

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 58°x121°

Product code: V1-R0-70150-31L13-2308040

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

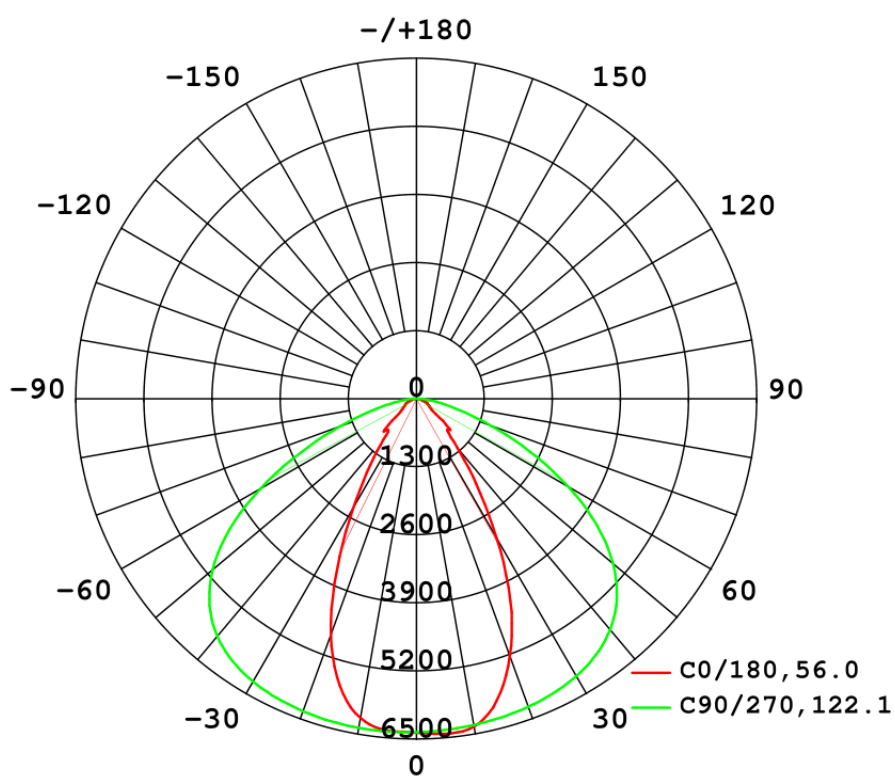
Equipment Used during Test

№	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

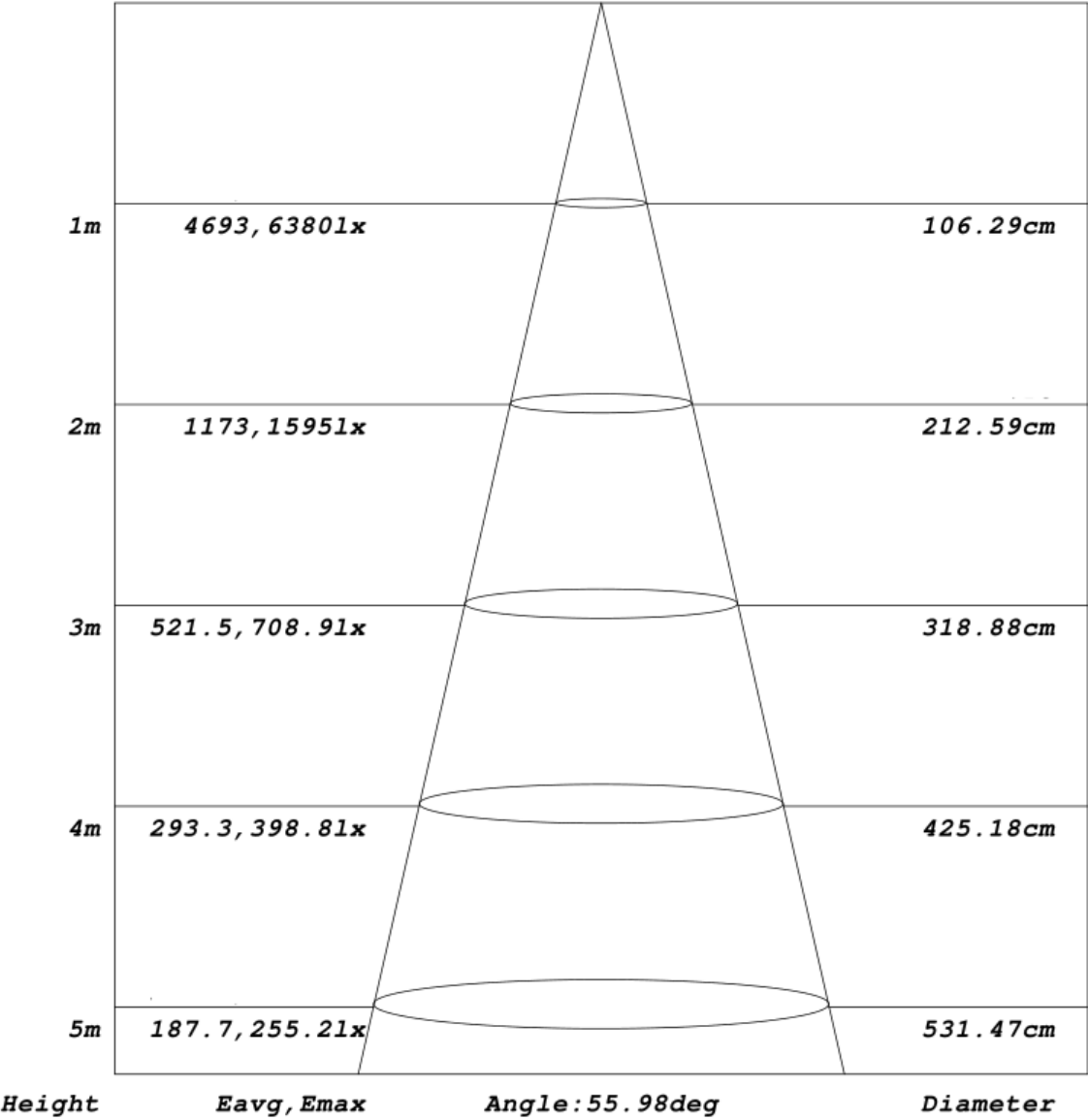
Luminous flux, lm	11271,9
Luminous intensity (Max), cd	6422
Luminous efficacy, lm/W	145,68
Power input, W	77,38
Power factor	0,9835
Current intensity, A	0,3423
Reactive power, VAr	14,2
Total power consumption, VA	78,7
Beam angle, deg	89,0

Luminous intensity distribution diagram



UNIT: 6422cd

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) $k(RI) \times RCR = 5$									
$k = 0.60$	67	57	51	66	57	51	65	57	51	45
0.80	77	67	61	76	67	61	74	66	60	55
1.00	84	75	69	83	75	69	81	75	68	62
1.25	91	82	76	89	81	76	87	80	75	69
1.50	95	87	81	93	86	81	91	84	80	73
2.00	100	93	88	99	92	87	95	90	86	79
2.50	103	97	92	101	96	91	98	93	89	82
3.00	106	101	96	104	99	95	100	96	93	85
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	107	104	109	105	102	104	102	99	91
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNOM = 1.25										

Head of the Testing Laboratory _____/D. Timonin

Test conducted by: S. Laukhin

Test report drawn up by: V. Smishchenko