LUMINAIRE Galarneau

Specification

PROJET: LES MAGASINS CPC
MODÈLE: H-TR015-36-4040-UU
PROJECTEUR
36W NOIR TYPE H ADAPTEUR 4000°K

PRODUCT MODEL #: X-TR015-36-YYZZ-UU

PRODUCT NAME: 1LED 36W WATER-DROP TRACK LIGHT

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GENERAL GUIDELINES

Products Description

Precise and variable accent lighting in the shop and retail sector. The water-drop design inspired by Action Movie Star Bruce Lee's "BE LIKE WATER". The water-drop design is unique and patented, which it's beautiful and self-cleaning. Nearly 50% energy saving compare to ceramic metal halide thanks to the high efficacy over 90lm per watt. CRI82 and CRI95 options and within 4-step MacAdam ellipses offer high quality lights for high end application.

ETL,DLC, RoHS compliant.

Characteristics

- Input Power(W): 36W
- Input Voltage(VAC): 100-277V

- Power Factor: 0.95
- Base: 3wire 1circuit
- Optional Beam Angle(°): 24°, 40°, 60°
- Dimming: Non-dimmable
- Lifespan (hrs): 50,000hr
- Lumen Output & CRI:

CCT (K)	**Lumen Output @CRI 82** (lm)	**Lumen Output @CRI 95** (lm)
2700	3909	3112
3000	4005	3325
4000	4112	3503
5000	4240	3673

- Finish Color:

Matt White	**Matt Black**	**Matt Silver**	**Texture White**	**Texture Black**	**Bright White**	**Others**
X	X	X				

Features

- ✓ Interchangeable Beam: 24°, 40°, 60°
- ✓ CAMETA anti-glare design and with shielding angle to reduce wide beam angle glare lights
- ✓ High efficacy: >110lm/W
- ✓ Integral driver, isolated circuit
- ✓ Passive cooling achieved by innovative thermal design
- ✓ 350°rotation (horizontal), 90° adjustable(vertical)
- ✓ Self-cleaning thanks to the water drop shape

OPTICAL & LED

Integrating Sphere

.Data sheet below measured by EVERFINE HAAS-1200 according to CIE 1931. At Ta=25°C, initial testing.

- 3000K CRI82 Integrating Sphere Test Reports

Color Parameters:

Chromaticity Coordinate:x=0.4424 y=0.4086/u'=0.2521 v'=0.5240

CCT=2947K(Duv=0.0011) Dominant WL:Ld =582.7nm Purity=55.4%

Ratio:R=23.3% G=74.5% B=2.2% Peak WL:Lp=607.7nm FWHM=134.5nm

Render Index:Ra=83.3

R1 =81 R2 =89 R3 =97 R4 =83 R5 =81 R6 =87 R7 =85

R8 =63 R9 =14 R10=76 R11=82 R12=70 R13=83 R14=98 R15=75

Photometric

Data sheet below measured by sensing GMS-1800 according to CIE or IESNA. At Ta=35°C, initial testing.

Claimed Beam Angle(°)	**24**	**40**	**60**
Measured Beam(°)	27.7	35.8	54.6
CBCP @3000K Ra82(cd)	12547	8258	6421

- 3000K CRI82 24° Photometric Test Reports

A:Light Distribution Curve

B:LUX Distance Curve

C:UGR Glare

UGR Glare

Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	18.31	19.27	18.79	19.71	20.17	18.07	19.03	18.55	19.47	19.93
	3H	19.35	20.20	19.84	20.65	21.16	19.12	19.97	19.61	20.43	20.94
	4H	19.59	20.38	20.10	20.85	21.38	19.37	20.16	19.88	20.63	21.16
	6H	19.69	20.42	20.21	20.90	21.44	19.48	20.21	20.00	20.69	21.23
	8H	19.70	20.39	20.24	20.89	21.43	19.50	20.18	20.03	20.69	21.22
	12H	19.74	20.39	20.27	20.89	21.46	19.54	20.19	20.07	20.69	21.26
4H	2H	18.69	19.48	19.20	19.95	20.48	18.45	19.24	18.96	19.71	20.24
	3H	19.85	20.50	20.37	21.02	21.57	19.62	20.28	20.14	20.79	21.34
	4H	20.15	20.74	20.69	21.27	21.85	19.93	20.52	20.47	21.05	21.63
	6H	20.25	20.78	20.84	21.34	21.94	20.04	20.57	20.63	21.13	21.73
	8H	20.30	20.78	20.88	21.34	21.94	20.10	20.57	20.67	21.13	21.73
	12H	20.35	20.77	20.94	21.36	21.97	20.15	20.57	20.74	21.15	21.76
8H	4H	20.17	20.65	20.75	21.20	21.81	19.96	20.44	20.53	20.99	21.60
	6H	20.35	21.20	20.96	21.35	21.96	20.15	20.99	20.75	21.14	21.75
	8H	20.42	20.78	21.05	21.39	22.02	20.22	20.57	20.84	21.19	21.82
	12H	21.20	21.51	21.81	22.47	22.81	20.99	21.31	21.61	22.26	22.60
12H	4H	20.13	20.55	20.72	21.13	21.74	19.92	20.34	20.50	20.92	21.53
	6H	20.64	20.67	20.95	21.25	21.92	20.44	20.47	20.74	21.04	21.72
	8H	20.42	20.73	21.03	21.32	22.02	20.22	20.53	20.83	21.12	21.83
Variation with the observer position at spacings:											
S = 1.0H		1.3/-0.8					1.4/-0.8				
S = 1.5H		2.3/-1.3					2.5/-1.3				
S = 2.0H		4.2/-1.8					4.3/-1.7				
Standard tables:		BK2					BK2				
Uncorrected UGR		2.8					3.0				

- 3000K CRI82 40° Photometric Test Reports

A:Light Distribution Curve

B:LUX Distance Curve

Lux distance Curve

Max , Ave Beam angle of C300 plane 36.95

C:UGR Glare

UGR Glare

Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	16.76	17.70	17.25	18.15	18.63	16.68	17.62	17.17	18.06	18.55
	3H	17.97	18.79	18.47	19.26	19.79	17.96	18.78	18.46	19.25	19.78
	4H	18.31	19.08	18.84	19.57	20.11	18.33	19.10	18.86	19.58	20.13
	6H	18.51	19.21	19.04	19.72	20.27	18.50	19.21	19.04	19.71	20.26
	8H	18.53	19.20	19.08	19.72	20.27	18.52	19.19	19.07	19.70	20.26
	12H	18.54	19.18	19.09	19.69	20.27	18.53	19.17	19.08	19.68	20.26
4H	2H	17.12	17.89	17.64	18.37	18.92	17.05	17.82	17.58	18.30	18.85
	3H	18.49	19.13	19.03	19.66	20.22	18.55	19.18	19.08	19.71	20.27
	4H	18.90	19.47	19.45	20.01	20.61	19.00	19.57	19.55	20.11	20.71
	6H	19.11	19.62	19.71	20.19	20.81	19.16	19.68	19.77	20.24	20.86
	8H	19.18	19.64	19.77	20.21	20.83	19.22	19.68	19.80	20.24	20.86
	12H	19.19	19.59	19.79	20.19	20.82	19.23	19.63	19.83	20.23	20.86
8H	4H	18.96	19.42	19.54	19.98	20.60	19.05	19.51	19.63	20.07	20.70
	6H	19.31	20.19	19.92	20.29	20.92	19.28	20.17	19.90	20.27	20.90
	8H	19.41	19.75	20.04	20.37	21.02	19.35	19.69	19.99	20.32	20.96
	12H	20.04	20.34	20.66	21.35	21.66	20.00	20.30	20.63	21.32	21.63
12H	4H	18.92	19.32	19.52	19.92	20.55	19.01	19.41	19.61	20.01	20.64
	6H	19.58	19.63	19.93	20.22	20.91	19.54	19.59	19.89	20.18	20.87
	8H	19.43	19.73	20.06	20.34	21.05	19.36	19.66	19.99	20.26	20.98
Variation with the observer position at spacings:											
S = 1.0H		3.1/-2.2					3.1/-2.3				
S = 1.5H		5.0/-2.5					5.1/-2.7				
S = 2.0H		6.8/-2.9					6.9/-2.8				
Standard tables:		BK2					BK2				
Uncorrected UGR		3.4					3.6				

- 3000K CRI82 60° Photometric Test Reports

A:Light Distribution Curve

B:LUX Distance Curve

C:UGR Glare

— UGR Glare

Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	19.91	20.88	20.46	21.40	21.98	19.88	20.85	20.43	21.37	21.95
	3H	21.50	22.36	22.07	22.90	23.52	21.50	22.36	22.07	22.90	23.52
	4H	22.04	22.84	22.63	23.40	24.04	22.06	22.86	22.64	23.41	24.05
	6H	22.42	23.16	23.02	23.73	24.38	22.44	23.17	23.04	23.74	24.39
	8H	22.54	23.23	23.15	23.82	24.45	22.55	23.24	23.16	23.83	24.47
	12H	22.66	23.33	23.27	23.91	24.58	22.67	23.34	23.29	23.92	24.60
4H	2H	20.35	21.15	20.94	21.71	22.35	20.33	21.13	20.92	21.68	22.32
	3H	22.16	22.82	22.76	23.42	24.07	22.19	22.85	22.79	23.45	24.10
	4H	22.84	23.43	23.45	24.03	24.72	22.88	23.48	23.50	24.08	24.77
	6H	23.21	23.75	23.88	24.38	25.09	23.25	23.80	23.93	24.43	25.14
	8H	23.39	23.87	24.04	24.50	25.21	23.44	23.92	24.08	24.54	25.26
	12H	23.52	23.94	24.18	24.60	25.32	23.56	23.99	24.22	24.65	25.36
8H	4H	23.06	23.54	23.70	24.16	24.88	23.13	23.61	23.77	24.24	24.95
	6H	23.59	24.81	24.26	24.66	25.37	23.65	24.87	24.33	24.72	25.44
	8H	23.79	24.15	24.48	24.83	25.56	23.86	24.21	24.54	24.89	25.62
	12H	24.40	24.72	25.08	26.06	26.19	24.45	24.77	25.13	26.11	26.24
12H	4H	23.04	23.47	23.70	24.12	24.84	23.11	23.54	23.77	24.19	24.91
	6H	23.93	23.95	24.29	24.60	25.37	23.99	24.02	24.35	24.67	25.44
	8H	23.83	24.15	24.52	24.82	25.62	23.89	24.21	24.58	24.88	25.68
Variation with the observer position at spacings:											
S = 1.0H		1.8/-2.1					1.8/-2.1				
S = 1.5H		3.3/-2.2					3.3/-2.3				
S = 2.0H		5.0/-2.4					5.0/-2.3				
Standard tables:		BK2					BK2				
Uncorrected UGR		7.7					7.9				

LED

Original LUMINUS CXM-22 LED, within 4-step MacAdam ellipses, LM80 qualified.

Others

NA

ELECTRICAL

Power supply

- Driver Input

Input Voltage (VAC)	Input Current (A)	Dimming Range	Power Factor	THDi (%)	Inrush Current (A)	MTBF (hrs)	Switching cycles	Starting Time (Ms)
120V	0.35	No	0.95	2.9	0.96	/	2~3Sec	<500

Others

- Hi-pot Test

No.	Hi-pot Voltage	Spec. of leakage	Time	Leakage of test	Result
Primary-Second	3750Vac	<10mA	60Sec	2mA	pass

Primary-FG	3750Vac	<10mA	60Sec	2mA	pass

- Protections: short-circuit protection, Under voltage protection, Output current Balance.

MECHANICAL & THERMAL MGMT

Mechanical Dimension

Heat test reports

Test condition test under a enclosed constant chamber(about L 0.5*W 0.5*H 0.6m).

Ta(°C)	Tc_{LED}(°C)	LED CAL L70 life (hrs)	Tc_{Driver}(°C)	$Tc_{Luminarie}$(°C)	$Tc_{Capacitor}$(°C)	Driver CAL life (hrs)
40	80	50000	70	70	93	50000

Others

IP20: suitable for dry location use only; IK: NA

Glow-wire test: 650°C

Audible noise level: NA

CERTIFICATION & ENERGY LABELING

Operating Temperature:-20°C~40°C

Storage Temperature:-40°C~70°C @humidity <78%

Use in dry location only, not suitable for use in totally enclosed.

Track light accessary

Barndoors

Honeycomb

Snoot

Oval snoot

PACKAGING

Unit Box	Length x Width x Height (cm)	22.5 X 15.0 X 12.7
	Net Weight (kg)	0.93
Inner Carton	Qty per carton	NA
	Length x Width x Height (cm)	NA
	Net Weight (kg)	NA
Master Carton	Qty per carton	10
	Length x Width x Height (cm)	77.5 X 24.0X 27.2
	Cube Meter	50.59X 10^{-3}
	Net Weight (kg)	9.3
	Gross Weight (kg)	11.5

Packaging schemes

INSTALLATION INSTRUCTION

WEEE: Waste of Electrical and Electronic Equipment: Do not dispose of this luminarie with your normal household waste. Recycle where facilities exist. Please check with your retailer or local authority for suitable options.

The Installation instruction of LED track light accessary