

22.04.2016

Applicant Varton LLC 14/6 Dorogobuzhskaya st,
Moscow, Russian Federation, 121354

Equipment Under Test (EUT)

Description: LED Luminaire VARTON Mercury LED Mall 1500*66*58mm narrow asymmetry

Product code: V1-R0-70150-31L15-2308040

Weight: 2.5kg

The test results refer to the tested sample only.

Characteristics declared by the manufacture

Power consumption	80W
Color temperature	4000K

Test objective

is to perform lighting tests and to determine the main photometric characteristics.

Test conditions

Ambient temperature	25±4°C
Humidity	65±10%
Stabilized voltage supply	230V
Pressure	101kPa ±3%
Frequency	50Hz
Operating time	≥60min

Normative references

GOST 54350-2015

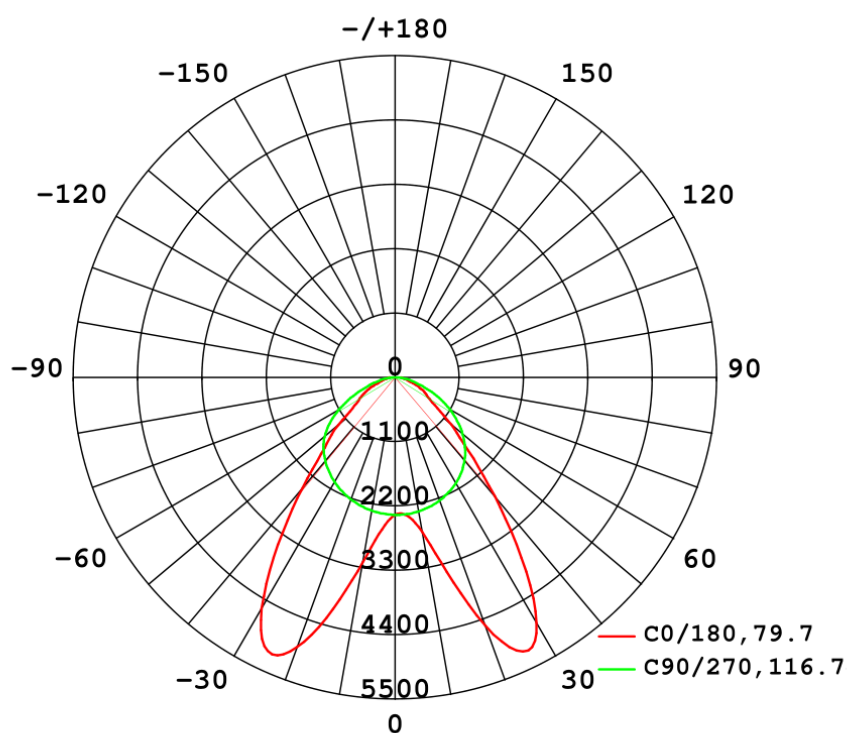
Equipment Used during Test

№	Name MS (UE)	Type MS (UE)
1	Goniophotometer	GO-R5000
2	Digital power meter	PF2010
3	Power source AC pulse width modulation	DPS1010
4	Light meter + Pulsometr + Luminance meter	"TKA-PKM" (09)
5	Spectroradiometer	HAAS-2000

Test results of measurement of photometric and electrical characteristics

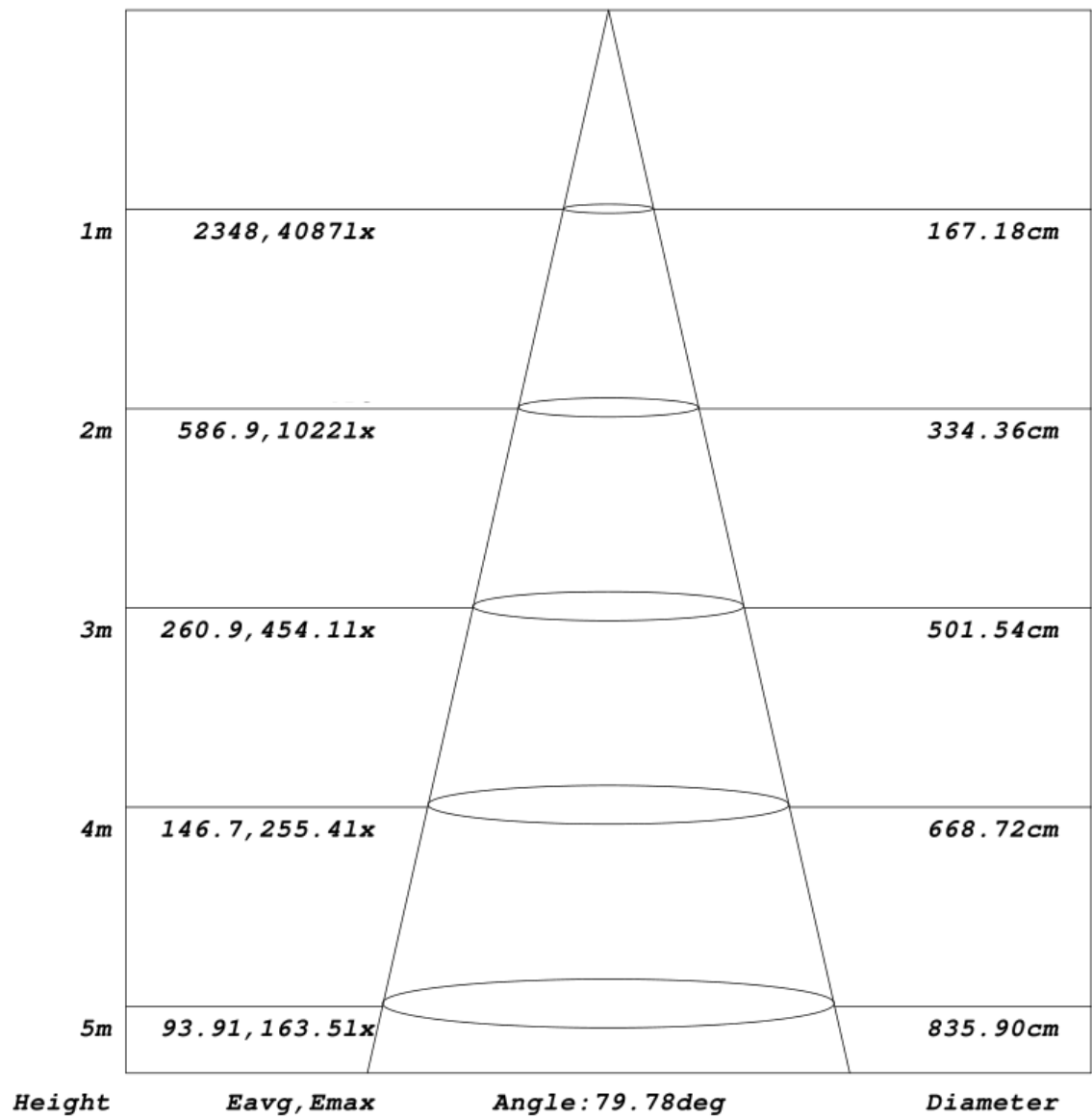
Luminous flux, lm	9445,47
Luminous intensity (Max), cd	5195
Luminous efficacy, lm/W	122,11
Power input, W	77,35
Power factor	0,9835
Current intensity, A	0,3422
Reactive power, VAr	14,2
Total power consumption, VA	78,7
Beam angle, deg	98,2

Luminous intensity distribution diagram



UNIT: 5195cd

AAI figure



Utilization factor table

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	63	53	46	63	53	46	62	52	46	40
0.80	73	63	57	73	63	56	71	62	56	50
1.00	82	72	66	81	71	65	79	72	65	58
1.25	88	79	73	87	79	73	85	77	72	65
1.50	93	84	78	91	84	78	89	82	77	70
2.00	99	92	86	97	90	85	94	88	84	77
2.50	102	95	90	100	94	89	97	92	87	80
3.00	105	99	94	103	98	93	99	95	91	83
4.00	108	103	99	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	104	101	98	89
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHR _{NOM} = 1.25										

Head of the Testing Laboratory _____/D. Timonin

Test conducted by: S. Laukhin

Test report drawn up by: V. Smishchenko