

MAC Viper Quadray, Standard (Quadray) , Zoom at Minimum (12.5°) Photometric Report

Martin R&D Optics Laboratory, 12-Jun-2013

Data sheet conforms to American National Standard E1.9 - 2001

Product	MAC Viper AirFX
Catalog number	90233030 + 91614052
Lens Option	Quadray
Spread	Minimum
IES file	MAC Viper AirFX_Quadray_Minimum.ies

Procedure The goniometer consists of a computerized robot IRB 6000 and a LMT Digital Illuminance Meter B 520 that provides luminous intensity measurements for computerized data collection. The computerized robot IRB 6000 is initialized so that the center of the luminaire's front lens is positioned 7 m from the luxmeter. The luminaire is rotated around both the horizontal and vertical axis per IESNA's type B photometry in 1° increments in the horizontal plane (rotational) and 1° increments in the vertical plane (radial).

Test lamp

Model	Osram HTI 1000/PS Lok-it!
Rated wattage	1000 W
Rated life	750 hours
Rated color temp.	6000 K
Rated voltage	82 V
Rated output	85000 lumens

Test conditions

Ambient temperature	25 ± 5 °C
Consumed power	1157 W
Lamp wattage	1000 W
AC supply	230 V/50Hz
Lamp adjustment	Peak distribution
Focus	Open gobo
Gate diameter	34 mm
Color inserted	no
Effects inserted	no

Ballast

Type	Electronic
Ballast factor	1.000

Output

Total	20000 lumens
One-tenth peak	19800 lumens
Half-peak	15400 lumens
Efficiency	24 %
Efficacy	17.3 lumens per watt

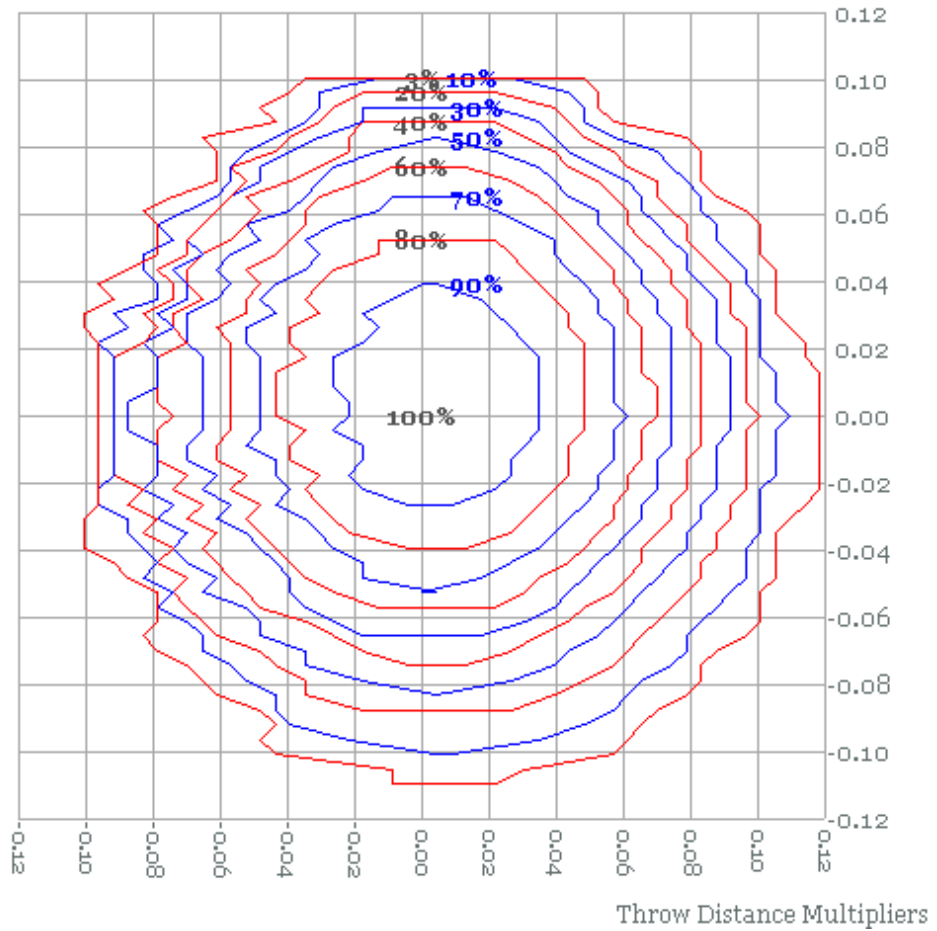
Illuminance

Cutoff angle	12.5°
One-tenth-peak angle	11.5°
Half-peak angle	8.5°
Cutoff diameter	0.219 x distance
One-tenth-peak diam.	0.201 x distance
Half-peak diam.	0.149 x distance

Intended throw

	4 - 45 meters
Focus range	2 meters to infinity
Luminous intensity	1138000 candela
Luminaire type	Far field

Iso-Illuminance



100%=1,045fc at 33ft
 (distance from origin)=(throw distance) X (throw distance multiplier)

