	5000K
Wattage	70W	70W
Input Watts	70.82W	70.82W
Lumens	9938.2	10055.1
Lm/W	140.3	142
CRI	70	70
Voltage Ratings	120-277V	

A17 100W TYPE IV	4000K	5000K
Wattage	100W	100W
Input Watts	97.56W	97.56W
Lumens	13822.3	13927.9
Lm/W	141.7	142.8
CRI	70	70
Voltage Ratings	120-277V	

A17 150W TYPE IV	4000K	5000K
Wattage	150W	150W
Input Watts	149.17W	149.17W
Lumens	21204.1	21377.7
Lm/W	142.1	143.3
CRI	70	70
Voltage Ratings	120-277V	

A17 Ultra-Economy Floodlight



PERFORMANCE: A17 (CONTINUED)

A17 200W TYPE IV	4000K	5000K
Wattage	200W	200W
Input Watts	200.05W	200.05W
Lumens	29214.4	29406.1
Lm/W	146.0	147.0
CRI	70	70
Voltage Ratings	120-277V	

A17 240W TYPE IV	4000K	5000K
Wattage	240W	240W
Input Watts	241.47W	241.47W
Lumens	34354.7	34725.4
Lm/W	142.3	143.8
CRI	70	70
Voltage Ratings	120-277V	

A17 300W TYPE IV	4000K	5000K
Wattage	300W	300W
Input Watts	299.87W	299.87W
Lumens	43592.1	44065.4
Lm/W	145.4	146.9
CRI	70	70
Voltage Ratings	120-277V	

A17 375W TYPE IV	4000K	5000K
Wattage	375W	375W
Input Watts	370.84W	370.84W
Lumens	51533.4	51005.1
Lm/W	139.0	137.5
CRI	72	72
Voltage Ratings	120-277V	

A17 70W TYPE V	4000K	5000K
Wattage	70W	70W
Input Watts	70.81W	70.81W
Lumens	9495.5	9384.7
Lm/W	134.1	132.5
CRI	70	70
Voltage Ratings	120-277V	

A17 100W TYPE V	4000K	5000K
Wattage	100W	100W
Input Watts	99.83W	99.83W
Lumens	13516.2	13382.1
Lm/W	135.4	134.0
CRI	70	70
Voltage Ratings	120-277V	

A17 150W TYPE V	4000K	5000K
Wattage	150W	150W
Input Watts	148.49W	148.49W
Lumens	19803.8	20022.3
Lm/W	133.4	134.8
CRI	70	70
Voltage Ratings	120-277V	

A17 200W TYPE V	4000K	5000K
Wattage	200W	200W
Input Watts	200.18W	200.18W
Lumens	27406.2	27707.3
Lm/W	136.9	138.4
CRI	70	70
Voltage Ratings	120-277V	

A17 240W TYPE V	4000K	5000K
Wattage	240W	240W
Input Watts	240.57W	240.57W
Lumens	32785.1	33166.1
Lm/W	136.3	137.9
CRI	70	70
Voltage Ratings	120-277V	

A17 300W TYPE V	4000K	5000K
Wattage	300W	300W
Input Watts	301.13W	301.13W
Lumens	40616.2	41099.9
Lm/W	134.9	136.5
CRI	70	70
Voltage Ratings	120-277V	

A17 375W TYPE V	4000K	5000K
Wattage	375W	375W
Input Watts	371.77W	371.77W
Lumens	48471.7	49015
Lm/W	130.4	131.8
CRI	72	72
Voltage Ratings	120-277V	

A17 Ultra-Economy Floodlight



PERFORMANCE : A17 FIELD ADJUSTABLE

A17 150W TYPE III	4000K	5000K
Wattage	150W	150W
Input Watts	145.91W	145.91W
Lumens	21,474.5	21,730.4
Lm/W	147.18	148.94
CRI	72	72
Voltage Ratings	480V	

A17 150W TYPE IV	4000K	5000K
Wattage	150W	150W
Input Watts	145.96W	145.96W
Lumens	21,319.7	21,554.7
Lm/W	146.07	147.48
CRI	72	73
Voltage Ratings	480V	

A17 150W TYPE V	4000K	5000K
Wattage	150W	150W
Input Watts	146.09W	146.09W
Lumens	19,770	19,971.7
Lm/W	135.33	136.71
CRI	72	73
Voltage Ratings	480V	

A17 240W TYPE III	4000K	5000K
Wattage	240W	240W
Input Watts	231.03W	231.03W
Lumens	34,680.5	34,952.7
Lm/W	150.11	151.29
CRI	72	73
Voltage Ratings	480V	

A17 240W TYPE IV	4000K	5000K
Wattage	240W	240W
Input Watts	230.81W	230.81W
Lumens	34,255.71	34,572.4
Lm/W	148.41	149.79
CRI	72	73
Voltage Ratings	480V	

A17 240W TYPE V	4000K	5000K
Wattage	240W	240W
Input Watts	231.02W	231.02W
Lumens	32,350.5	32,603.4
Lm/W	140.04	141.13
CRI	72	73
Voltage Ratings	480V	

A17 300W TYPE III	4000K	5000K
Wattage	300W	300W
Input Watts	295.6W	295.6W
Lumens	44,295.7	44,729.4
Lm/W	149.85	151.32
CRI	72	73
Voltage Ratings	480V	

A17 300W TYPE IV	4000K	5000K
Wattage	300W	300W
Input Watts	296.13W	296.13W
Lumens	43,017.5	43,361
Lm/W	145.27	146.43
CRI	72	73
Voltage Ratings	480V	

A17 300W TYPE V	4000K	5000K
Wattage	300W	300W
Input Watts	295.7W	295.7W
Lumens	41,325.8	41,803.7
Lm/W	139.76	141.37
CRI	72	73
Voltage Ratings	480V	

A17 375W TYPE III	4000K	5000K
Wattage	375W	375W
Input Watts	379.32W	379.32W
Lumens	54,552.6	55,041.2
Lm/W	143.82	145.11
CRI	72	73
Voltage Ratings	480V	

A17 375W TYPE IV	4000K	5000K
Wattage	375W	375W
Input Watts	379.65W	379.65W
Lumens	53,202.3	53,742.1
Lm/W	140.14	141.56
CRI	72	73
Voltage Ratings	480V	

A17 375W TYPE V	4000K	5000K
Wattage	375W	375W
Input Watts	379.3W	379.3W
Lumens	50,048.9	50,561.9
Lm/W	131.95	133.3
CRI	72	73
Voltage Ratings	480V	

A17 Ultra-Economy Floodlight



ORDERING MATRIX

A17

Family	Distribution Type	Wattage/Lumens	Mounting	Color Temperature	Voltage Rating	Options
A17						
	3T Type III	70 70W/10,000Lm	BLANK Universal	BLANK 5000K	BLANK 120-277V	BLANK No Option
	4T Type IV	100 100W/15,000Lm	1 SF Pole Mount	N 4000K	2/480 480V	/3PRS 3-pin Receptacle with Shorting Cap
	5T Type V	150 150W/22,500Lm				/7PRS 7-pin Receptacle with Shorting Cap
		200 200W/30,000Lm				/MVS Microwave Motion Sensor /Lightcloud Controller
		240 240W/36,000Lm				
		300 300W/45,000Lm				
		375 375W/51,800Lm				

¹ Slipfitter Mount available on 150W only

Type II distribution available as special order

Wall mount and adjustable universal pole mount available as optional field-installed accessories

² 480V driver available standard on 150W and 300W and by special order on 100, 240 and 375W. Not available on 70W or 200W models.

A17XFU

Family	Wattage	Option
A17XFU	150	
	150 70/100/150W	BLANK No option /LC Lightcloud Controller

A17XFU comes standard with Adjustable Universal Pole Mount, 7-Pin Receptacle with Shorting Cap



Report No.:
BLC2103014E4-AA-CP

LM-79-08 Test Report

For

RAB LIGHTING INC. **(Brand Name: RAB LIGHTING)**

170 Ludlow Ave. Northvale, NJ, 07647

Outdoor Pole/Arm-Mounted Area and Roadway Luminaires **Architectural Flood and Spot Luminaires**

Model name(s): A17-5T70x
Remark: N/A

Representative (Tested) Model:
A17-5T70Y
A17-5T70Z

Model Different: All construction and rating are the same, except CCT

Test & Report By:

Sophie Yang

Engineer: Sophie Yang

Date: 2021-08-29

Review By:

Jason Luo

Manager: Jason Luo

This is multiple listing report, the original report No. is BLC2103014E4-AA



Report No.:
BLC2103014E4-AA-CP

1.1 Product Information:

Organization Name	RAB LIGHTING INC.	
Brand Name	RAB LIGHTING	
Model Number	A17-5T70x	
SKU (if available)	N/A	
Type of Luminaire (for integral lamps, list base type and lamp type)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires Architectural Flood and Spot Luminaires	
Rated Voltage / Frequency	120-277Vac, 50/60 Hz	
Nominal Power	70W	
Rated Initial Lamp Lumen	--	
Declared CCT	3000K, 4000K, 5000K, 5700K	
LED Manufacturer	Bridgelux Inc.	
LED Model	BXEM-30C-12H-6C	
Sample Number	BLC2103014E4-AA1(3000K),AA2(5700K)	
Luminaire Aperture (for downlights)	--	in.
Luminaire Length	--	mm
Luminaires Width	--	mm
Number of Units (modular products)	N/A	s
Photo		
		



Report No.:
BLC2103014E4-AA-CP

1.2 Test Specifications:

Date of Receipt	2021-05-10
Date of Test	2021-05-13
Test item	1. Total Luminous Flux 2. Luminous Distribution Intensity 3. Luminous Efficacy 4. Correlated Color Temperature 5. Color Rendering Index 6. Chromaticity Coordinate 7. Electrical Parameters
Reference Standard	1. IES LM-79-2008 Electrical and Photometric Measurements of Solid-State Lighting Products 2. ANSI C78.377-2008 Specifications for the Chromaticity of Solid State Lighting Products 3. CIE 13.3-1995 Method of Measuring and Specifying Colour Rendering Properties of Light Sources 4. CIE 15-2004 Technical Report Colorimetry 5. IESNA LM-16-93 Practical Guide to Colorimetry of Light Source 6. IESNA TM-16-05 Technical Memorandum on Light Emitting Diode (LED) Sources and Systems
Reference Work Instruction	BL-QP-033

1.3 Test Methods

1) Photometric and Light Distribution Measurement – Goniophotometer Method:

Photometric parameters were measured using the goniophotometer and software. The ambient temperature shall be maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$, measured at a point not more than 1 m from the sample and at the same height as the sample. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 1° vertical intervals and 22.5° horizontal intervals.

2) Chromaticity Measurement – Sphere-Spectroradiometer Method:

Chromaticity parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral power distribution taken at 5 nm intervals over the range of 380 to 780 nm.

3) Electrical Measurements:

Electrical parameters were measured using power meters incorporated in goniophotometer or sphere-spectroradiometer system. The ambient temperature surrounding the sample was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Voltage, frequency, current, power, power factor and total harmonic distortion were measured by and read from the power meter.



Report No.:
BLC2103014E4-AA-CP

2.1 Electrical, Photometric and Chromaticity Measurements

(Refer to Work Instruction BL-QP-033)

Test date	2021-05-13	Test Ambient:	25.2 °C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	A17-5T70Y		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
BLC210301	120.0	60	0.591	70.57	0.995	3.17
4E4-AA1	277.0	60	0.271	68.94	0.917	13.23
DLC Pass Criteria					>= 0.9(-3%)	<= 20(+5)

Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	69	R9	-33
Frequency (Hz)	60	R2	82	R10	60
CCT (K)	2975	R3	94	R11	65
Duv	-0.0004	R4	69	R12	52
Chromaticity (x, y)	x=0.4381 y=0.4034	R5	69	R13	71
Chromaticity (u', v')	u(u')=0.2516 v'=0.5213	R6	76	R14	97
Color Rendering Index (CRI)	72	R7	76	R15	61
R9	-33	R8	43	--	--
Rf	75	--	--	--	--
Rg	95	--	--	--	--
Rcs,h1(%)	-16				

Photometric Measurement – Goniophotometer Method:

Parameter	Result		DLC V5.1 Pass Criteria
Test Voltage (V)	120.0	277.0	--
Frequency (Hz)	60	60	
Total Luminous (lm)	9251.7	9063.5	>=10000(-10%)
Luminous Efficacy (lm/W)	131.10	131.47	Premium: >= 120(-3%)
Most worst Luminous/Highest	128.43		
Zonal lumens in the 0-90 °zone (%)	100	--	Category 1: >=100(-1) Category 2: >=85(-3)
Zonal lumens in the 80-90 °zone (%)	6.4	--	<=10(+3)
Beam Angle (°)	157.5	--	--
Center Beam Candle Power (cd)	1298	--	--

Laboratory: Belling Test Laboratory Co., LTD A2LA Certificate# 4810.01

Unit 401, No. 309 Xinxin Seven Road, Zengcheng District,

Guangzhou, People's Republic of China engineer@etk-utest.com

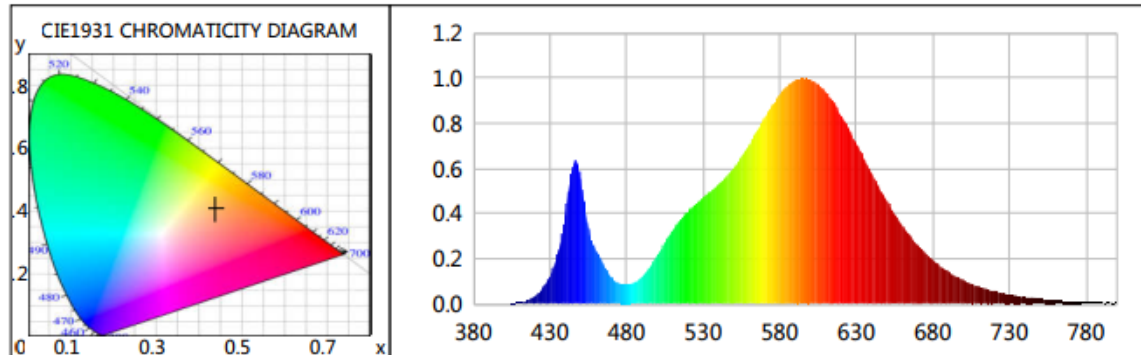
Report Format Number BL-FM-SA-012



Certificate#4810.01

Report No.:
BLC2103014E4-AA-CP

Spectral Power Distribution & Chromaticity Diagram



WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0001	0.0240	525	0.4411	84.2486	670	0.2596	49.5888
385	0.0006	0.1124	530	0.4685	89.4848	675	0.2235	42.6866
390	0.0006	0.1179	535	0.4982	95.1631	680	0.1938	37.0199
395	0.0002	0.0303	540	0.5282	100.8908	685	0.1660	31.6999
400	0.0006	0.1139	545	0.5614	107.2296	690	0.1422	27.1624
405	0.0019	0.3549	550	0.6025	115.0746	695	0.1214	23.1862
410	0.0060	1.1380	555	0.6508	124.3004	700	0.1039	19.8398
415	0.0147	2.7987	560	0.7061	134.8584	705	0.0880	16.8035
420	0.0336	6.4088	565	0.7646	146.0288	710	0.0754	14.3927
425	0.0670	12.7949	570	0.8218	156.9687	715	0.0641	12.2381
430	0.1252	23.9058	575	0.8803	168.1240	720	0.0550	10.5031
435	0.2203	42.0752	580	0.9287	177.3773	725	0.0467	8.9247
440	0.3955	75.5308	585	0.9652	184.3455	730	0.0394	7.5308
445	0.6131	117.0947	590	0.9896	189.0071	735	0.0330	6.3086
450	0.5548	105.9550	595	0.9990	190.8056	740	0.0289	5.5109
455	0.3322	63.4540	600	0.9937	189.7846	745	0.0251	4.7950
460	0.2368	45.2368	605	0.9723	185.7071	750	0.0217	4.1508
465	0.1741	33.2438	610	0.9395	179.4337	755	0.0187	3.5684
470	0.1152	22.0068	615	0.8934	170.6328	760	0.0161	3.0659
475	0.0921	17.5931	620	0.8366	159.7797	765	0.0130	2.4901
480	0.0873	16.6688	625	0.7759	148.1984	770	0.0119	2.2751
485	0.0935	17.8516	630	0.7095	135.5055	775	0.0089	1.7082
490	0.1184	22.6090	635	0.6429	122.7924	780	0.0081	1.5391
495	0.1615	30.8434	640	0.5776	110.3132	785	0.0063	1.2073
500	0.2141	40.8950	645	0.5133	98.0309	790	0.0072	1.3728
505	0.2691	51.3947	650	0.4529	86.5069	795	0.0046	0.8845
510	0.3242	61.9278	655	0.3973	75.8800	800	0.0050	0.9629
515	0.3703	70.7186	660	0.3474	66.3457			
520	0.4098	78.2669	665	0.3013	57.5531			

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TM30

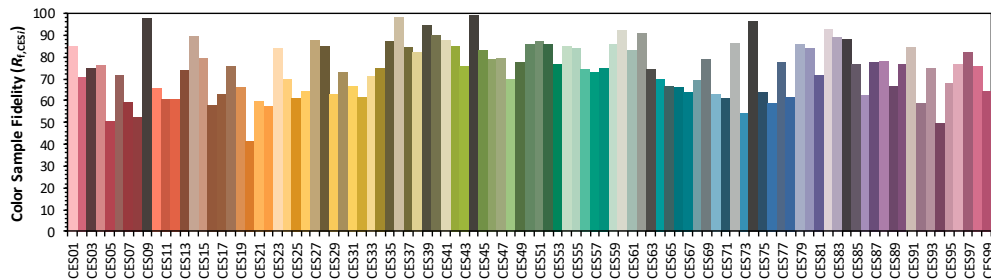
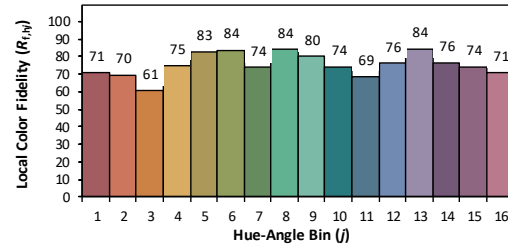
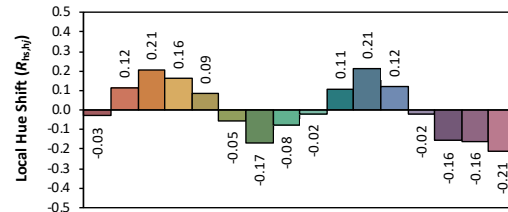
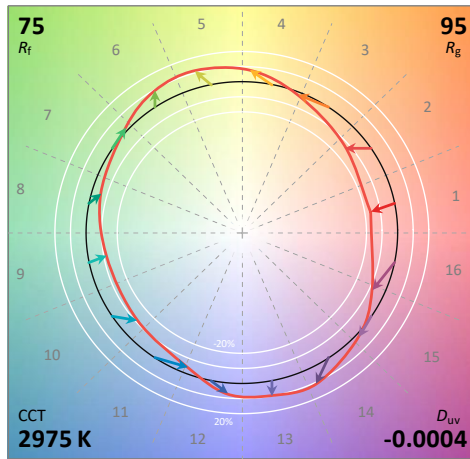
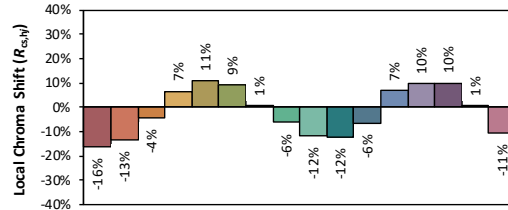
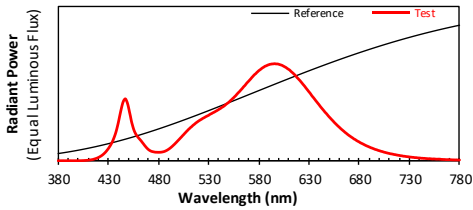
ANSI/IES TM-30-18 Color Rendition Report

Source: BXEM-30C-12H-6C

Manufacturer: RAB LIGHTING INC.

Date: 2021/5/13

Model: A17-5T70Y



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

x 0.4381
 y 0.4034
 u' 0.2516
 v' 0.5213

CIE 13.3-1995
(CRI)

R_a 72
 R_9 -33

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.



Certificate#4810.01

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Zonal Lumen Tabulation

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	1,201.3	13%	13%
0-40	2,198.9	23.8%	23.8%
0-60	5,017.5	54.2%	54.2%
60-90	4,234.3	45.8%	45.8%
70-100	2,444.1	26.4%	26.4%
90-120	0	0%	0%
0-90	9,251.8	100%	100%
90-180	0	0%	0%
0-180	9,251.8	100%	100%

Lumens Per Zone

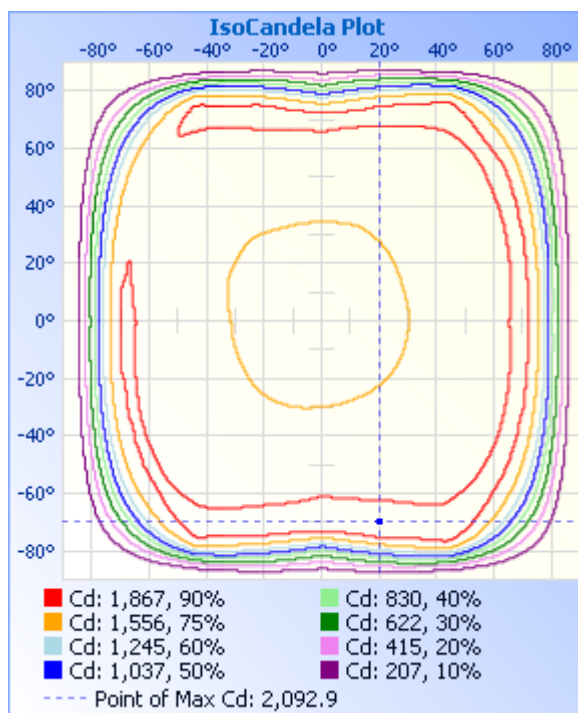
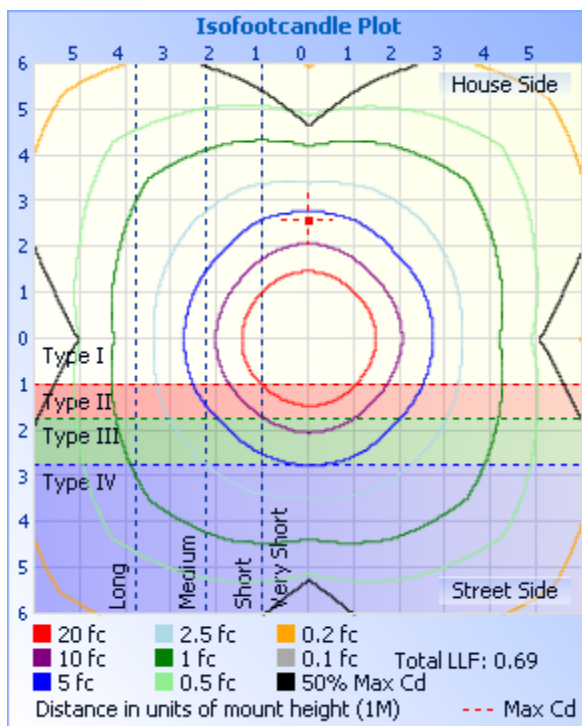
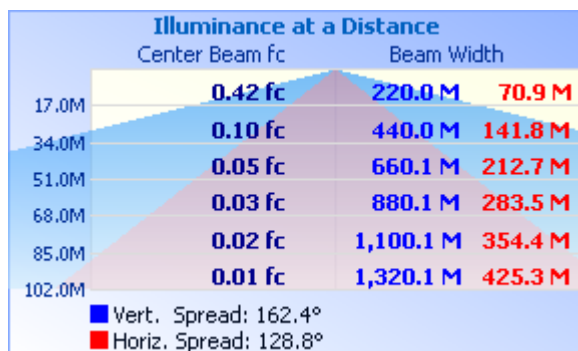
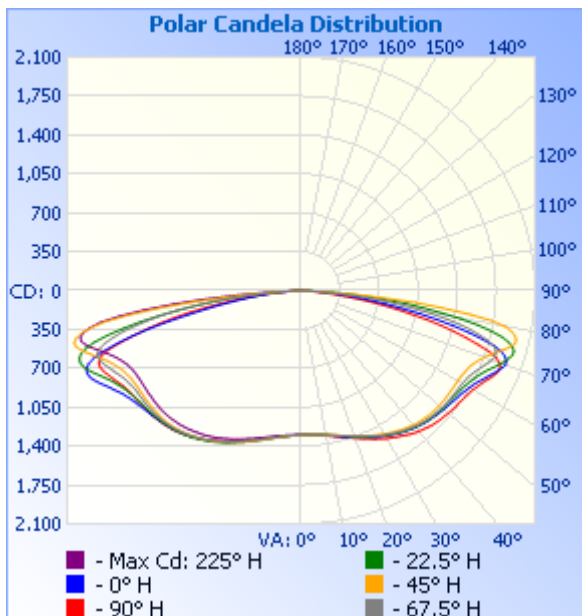
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	125.5	1.4%	90-100	0	0%
10-20	390.4	4.2%	100-110	0	0%
20-30	685.5	7.4%	110-120	0	0%
30-40	997.6	10.8%	120-130	0	0%
40-50	1,289.3	13.9%	130-140	0	0%
50-60	1,529.3	16.5%	140-150	0	0%
60-70	1,790.2	19.3%	150-160	0	0%
70-80	1,850.3	20.0%	160-170	0	0%
80-90	593.8	6.4%	170-180	0	0%



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Photometric Data





Certificate#4810.01

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Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	1298	1298	1298	1298	1298	1298	1298	1298	1298	1298	1298	1298	1298	1298	1298	1298	1298
1	1297	1297	1298	1297	1298	1298	1299	1299	1299	1300	1301	1299	1300	1298	1299	1298	1297
2	1297	1298	1297	1296	1297	1299	1301	1302	1301	1303	1303	1301	1302	1299	1299	1298	1297
3	1298	1298	1298	1297	1299	1300	1302	1302	1305	1306	1306	1303	1305	1302	1301	1299	1298
4	1300	1300	1299	1297	1301	1301	1305	1304	1308	1309	1310	1307	1307	1305	1303	1301	1300
5	1302	1301	1299	1299	1302	1304	1308	1308	1311	1314	1313	1312	1310	1308	1306	1303	1302
6	1305	1303	1302	1300	1306	1308	1312	1313	1316	1318	1320	1317	1314	1313	1308	1306	1305
7	1308	1306	1304	1303	1309	1313	1317	1318	1321	1325	1325	1323	1320	1317	1314	1309	1308
8	1311	1309	1308	1305	1313	1318	1323	1323	1327	1330	1331	1327	1325	1321	1318	1316	1311
9	1317	1313	1311	1311	1318	1323	1328	1330	1334	1337	1338	1334	1330	1328	1325	1321	1317
10	1322	1319	1316	1316	1325	1329	1333	1336	1341	1344	1345	1342	1337	1335	1330	1327	1322
11	1329	1324	1320	1321	1332	1336	1340	1345	1349	1352	1353	1348	1345	1342	1337	1333	1329
12	1335	1331	1327	1327	1337	1343	1348	1353	1357	1360	1362	1357	1353	1350	1345	1338	1335
13	1343	1337	1334	1334	1345	1350	1357	1361	1365	1369	1371	1365	1362	1358	1351	1348	1343
14	1349	1344	1339	1341	1353	1360	1365	1370	1374	1381	1380	1374	1371	1367	1360	1355	1349
15	1356	1352	1348	1349	1362	1368	1374	1378	1385	1391	1390	1384	1380	1377	1369	1363	1356
16	1366	1360	1355	1357	1371	1378	1384	1387	1396	1400	1400	1394	1390	1386	1378	1372	1366
17	1375	1367	1363	1365	1380	1388	1393	1398	1407	1412	1411	1403	1399	1398	1388	1381	1375
18	1384	1378	1372	1375	1390	1399	1402	1408	1416	1423	1423	1415	1410	1408	1399	1390	1384
19	1393	1386	1383	1383	1400	1409	1414	1420	1428	1435	1434	1426	1422	1419	1409	1399	1393
20	1402	1397	1390	1393	1413	1420	1425	1430	1440	1446	1446	1437	1432	1429	1418	1409	1402
21	1412	1406	1400	1404	1422	1432	1435	1441	1452	1460	1459	1448	1445	1441	1430	1418	1412
22	1423	1417	1410	1414	1436	1443	1446	1453	1465	1471	1469	1461	1457	1455	1441	1428	1423
23	1434	1427	1420	1424	1448	1454	1455	1464	1478	1483	1482	1475	1470	1465	1452	1437	1434
24	1445	1438	1430	1435	1459	1465	1467	1476	1490	1496	1494	1486	1481	1479	1464	1448	1445
25	1455	1449	1440	1446	1470	1478	1478	1488	1502	1509	1505	1497	1495	1490	1473	1457	1455
26	1465	1460	1450	1457	1485	1490	1489	1497	1516	1520	1516	1511	1506	1503	1484	1469	1465
27	1475	1470	1460	1467	1497	1503	1499	1510	1527	1533	1528	1522	1520	1516	1495	1479	1475
28	1487	1481	1469	1478	1509	1515	1511	1522	1540	1546	1540	1535	1532	1528	1505	1490	1487

Laboratory: Belling Test Laboratory Co., LTD A2LA Certificate# 4810.01

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31	1517	1513	1500	1509	1546	1553	1542	1553	1574	1582	1575	1571	1570	1564	1538	1518	1517
32	1528	1523	1508	1519	1557	1563	1554	1564	1585	1593	1585	1582	1583	1578	1546	1527	1528
33	1538	1534	1518	1530	1569	1575	1563	1574	1596	1604	1595	1593	1596	1590	1556	1535	1538
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35	1559	1555	1536	1549	1592	1597	1582	1593	1619	1625	1615	1616	1621	1614	1573	1553	1559
36	1570	1564	1544	1560	1605	1609	1589	1602	1630	1638	1625	1624	1632	1626	1579	1561	1570
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52	1676	1659	1618	1651	1731	1710	1657	1698	1759	1744	1701	1722	1751	1732	1650	1636	1676
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56	1703	1676	1619	1658	1750	1718	1660	1716	1797	1767	1703	1728	1767	1739	1652	1650	1703
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81	774	1276	1742	1057	617	1013	1635	1081	621	1101	1786	1128	725	1144	1826	1318	774
82	646	1105	1532	898	485	852	1400	903	519	933	1562	963	600	999	1651	1147	646
83	532	941	1278	740	366	690	1158	758	421	777	1287	792	469	831	1419	971	532
84	418	748	1041	575	266	534	860	591	336	623	997	630	364	678	1149	783	418
85	320	573	738	416	179	380	582	460	254	479	703	471	258	502	879	617	320
86	229	430	485	272	110	219	371	331	174	341	459	313	167	354	579	458	229
87	153	280	243	141	58	122	171	193	108	219	245	161	104	205	341	309	153
88	80	141	85	55	11	22	45	80	44	102	79	75	52	98	145	170	80
89	19	21	20	8	10	10	12	10	8	10	16	12	12	19	35	46	19
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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BUG Rating

Lum. Classification System (LCS)

<u>LCS Zone</u>	<u>Lumens</u>	<u>%Lamp</u>	<u>%Lum</u>
FL (0-30)	595.4	6.4	6.4
FM (30-60)	1883.0	20.4	20.4
FH (60-80)	1803.1	19.5	19.5
FVH(80-90)	316.6	3.4	3.4
BL (0-30)	605.9	6.5	6.5
BM (30-60)	1933.8	20.9	20.9
BH (60-80)	1836.9	19.9	19.9
BVH(80-90)	277.1	3.0	3.0
UL (90-100)	0.0	0.0	0.0
UH (100-180)	0.0	0.0	0.0
Total	9251.8	100.0	100.0

BUG Rating **B3-U0-G3**



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2.2 Electrical, Photometric and Chromaticity Measurements

(Refer to Work Instruction BL-QP-033)

Test date	2021-05-13	Test Ambient:	25.2 °C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	A17-5T70Z		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
BLC210301	120.0	60	0.595	71.05	0.995	3.26
4E4-AA2	277.0	60	0.273	69.36	0.917	13.47
DLC Pass Criteria					>= 0.9(-3%)	<= 20(+5)

Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	70	R9	-33
Frequency (Hz)	60	R2	77	R10	47
CCT (K)	5447	R3	83	R11	73
Duv	0.0024	R4	74	R12	47
Chromaticity (x, y)	x=0.3337 y=0.3468	R5	72	R13	71
Chromaticity (u', v')	u(u')=0.2056 v'=0.4806	R6	70	R14	90
Color Rendering Index (CRI)	73	R7	81	R15	64
R9	-33	R8	57	--	--
Rf	74	--	--	--	--
Rg	95	--	--	--	--
Rcs,h1(%)	-18				

Photometric Measurement – Sphere-Spectroradiometer Method:

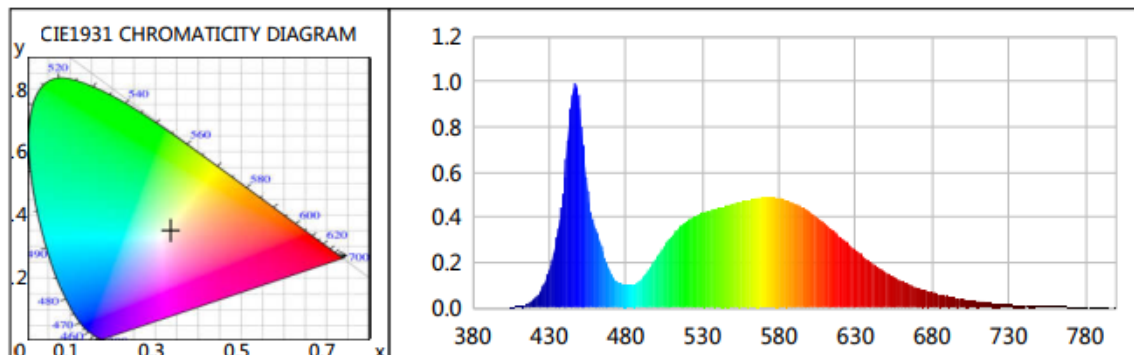
Parameter	Result		DLC V5.1 Pass Criteria
Test Voltage (V)	120.0	277.0	--
Frequency (Hz)	60	60	
Total Luminous (lm)	9650.7	9439.9	>=10000(-10%)
Luminous Efficacy (lm/W)	135.83	136.10	Premium: >= 120(-3%)
Most worst Luminous/Highest Watts	132.86		



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Spectral Power Distribution & Chromaticity Diagram



WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0000	0.0151	525	0.4046	132.9912	670	0.0896	29.4410
385	0.0003	0.1038	530	0.4187	137.6342	675	0.0775	25.4744
390	0.0003	0.0873	535	0.4303	141.4635	680	0.0675	22.1796
395	0.0006	0.1848	540	0.4412	145.0351	685	0.0574	18.8637
400	0.0009	0.3051	545	0.4487	147.5072	690	0.0504	16.5830
405	0.0021	0.6963	550	0.4583	150.6468	695	0.0429	14.1068
410	0.0063	2.0630	555	0.4673	153.6182	700	0.0363	11.9464
415	0.0162	5.3405	560	0.4757	156.3742	705	0.0307	10.1075
420	0.0384	12.6281	565	0.4829	158.7479	710	0.0265	8.6953
425	0.0825	27.1164	570	0.4873	160.1725	715	0.0225	7.3930
430	0.1665	54.7435	575	0.4883	160.5193	720	0.0196	6.4292
435	0.3120	102.5700	580	0.4846	159.3103	725	0.0165	5.4249
440	0.5829	191.6032	585	0.4758	156.4197	730	0.0143	4.6949
445	0.9452	310.7101	590	0.4623	151.9614	735	0.0115	3.7770
450	0.8851	290.9528	595	0.4448	146.2243	740	0.0108	3.5360
455	0.5137	168.8600	600	0.4250	139.7017	745	0.0094	3.1005
460	0.3519	115.6844	605	0.3997	131.3962	750	0.0078	2.5750
465	0.2496	82.0616	610	0.3717	122.1950	755	0.0065	2.1326
470	0.1534	50.4247	615	0.3433	112.8403	760	0.0051	1.6645
475	0.1136	37.3432	620	0.3141	103.2608	765	0.0048	1.5768
480	0.1020	33.5142	625	0.2837	93.2708	770	0.0044	1.4542
485	0.1028	33.7804	630	0.2549	83.7783	775	0.0035	1.1520
490	0.1250	41.0857	635	0.2266	74.4779	780	0.0030	0.9991
495	0.1675	55.0724	640	0.2011	66.1101	785	0.0013	0.4246
500	0.2191	72.0361	645	0.1769	58.1646	790	0.0025	0.8369
505	0.2694	88.5688	650	0.1557	51.1847	795	0.0019	0.6397
510	0.3169	104.1626	655	0.1360	44.7068	800	0.0020	0.6660
515	0.3555	116.8570	660	0.1188	39.0660			
520	0.3838	126.1554	665	0.1030	33.8689			

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TM30

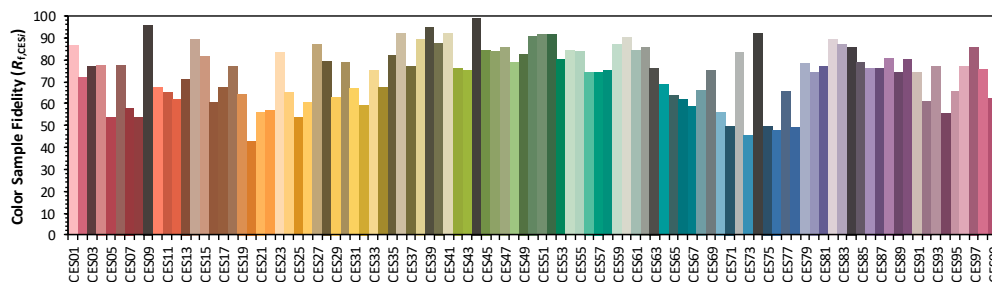
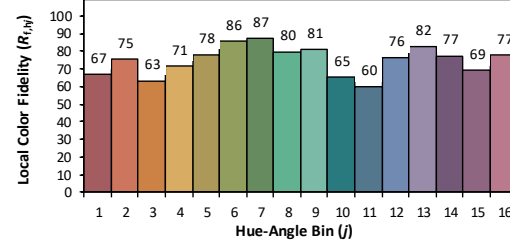
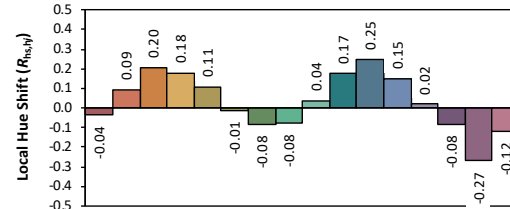
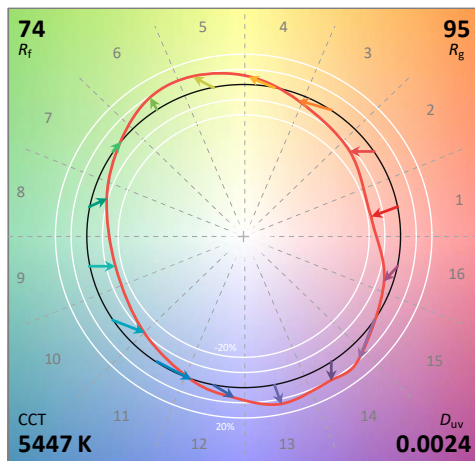
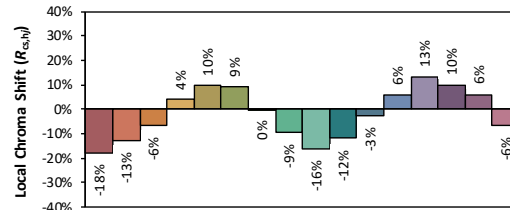
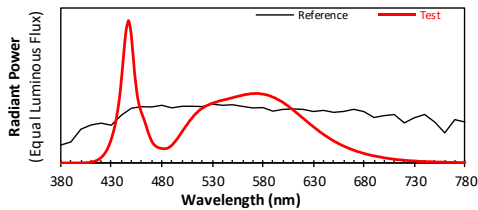
ANSI/IES TM-30-18 Color Rendition Report

Source: BXEM-30C-12H-6C

Manufacturer: RAB LIGHTING INC.

Date: 2021/5/13

Model: A17-5T70Z



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

x 0.3337
 y 0.3468
 u' 0.2056
 v' 0.4806

CIE 13.3-1995
(CRI)

R_a 73
 R_9 -33

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

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Calculated Efficacy Data for family models:

Model Number	Luminous Flux (lm)	Power (W)	Efficacy (lm/W)
A17-5T70Y	9251.7	70.57	131.1
A17-5T70N	9351.5	70.81	132.06
A17-5T70	9451.2	70.93	133.25
A17-5T70Z	9650.7	71.05	135.83

*1: This value is calculated and the calculation formula is as below:

$$9351.5 = (9650.7 - 9251.7) / 4 + 9251.7$$

$$9451.2 = (9650.7 - 9251.7) / 4 + 9351.5$$

*2: This value is calculated and the calculation formula is as below:

$$70.81 = (71.05 + 70.57) / 2$$

$$70.93 = (71.05 + 70.81) / 2$$

*3: This value is calculated and the calculation formula is as below:

$$132.06 = 9351.5 / 70.81$$

$$133.25 = 9451.2 / 70.93$$



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3. Test Equipment

Equipment Name	Model No.	Serial No.	Next Calibration Date
Goniophotometric System	GPM-3000	DYHXF120001	2022-01-18
AC Power Source	CHP-500	DYBWD010159	2022-01-25
Total Luminous Flux Standard Lamp	24V/150W	DYJYR040040	2022-01-24
Digital Power Meter	WT500	DYDWQ20010	2022-01-25
Integral Sphere (2M)	2M	DYJCE120067	2022-01-18
Digital Power Meter	WT500	DYDWQ20006	2022-01-25
Optical Color and Electrical Measurement System	CMS-3000S	DYJCE120067	2022-01-18
Expand Uncertainty: Photometric Measurement (Sphere): 2.08%, k=2 Chromaticity Measurement(Sphere):25.6K, k=2 Photometric Measurement(Goniophotometer):2.645%, k=2			

******* END OF REPORT *******