Specification summary

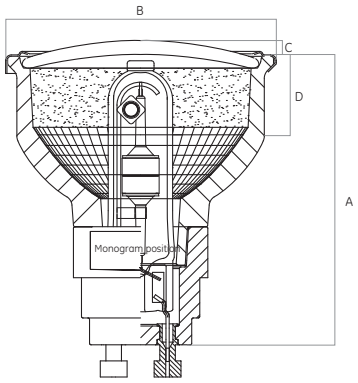
Watts	Operating Position	Length [mm]	Order Code	Cap / Base	Colour	CBCP [cd]	Rated Average Life [Hr]	Pack Qty	Product Code
20	U	54.5	**CMH20/MR16/UVC/830/GX10/SP**	GX10	830	9000	12000	12	**40400**
20	U	54.5	**CMH20/MR16/UVC/830/GX10/FL**	GX10	830	2900	12000	12	**40401**
20	U	54.5	**CMH20/MR16/UVC/830/GX10/WFL**	GX10	830	1500	12000	12	**42691**
35	U	54.5	**CMH35/MR16/UVC/930/GX10/SP**	GX10	930	16000	10000*	12	**88658**
35	U	54.5	**CMH35/MR16/UVC/930/GX10/FL**	GX10	930	5500	10000*	12	**88659**
35	U	54.5	**CMH35/MR16/UVC/930/GX10/WFL**	GX10	930	3000	10000*	12	**88660**
35	U	54.5	**CMH35/MR16/UVC/942/GX10/SP**	GX10	942	16000	12000*	12	**88661**
35	U	54.5	**CMH35/MR16/UVC/942/GX10/FL**	GX10	942	5500	12000*	12	**88662**
35	U	54.5	**CMH35/MR16/UVC/942/GX10/WFL**	GX10	942	3000	12000*	12	**88663**

* Initial rating at time of launch. Testing continues to establish final design life.

General									
Product Code	**40400**	**40401**	**42691**	**88658**	**88659**	**88660**	**88661**	**88662**	**88663**
Nominal Wattage [W]	20	20	20	35	35	35	35	35	35
Format	MR16	MR16	MR16	MR16	MR16	MR16	MR16	MR16	MR16
Bulb Type	MR16	MR16	MR16	MR16	MR16	MR16	MR16	MR16	MR16
Bulb Diameter [mm]	51	51	51	51	51	51	51	51	51
Bulb Material	Borosilicate glass	Borosilicate glass	Borosilicate glass	Borosilicate glass	Borosilicate glass	Borosilicate glass	Borosilicate glass	Borosilicate glass	Borosilicate glass
Bulb Finish	Aluminized	Aluminized	Aluminized	Aluminized	Aluminized	Aluminized	Aluminized	Aluminized	Aluminized
Operating Conditions									
Burning Position	Universal	Universal	Universal	Universal	Universal	Universal	Universal	Universal	Universal
Luminaire	Open	Open	Open	Open	Open	Open	Open	Open	Open
Electrical Characteristics									
Power [W]	20	20	20	39	39	39	39	39	39
Voltage [V]	95	95	95	90	90	90	90	90	90
Current [A]	0.21	0.21	0.21	0.42	0.42	0.42	0.42	0.42	0.42
Max Ignition Voltage [kV]	4	4	4	5	5	5	5	5	5
Min Ignition Voltage [kV]	3	3	3	3	3	3	3	3	3
Extinction Voltage [%]	80	80	80	90	90	90	90	90	90
Photometric characteristics									
Beam Angle	12° Spot	25° Flood	40° Wide Flood	12° Spot	25° Flood	40° Wide Flood	12° Spot	25° Flood	40° Wide Flood
CBCP	9000	2900	1500	16000	5500	3000	16000	5500	3000
Lumens [L]	1000	1000	1000	2200	2200	2200	2200	2200	2200
CCT [K]	3000	3000	3000	3000	3000	3000	4000	4000	4000
CCx	0.431	0.431	0.431	0.444	0.444	0.444	0.383	0.383	0.383
CCy	0.403	0.403	0.403	0.401	0.401	0.401	0.370	0.370	0.370
CRI [Ra]	81	81	81	90	90	90	92	92	92
Luminous Efficacy [LpW]	50	50	50	56	56	56	56	56	56
Starting and Warm-up Characteristics									
Time to Start @ 10C [Sec]	<5	<5	<5	<5	<5	<5	<5	<5	<5
Time to Start @ -15C [Sec]	<15	<15	<15	<15	<15	<15	<15	<15	<15
Hot Restart Time [Min]	<4	<4	<4	<10	<10	<10	<6.5	<6.5	<6.5
Warm-up to Time to 90% Lumen Output [Min]	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Maximum Operating Conditions									
Max Bulb Temperature[1] [°C]	200	200	200	300	300	300	300	300	300
Max Base Temperature[2] [°C]	200	200	200	300	300	300	300	300	300

[1] Measured at centre of MR16 lens, in vertical base-up position
[2] Measured on 25mm GX10 ceramic cap rim, at transition to 23mm diameter

Dimensions

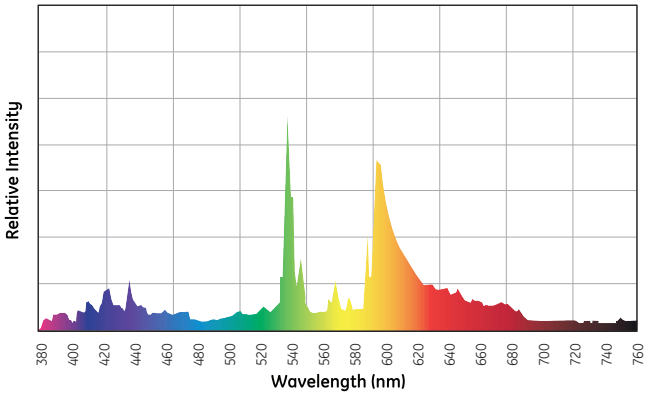


A Length (max) [mm]	54.5
B Diameter (max) [mm]	51
C (max) [mm]	3.5
D (max) [mm]	14

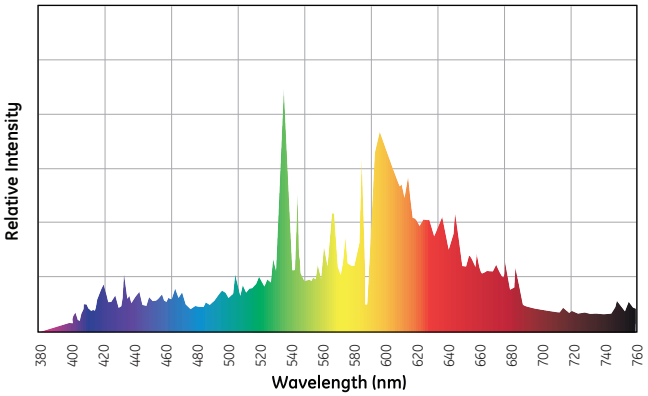
Spectral power distribution

Spectral power distribution curves are given in the following diagrams.

Spectral power distribution CMH MR16 20W 830



Spectral power distribution CMH MR16 35W 930



Spectral power distribution CMH MR16 35W 942