

Photometric Test Report

Relevant Standards

☑IES LM-79-2008 ☑ANSI C82.77:2014

Prepared For

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LOC-T88FT-38W50KPAF B



Integrating Sphere Test

Model No.	LOC-T88FT-38W50KPAF B	Sample ID.	A1
Opreate time (Min.)	90	Stabilization time (Min.)	45

Test Method

The samples were tested according to the IES LM-79-2008.

Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25 $^{\circ}$ C \pm 1 $^{\circ}$ C.

The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere.

The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ±0.2 percent under load.

The sample was measured using 4π geometry and operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.

Test Conditions

Model No.	Temperatur e (°C)	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
LOC- T88FT-38W50K PAF B	25.1	119.99	60	0.329	38.1	0.965

Test Result

Model No.	CCT (K)	CRI (Ra)	Light Output (Im)	Efficacy (lm/W)	Duv
LOC- T88FT-38W50K	5142	83	4979	130.68	2.4E-03
PAF B					



Goniophotometer Test

Model No.	LOC-T88FT-38W40KPAF B LOC-T88FT-38W50KPAF B				
Opreate time (Min.)	90 Stabilization time (Min.)				

Test Method

The samples were tested according to the IES LM-79-2008.

Photometric paramters were measured using a type C goniophotometer and software.

The ambient temperature shall be maintained at 25° C \pm 1° C, measured at a point not more than 1 m from the sample and at the same height as the sample.

The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ±0.2 percent under load.

The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 0.5° vertical intervals and 10° horizontal intervals.

Test Conditions

Two tubes were placed in a reference housing during testing

Temperatur e (°C)	Voltage (Vac)	Frequency (Hz)	Power (W)	Orientation
24.9	119.99	60	78.4	horizontal

Test Result

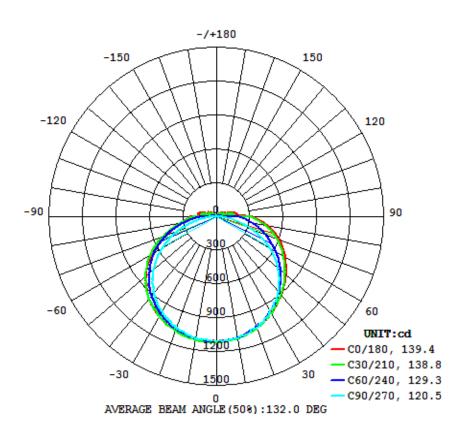
Totricount									
Flux(lm)	Zonal Lumen Requireme nt(0°-60°)	SC (0°-180°)	SC (90°-270°)	Luminous Efficacy (lm/W)					
8381	73.60%	1.34	1.30	106.9					



LUMINAIRE PHOTOMETRIC TEST REPORT

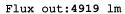
DATA OF LAMP			PHOTOMETRIC DATA Eff: 110.89 lm				
MODEL			Imax(cd)	2198.8	S/MH(CO/180)	1.37	
NOMINAL E	NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.31	
RATED VOI	RATED VOLTAGE(V)		TOTAL FLUX(lm)	8372.4	η UP,DN(C0-180	3.1,46.6	
NOMINAL FLUX(lm) 8372.49		8372.49	CIE CLASS	DIRECT	η UP,DN(C180-360	3.1,47.1	
LAMPS INSIDE 1		1	η up(%	6.3	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)		η down(%	93.7	CIBSE SHR MAX	1.55		

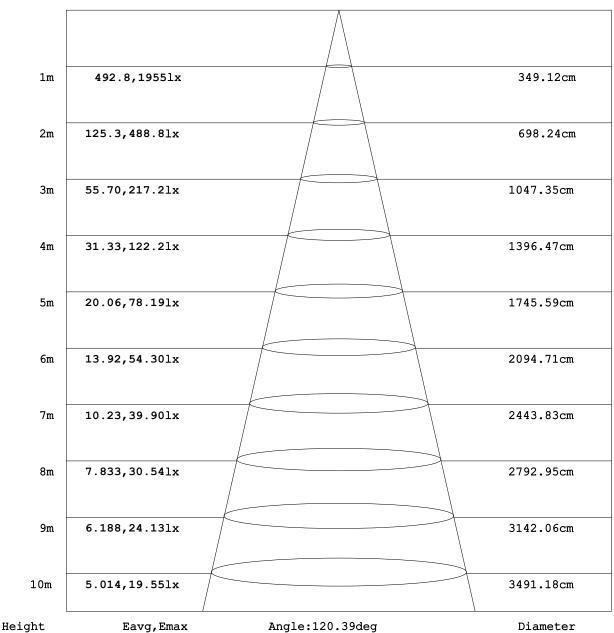
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM





AAI Figure





Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.



UGR (Unified Glare Rating) Table

NAME: 5						TYPE:			WEIGHT:		
SPEC.:						DIM.: 0			SERIAL 1	No.:	
MFR.:						SUR.:0			Shieldi	ng Angle:	
ceiling/cavi	ty	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
wal	lls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working pla	ne	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensio	ns		Viev	wed cross	wise			Vi	ewed endw	ise	
x = 2H y =	2Н	14.1	15.7	14.6	16.1	16.6	13.0	14.6	13.5	15.1	15.5
	3н	16.9	18.4	17.4	18.9	19.4	14.9	16.4	15.4	16.9	17.4
	4H	18.3	19.7	18.8	20.2	20.7	15.7	17.1	16.2	17.5	18.0
	6Н	19.8	21.1	20.3	21.6	22.1	16.2	17.5	16.7	18.0	18.5
	8н	20.6	21.8	21.1	22.3	22.9	16.3	17.6	16.8	18.1	18.6
1	12H	21.4	22.6	21.9	23.1	23.7	16.4	17.6	16.9	18.1	18.7
4H	2H	14.9	16.3	15.3	16.7	17.2	14.0	15.4	14.5	15.8	16.4
	3н	18.0	19.2	18.5	19.7	20.2	16.2	17.4	16.7	17.9	18.5
	4H	19.6	20.7	20.1	21.2	21.8	17.2	18.3	17.7	18.8	19.4
	6Н	21.2	22.2	21.8	22.8	23.3	17.9	18.8	18.4	19.4	20.0
	8Н	22.1	23.0	22.7	23.6	24.2	18.1	19.0	18.6	19.6	20.2
1	12H	23.1	23.9	23.6	24.5	25.1	18.2	19.1	18.8	19.7	20.3
8н	4H	20.1	21.0	20.6	21.5	22.1	17.9	18.9	18.5	19.4	20.0
	6Н	22.0	22.8	22.6	23.4	24.0	18.9	19.7	19.5	20.3	20.9
	8Н	23.1	23.8	23.7	24.4	25.0	19.4	20.1	19.9	20.7	21.3
1	12H	24.3	24.9	24.9	25.5	26.2	19.7	20.3	20.3	20.9	21.6
12H	4H	20.1	21.0	20.7	21.5	22.1	18.1	19.0	18.7	19.6	20.2
	6Н	22.2	22.9	22.8	23.4	24.1	19.3	20.0	19.9	20.6	21.2
	8Н	23.3	24.0	23.9	24.6	25.2	19.9	20.5	20.5	21.1	21.8