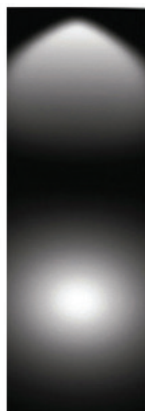


OPTICS



VWFL

Very Wide Flood
98°

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
1600	1472	19 W

Based on 3000K, 90+ CRI. Actual wattage may vary +/- 5%

FEATURES

A small profile LED track light that delivers optimal lumen output, with precise aiming for accent, task, or general illumination, integrating into any design. Track heads are adjustable up to 360 degrees horizontally, 180 degrees vertically, and are compatible with 1-circuit and 2-circuit track. With the use of a friction-based locking movement system, the head can be adjusted and re-adjusted to a precise position, delivering light where needed. Available in an array of color temperatures, it can accentuate the full spectrum of cool to warm tones, and is the perfect complement for retail merchandising, galleries, museums, supermarkets, hospitality, and commercial.

LUMENS	1600
CCT	40K
CRI	80+
COLOR QUALITY	3 Step MacAdam Ellipse
DISTRIBUTION	VWFL (Very Wide Flood)
AIMING	360 degrees horizontally, 180 degrees vertically
FINISH	AWH (Architectural White) ABK (Architectural Black) Custom RAL
DIMMING	Flicker Free 10% Dimming TRIAC forward-phase or leading-edge 120V.
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



OPTICS

A polycarbonate optical refractor allows for precise beam control and even distribution, with a variety of lumen options.

CONSTRUCTION

All track heads are designed using a proprietary coolLED Advanced Thermodynamic Design. The track head body is constructed of extruded aluminum, with a die-cast custom designed concealed heat sink, providing a thermal management system that is engineered for extremely long life and service period.

FINISH

Post-painted available in white, black and custom RAL colors.

ACCESSORIES

Track heads may accommodate 1 to 3 accessories. Please consult factory for standard or custom options.

TRACK COMPATIBILITY

Track heads are standard, with the compatibility for use with Mono-point, 1-Circuit, and 2-Circuit type H track. Please consult factory for 2-Circuit, 2-Neutral 120V Track, 2-Circuit, 2-Neutral 277V Track, 3-Circuit 1-Neutral, and Dali System Track.

DIMMING AND DRIVER INFORMATION

DIMTR – Electronic constant current LED driver compatible with TRIAC forward-phase or leading-edge dimming. Available in 120V. Dimmable down to 1%, standard. The LED driver is rated for 50 to 60Hz at 120V input, produces less than 20%THD, and has a power factor between 90% and 100%, and is thermally protected for additional safety.

WARRANTY

Five-year warranty for parts and components. (Labor not included)

Example: **ET-LED-361-1600L-DIMTR-120-VWFL-40K-80-AWH**

SERIES	LUMENS	DIMMING	OPTICS	CCT/CRI	COLOR
ET-LED-361	 1600L - 1600 lumens	 DIMTR-120	 VWFL - Very Wide Flood 98°	 40K-80	 AWH - Architectural White  ABK - Architectural Black

ET-LED-361-1600L-DIMTR-120-40K-90-VWFL(40K)

INPUT WATTS: **19.3582**

LUMENS: **1472**

CRI: **90**

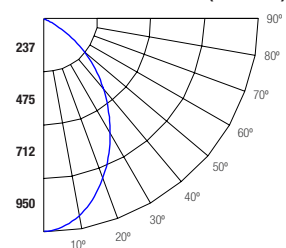
EFFICACY: **76**

CCT: **3000K**

TEST NO.: **EL05082054**

SPACING CRITERIA: **1.10**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	326.78	22.20	22.20
0-30	648.88	44.10	44.10
0-40	978.87	66.50	66.50
0-60	1415.9	96.20	96.20
0-80	1471.38	99.90	99.90
0-90	1471.4	99.90	99.90

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	164296	171804	181312
55	103400	111916	118063
65	30317	39194	48987
75	450	1666	4827
85	79	79	79

Lumens Per Zone

Zone	Lumens
0-10	88.39
10-20	238.39
20-30	322.10
30-40	329.99
40-50	273.36
50-60	163.67
60-70	51.05
70-80	4.43
80-90	0.02

Candela Tabulation

	0
0	948.68
5	933.52
15	838.60
25	683.89
35	509.02
45	339.39
55	173.26
65	37.43
75	0.34
85	0.02
90	0.02

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC RW	80%				70%				50%				30%				10%				0%			
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	0%	0%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100			
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90	88	86	84			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80	78	76	74			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71	69	67	65			
4	91	81	74	69	89	80	73	68	77	72	67	75	70	66	73	69	66	64	62	60	58			
5	84	74	66	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57	55	53	51			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52	50	48	46			
7	74	62	55	50	72	61	54	49	60	54	49	59	53	49	57	52	48	47	45	43	41			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43	41	39	37			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39	37	35	33			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	35	33	31	29			

RC - Ceiling Cavity Reflectance

Cone of Light			
2	328 fc	2.7 ft	2.7 ft
4	87.1 fc	5.1 ft	5.2 ft
6	37.9 fc	7.8 ft	7.9 ft
8	21.1 fc	10.4 ft	10.6 ft
10	13.8 fc	12.9 ft	13.1 ft
12	9.49 fc	15.6 ft	15.8 ft

BEAM DIA. MEASURED AT 50% OF NADIR F.C.