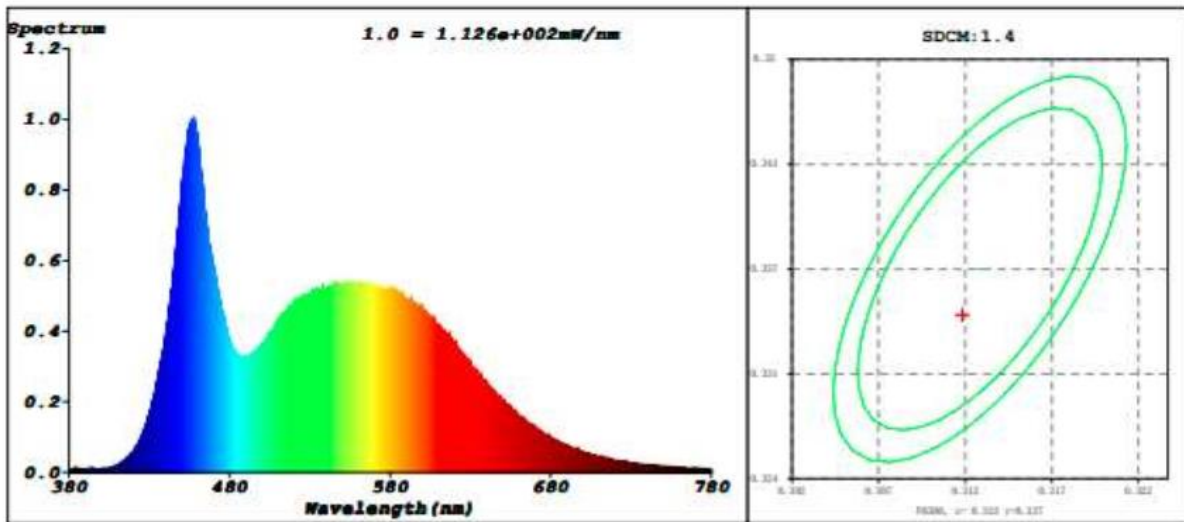


Supplier's name or trade mark:		Clarke International Ltd	
Supplier's Address;		Sealand House, Hemnall Street, Epping CM16 4LG	
Model Identifier:		MHL4500LM	
Type of Light Source:		Integral	
Lighting technology used:	LED	Non-directional or directional:	NDLS
Light source cap-type (or other electric interface)	N/A		
Mains or no-mains:	NMLS	Connected light source (CLS)	No
Colour-tunable light source:	No	Envelope:	No
High luminance light source	No		
Anti-glare shield	No	Dimmable:	No
Product parameters			
Parameter	EN62612:2013+A1:2017+A11:2017+A2:2019	Parameter	EN62717:2017+A2:2029 EN13032-4:2015+A1:2019
General product parameters			
Energy consumption in on mode (kWh/1000h) rounded up to the nearest integer	31 (Main light) 8 (Flank light)	Energy Efficiency class	E (Main light) D (Flank light)
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	3800lm (Main light) 1200lm (Flank light)	Correlated colour temperature, rounded to the nearest 100K, or the range of correlated colour temperatures, rounded to the nearest 100K than can be set	6500K
On-mode power (P _{on}) expressed in W	31W (Main light) 8W (Flank light)	Standby power (P _{sb}) expressed in W and rounded to the second decimal	-
Networked standby power (P _{net}) for CLS expressed in W and rounded to the second decimal	-	Colour rendering index, rounded to the nearest integer or the range of CRI- values that can be set	80
Outer dimensions without separate control gear, lighting control parts and non lighting control parts, if any (mm)	Height	270	Spectral power distribution in the range 250nm to 800nm at full load
	Width	215	
	Depth	370	
Claim of equivalent power ©	No	If yes, equivalent power (W)	-
		Chromaticity coordinates (x and y)	0.313 0.337
Parameters for directional light sources:			
Peak luminous intensity (cd)	-	Beam angle in degrees, or the range of beam angles that can be set	-
Parameters for LED and OLED light sources:			
R9 colour rendering index value	See below	Survival factor	1

The luminour maintenance factor	94.80%		
<i>Parameters for LED and OLED mains light sources:</i>			
Displacement factor (cos 1)	-	Colour consistency in McAdam ellipses	< 6
Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage.	-	If yes then replacement claim (W)	-
Flicker metric (Pst LM)	-	Stroboscopic effect metric (SVM)	-

Image A - Spectral Power Distribution



Colorimetric Parameters

Chromaticity Coordinate: $x=0.3120$ $y=0.3342/u'=0.1954$ $v'=0.4710$

CCT=6503K (Duv=0.0062) Dominant WL: $L_d = 0.0nm$ Purity=1.6%

Peak WL: $L_p=457.2nm$ FWHM=29.9nm

Render Index: $R_a=83.0$

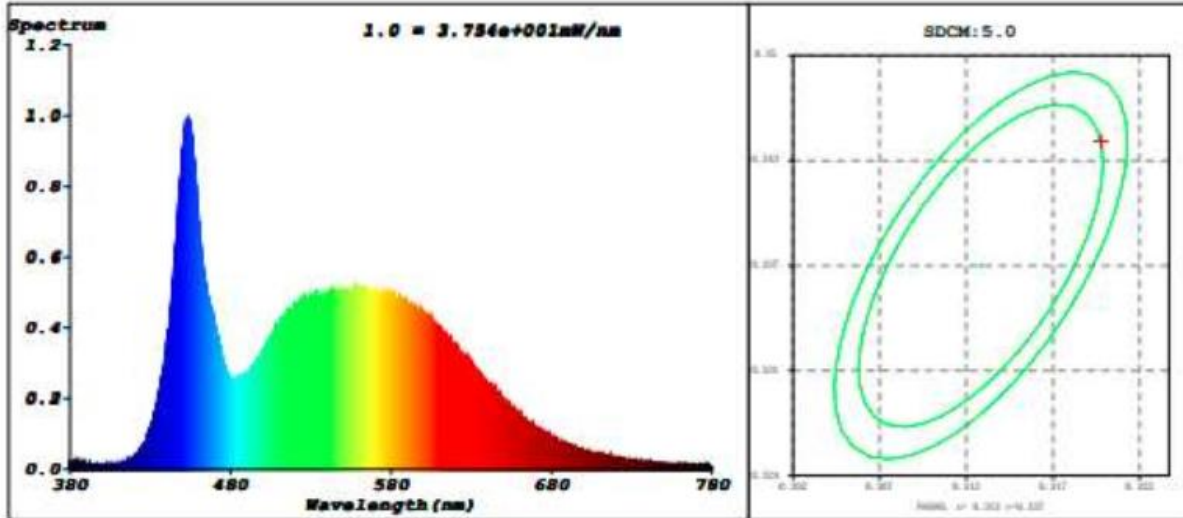
R1 =81 R2 =90 R3 =94 R4 =79 R5 =81 R6 =85 R7 =87
 R8 =67 R9 =4 R10=75 R11=77 R12=59 R13=84 R14=97 R15=75

Photometric & Radiometric Parameters

Flux=3861 lm Eff.:126.59 lm/W $F_e=12.52 W$

Electrical parameters

V=61.0V I=0.500 A P=30.5 W PF=1.000



Colorimetric Parameters

Chromaticity Coordinate: $x=0.3199$ $y=0.3445/u'=0.1971$ $v'=0.4774$

CCT=6060K(Duv=0.0075) Dominant WL:Ld =502.9nm Purity=4.1%

Peak WL:Lp=453.8nm FWHM=22.0nm

Render Index:Ra=81.4

R1 =78 R2 =87 R3 =92 R4 =79 R5 =79 R6 =82 R7 =88
 R8 =66 R9 =0 R10=69 R11=78 R12=55 R13=81 R14=96 R15=73

Photometric & Radiometric Parameters

Flux=1211 lm Eff.:151.56 lm/W Fe=3.812 W

Electrical parameters

V=61.0 V I=0.131 A P=7.99 W PF=1.000