Beacon Spot Lights

Concord

Beacon Introduction

The Concord Beacon range of spotlights is one of the most comprehensive on the market, offering both new cutting-edge LED technology and a wide selection of traditional lamp sources, providing complete versatility for display and accent lighting applications. Beacon introduces a timeless but contemporary all die-cast aluminium design based around simple geometric shapes offering a selection of beam angles and additional filters and accessories to complete the range.

The Beacon LED spotlight and BRA introduce a new lighting dimension to retail and display spaces, both ranges meet the tough demands of these environments by providing good colour rendering, zero UV/IR radiation, reduction in maintenance costs and an energy saving solution over existing lamp sources such as low voltage halogen.

Beacon High Output introduces a new concept in reflector design using 99.98% super pure aluminium material which introduces a high output, super efficient spotlight range for 20, 35W & 70W CMI-T lamps. The high efficiency of the new optics used for both spot and flood versions means that it is possible to use lower wattage lamps and still achieve similar light intensity levels. Beacon HO provides the ultimate CMI-T energy saving solution for shop lighting applications.

Beacon Range overview

Beacon LED	BRA (Beacon Recessed Adjustable)	Beacon High Output	Beacon CMI/CDM-T	Beacon CMI/Tmini/ CMH-Super Mini
Page 08-13	Page 14-19	Page 20-23	Page 24-27	Page 28-31

Beacon LED
- Spot

BRA LED
- Spot

Beacon High Output
35 & 70w - Spot

Beacon CMI/CDM-T
35 & 70w - Spot

Beacon CMI-Tmini/
CMH-Super Mini
20 & 35w - Spot

Beacon LED Plus
- Spot

BRA LED
- Flood

Beacon High Output
35 & 70w - Flood

Beacon CMI/CDM-T
35 & 70w - Flood

Beacon CMI-Tmini/
CMH-Super Mini
20 & 35w - Flood

Beacon LED
- Flood

BRA CMI-Tmini/
CMH-Super Mini
- Spot

Beacon CMI/CDM-T
35 & 70w - Accessories

Beacon CMI-Tmini/
CMH-Super Mini
- Accessories

Beacon LED Plus
- Flood

BRA CMI-Tmini/
CMH-Super Mini
- Flood

BRA CMI-Tmini/
CMH-Super Mini
- Accessories

Beacon Low Energy TC/TEL	Beacon Low Voltage Capsule and Dichroic	Beacon Britespot	Beacon Mains Voltage
Page 32-33	Page 34-38	Page 39	Page 40-42

Beacon Low Energy
- 26/32/42w TC-TEL

Beacon Low Voltage
50w Capsule - Spot

Britespot 35W
- Spot

Beacon Mains Voltage
100w Hi-Spot 95

Beacon Low Voltage
50w Capsule - Flood

Beacon Mains Voltage
50w Hi-Spot ES50

Beacon Low Voltage
Dichroic 20 - 50w

Beacon Low Voltage
50w Capsule
- Accessories
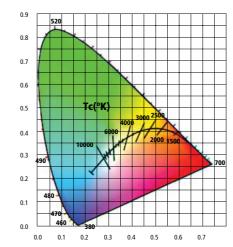
Colour Temperature

Colour temperature is a characteristic of visible light that plays a significant role in lighting applications. The colour temperature of a light source is the temperature of a perfect black-body radiator that radiates light of a similar appearance to that of the light source. The colour temperature is measured in units of absolute temperature; Kelvin (K).

Colour temperature works paradoxically to our cultural associations with colour, red as hot and blue as cold. On the black-body curve, blue occurs at higher temperatures than red. A good example is a candle which has a warm red orange appearance but in fact has a low Kelvin temperature, 1850 K. Therefore higher colour temperatures (5000 K more) are called cool colours (blueish white); lower colour temperatures (2700 – 3000 K) are called warm colours (yellowish white through red).

The Planckian locus shows the chromaticities of black-body light sources of various colour temperatures and lines of constant correlated colour temperature shown within the CIE chromaticity diagram.

Colour Correlated Temperature (CCT)

An incandescent light bulb is very close to a perfect black-body radiator, so its colour temperature is basically the temperature of the filament. However many light sources, such as fluorescent tubes or high intensity discharge lamps, emit light by processes other than thermal radiation and therefore it is not possible to apply the black-body spectrum. For these light sources it is possible to assign what is known as a colour correlated temperature (CCT). The CCT is the colour temperature of a black-body (Planckian) radiator which most closely matches the colour of the light emitted from the lamp.
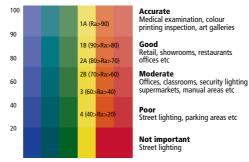

Warm White
3000K

Neutral White
4000K

Colour Rendering Index (CRI)

The colour rendering of a light source is an indicator of its ability to realistically reproduce the colour of an object. The chart illustrates our ability to accurately determine colour depending on the colour rendering properties of the light source. The higher the colour rendering index (on a scale of 0 to 100) of the source the better our ability to perceive differences in colour, which is a considerable aid to highlighting fashion products and effective display of coloured artworks.

The CIE colour rendering index (CRI) is a method to determine how well a light source's illumination of eight standardised colour patches compares to the illumination provided by a reference source. At Ra (8) the perceived colour shift of eight reference colours is measured as a percentage and averaged to give one number. However it is currently understood that due to the spectral power distribution of LED's that instead of using the standard Ra8 it is important to include 7 additional colours which include red, yellow, blue & green and use Ra14 to ensure better results.

Typical application

1A (Ra>90)	**Accurate** Medical examination, colour printing inspection, art galleries
1B (90>Ra>80)	**Good** Retail, showrooms, restaurants offices etc
2A (80>Ra>70)	
2B (70>Ra>60)	**Moderate** Offices, classrooms, security lighting supermarkets, manual areas etc
3 (60>Ra>40)	
4 (40>Ra>20)	**Poor** Street lighting, parking areas etc
	Not important Street lighting

General Colours Ra8

+ Special Colours = Ra14

Binning

The term binning refers to the variations which occur within a single production batch of LED's such as chromaticity, lumen output and forward voltage. It is important that a specific bin has been identified and selected to ensure a uniform and constantly even lighting installation is achieved. If all the LED's were selected from one production batch and used in the same luminaire or installation, there would be a mix of colour temperatures and brightness levels. For the lighting manufacturer / designer binning is an essential part of LED specification.

MacAdam ellipses methodology was created in 1943 for mathematically constructing ellipses around target points, something which became very useful for the lamp industry. ANSI C78.377 is now the standard for chromaticity specified by the American National Standards Institute. ANSI recommends that lamp manufacturers stay within a "4-step" ellipse. This means that, given a certain target point on the CIE diagram, manufacturers are given a fairly wide range of perceptible differences. The CITILED light engine products comply with the "3-step" MacAdam ellipses, meaning the chromaticity ranges are narrowed to approximately a ninth of the ANSI standard.

MacAdam ellipses 3 / 5 / 7 SDCM
ex. 3000K

Chromaticity range chart

Lumen Maintenance

Rated Lumen Maintenance Life (Lxx): The elapsed operating time over which the LED light source will the percentage, xx, of its initial light output.
• L80 = Time to 80% lumen maintenance, in hours
• L70 = Time to 70% lumen maintenance, in hours
For LED lamps, lumen maintenance is often shown as curves of relative lumen output over time for the LED under various operating conditions, such as drive current and junction temperature.
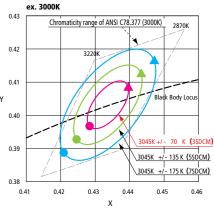

Junction Temperature (Tj)

The temperature of the Junction of the LED die inside the LED lamp. Measuring the LED die temperature by direct mechanical means is difficult and may lead to erroneous results. It is recommended that the Tj is calculated with manufacturer's data through measurement of the temperature at the solder point (Tsp).
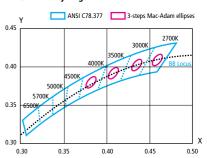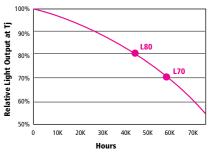
Product specification

Non Dim Forward Current	910mA
Total Circuit Power	20W
Dim Forward Current	700mA
Total Circuit Power	15W
Typical CRI 3000K	Ra 85
Typical CRI 4000K	Ra 85
Typical CRI 3000K Beacon LED Plus	Ra 92
Maximum Junction Temperature (Tj)	120°C
Maximum Temperature Solder Point (Tsp)	88°C
Beacon LED Non Dim 910mA Tsp	67°C
BRA LED Non Dim 910mA Tsp	76°C
Beacon LED Dim 700mA Tsp	53°C
BRA LED Dim 700mA Tsp	62°C

Beacon LED
Spotlights

Beacon LED – Spot

- New high output high efficiency LED spotlight range
- Contemporary, compact all die-cast design
- Cutting-edge cooling fin design to maximise thermal management and reduction of LED junction temperature
- IR/UV – free light source without heat radiation
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Long life up to 50K hours, fit and forget maintenance free lighting solution
- Dimmable versions with on board dimming from 100% - 0% output
- Available in 15° spot or 30° flood options
- Choice of colour temperatures warm 3000K & neutral 4000K
- Beacon Plus version offers high CRI, typical Ra92 ideal for museums, galleries and high end shop lighting applications
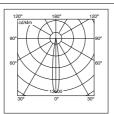
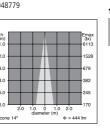Beacon LED spot comes complete with Light Spill Baffle

Beacon LED Spot 3000K		White	Silver	Black	
LED Spot	Single Circuit	**2048776**	**2048777**	**2048778**	0.85kg
LED Spot Dim	Single Circuit	**2048807**	**2049457**	**2049458**	0.85kg
LED Spot	Three Circuit	**2048764**	**2048765**	**2048766**	0.85kg
LED Spot Dim	Three Circuit	**2048788**	**2048789**	**2048790**	0.85kg

Beacon LED Spot 4000K		White	Silver	Black	
LED Spot	Single Circuit	**2048779**	**2048780**	**2048781**	0.85kg
LED Spot Dim	Single Circuit	**2049459**	**2049460**	**2049461**	0.85kg
LED Spot	Three Circuit	**2048767**	**2048768**	**2048769**	0.85kg
LED Spot Dim	Three Circuit	**2048791**	**2048792**	**2048793**	0.85kg

Citizen CITILED CL-L233 13w

Luminous Flux 4000K 1055 lm
Luminous Flux 3000K 960 lm

2048779

15°

Monopoint For surface mounting on to ceiling and walls

Single Circuit		**3020060**	**3020070**
Three Circuit		**3020010**	**3020030**

Accessories

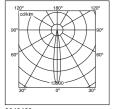|	
Beacon LED Coloured Gel Pack	**2049498**

156.5

80Ø

Beacon LED Plus – Spot

- New high output high efficiency LED spotlight range
- Contemporary, compact all die-cast design
- Cutting-edge cooling fin design to maximise thermal management and reduction of LED junction temperature
- IR/UV – free light source without heat radiation
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Long life up to 50K hours, fit and forget maintenance free lighting solution
- Dimmable versions with on board dimming from 100% - 0% output
- Available in 15° spot or 30° flood options
- Choice of colour temperatures warm 3000K & neutral 4000K
- Beacon Plus version offers high CRI, typical Ra92 ideal for museums, galleries and high end shop lighting applications

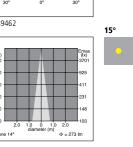Beacon LED spot comes complete with Light Spill Baffle

Beacon LED Plus Spot 3000K		White	Silver	Black	
LED Plus Spot	Single Circuit	**2049462**	**2049463**	**2049464**	0.85kg
LED Plus Spot	Three Circuit	**2048794**	**2048795**	**2048796**	0.85kg

Citizen CITILED CL-L233 13w

Luminous Flux 3000K 725 lm

2049462

15°

Monopoint For surface mounting on to ceiling and walls

Single Circuit		**3020060**	**3020070**
Three Circuit		**3020010**	**3020030**

Accessories

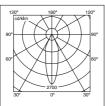|	
Beacon LED Coloured Gel Pack	**2049498**

156.5
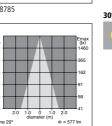
80Ø
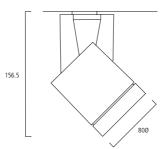
Beacon LED – Flood

- New high output high efficiency LED spotlight range
- Contemporary, compact all die-cast design
- Cutting-edge cooling fin design to maximise thermal management and reduction of LED junction temperature
- IR/UV – free light source without heat radiation
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Long life up to 50K hours, fit and forget maintenance free lighting solution
- Dimmable versions with on board dimming from 100% - 0% output
- Available in 15° spot or 30° flood options
- Choice of colour temperatures warm 3000K & neutral 4000K
- Beacon Plus version offers high CRI, typical Ra92 ideal for museums, galleries and high end shop lighting applications

Beacon LED Flood 3000K		White	Silver	Black	
LED Flood	Single Circuit	**2048782**	**2048783**	**2048784**	0.85kg
LED Flood Dim	Single Circuit	**2049465**	**2049466**	**2049467**	0.85kg
LED Flood	Three Circuit	**2048770**	**2048771**	**2048772**	0.85kg
LED Flood Dim	Three Circuit	**2048797**	**2048798**	**2048799**	0.85kg

Beacon LED Flood 4000K		White	Silver	Black	
LED Flood	Single Circuit	**2048785**	**2048786**	**2048787**	0.85kg
LED Flood Dim	Single Circuit	**2049468**	**2049469**	**2049470**	0.85kg
LED Flood	Three Circuit	**2048773**	**2048774**	**2048775**	0.85kg
LED Flood Dim	Three Circuit	**2048801**	**2048802**	**2048803**	0.85kg
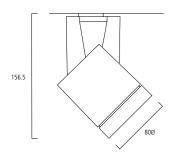
Citizen CITILED CL-L233 13w

Luminous Flux 4000K 1055 lm
Luminous Flux 3000K 960 lm

2048785

30°

cone 29°   Φ = 577 lm

Monopoint For surface mounting on to ceiling and walls

Single Circuit		**3020060**	**3020070**
Three Circuit		**3020010**	**3020030**

Accessories

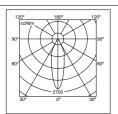|	
Beacon LED Coloured Gel Pack	**2049498**
Beacon Flood Lens (To give 40deg beam)	**2049499**

156.5

80Ø

Beacon LED Plus – Flood

- New high output high efficiency LED spotlight range
- Contemporary, compact all die-cast design
- Cutting-edge cooling fin design to maximise thermal management and reduction of LED junction temperature
- IR/UV – free light source without heat radiation
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Long life up to 50K hours, fit and forget maintenance free lighting solution
- Dimmable versions with on board dimming from 100% - 0% output
- Available in 15° spot or 30° flood options
- Choice of colour temperatures warm 3000K & neutral 4000K
- Beacon Plus version offers high CRI, typical Ra92 ideal for museums, galleries and high end shop lighting applications

Beacon LED Plus Spot 3000K		White	Silver	Black	
LED Flood	Single Circuit	**2049471**	**2049472**	**2049473**	0.85kg
LED Flood	Three Circuit	**2048804**	**2048805**	**2048806**	0.85kg
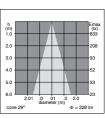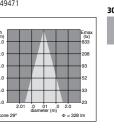
Citizen CITILED CL-L233 13w

Luminous Flux 3000K 725 lm

2049471

30°

cone 29°   Φ = 328 lm

Monopoint For surface mounting on to ceiling and walls

Single Circuit		**3020060**	**3020070**
Three Circuit		**3020010**	**3020030**

Accessories

Beacon LED Coloured Gel Pack	**2049498**
Beacon Flood Lens (To give 40deg beam)	**2049499**

156.5

80Ø

BRA (Beacon Recessed Adjustable) LED Spot

- New high output high efficiency LED recessed adjustable fixtures
- IR/UV – free light source without heat radiation
- Cutting-edge cooling fin design to maximise on thermal management and reduction of LED junction temperature
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Long life up to 50K hours, fit and forget maintenance free lighting solution
- Dimmable options including phase dimming via leading or trailing edge dimmers or DALI as standard
- Choice of colour temperatures warm 3000K & neutral 4000K
- Available with either square or round mounting plates
- Offers complete flexibility with 35° tilt facility and 355° rotation
- Available in 15° spot or 30° flood options
- Ideal for accent lighting and shop lighting applications
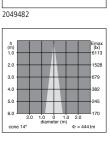- Luminaires supplied complete with LED drivers

BRA	Trim	3000K	4000K	
BRA LED White Spot	Round	**2049474**	**2049476**	1.0kg
BRA LED White Spot Dim	Round	**2049478**	**2049480**	1.0kg
BRA LED White Spot DALI	Round	**2050752**	**2050754**	1.0kg
BRA LED White Spot	Square	**2049482**	**2049484**	1.0kg
BRA LED White Spot Dim	Square	**2049486**	**2049488**	1.0kg
BRA LED White Spot DALI	Square	**2020756**	**2020758**	1.0kg

2049482

Citizen CITILED CL-L233 13w

Luminous Flux 4000K 1055 lm
Luminous Flux 3000K 960 lm

15°

Round

117 / 174

Square

117 / 160
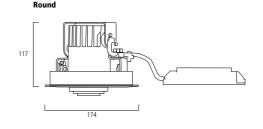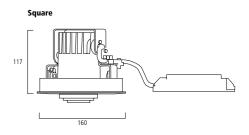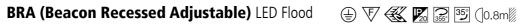
BRA (Beacon Recessed Adjustable)
Spotlights

BRA (Beacon Recessed Adjustable) LED Flood

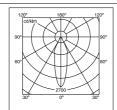- New high output high efficiency LED recessed adjustable fixtures
- IR/UV – free light source without heat radiation
- Cutting-edge cooling fin design to maximise on thermal management and reduction of LED junction temperature
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
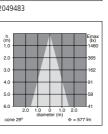- Long life up to 50K hours, fit and forget maintenance free lighting solution
- Dimmable options including phase dimming via leading or trailing edge dimmers or DALI as standard
- Choice of colour temperatures warm 3000K & neutral 4000K
- Available with either square or round mounting plates
- Offers complete flexibility with 35° tilt facility and 355° rotation
- Available in 15° spot or 30° flood options
- Ideal for accent lighting and shop lighting applications
- Luminaires supplied complete with LED drivers

BRA	Trim	3000K	4000K	
BRA LED White Flood	Round	**2049475**	**2049477**	1.0kg
BRA LED White Flood Dim	Round	**2049479**	**2049481**	1.0kg
BRA LED White Flood DALI	Round	**2020753**	**2020755**	1.0kg
BRA LED White Flood	Square	**2049483**	**2049485**	1.0kg
BRA LED White Flood Dim	Square	**2049487**	**2049489**	1.0kg
BRA LED White Flood DALI	Square	**2020757**	**2020759**	1.0kg

2049483

Citizen CITILED CL-L233 13w

Luminous Flux 4000K 1055 lm
Luminous Flux 3000K 960 lm

30°

h (m)	Emax (lx)
1.0	1460
2.0	365
3.0	162
4.0	91
5.0	58
6.0	41

cone 29°   Φ = 577 lm
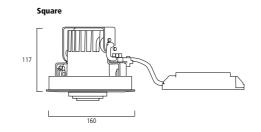
Accessories

Beacon Flood Lens (To give 40deg beam)   **2049499**

Round

117   174

Square

117   160

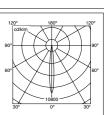## BRA (Beacon Recessed Adjustable)
CMI-Tmini - Spot

- Compact high output recessed adjustable downlight
- 20W & 35W CMI-Tmini / CMH Supermini lamp options
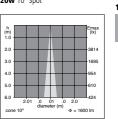- Luminaires complete with compact lightweight electronic control gear
- Robust twist and lock GU6.5 lamp base
- Available with either square or circular mounting plates
- Offers complete flexibility with 35° tilt and 355° rotation
- Available in 10° spot or 30° flood options
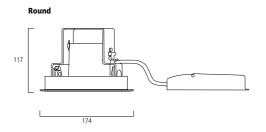- Ideal for accent lighting and shop lighting applications
- **Order lamp separately**

	Trim			
Beacon REC ADJ 20w CMI-Tmini / CMH - Supermini White Spot	Round	**2049490**		1.0kg
Beacon REC ADJ 35w CMI-Tmini / CMH - Supermini White Spot	Round	**2049492**		1.0kg
Beacon REC ADJ 20w CMI-Tmini / CMH - Supermini White Spot	Square	**2049494**		1.0kg
Beacon REC ADJ 35w CMI-Tmini / CMH - Supermini White Spot	Square	**2049496**		1.0kg

CMI-Tmini/CMH-Supermini 6.5 20/35w

20w = 1600 lm
35w = 3300 lm

20w 10° Spot

10°

h (m)	Emax (lx)
1.0	15257
2.0	3814
3.0	1695
4.0	954
5.0	610
6.0	424

cone 10°   Φ = 1600 lm

Round

117   174

Square

117   160

BRA (Beacon Recessed Adjustable)

CMI-Tmini - Flood

- Compact high output recessed adjustable downlight
- 20W & 35W CMI-Tmini / CMH Supermini lamp options
- Luminaires complete with compact lightweight electronic control gear
- Robust twist and lock GU6.5 lamp base
- Available with either square or circular mounting plates
- Offers complete flexibility with 35° tilt and 355° rotation
- Available in 10° spot or 30° flood options
- Ideal for accent lighting and shop lighting applications]
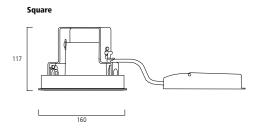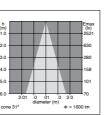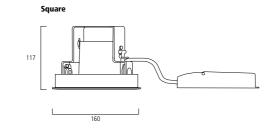- **Order lamp separately**

Beacon REC ADJ 20w CMI-Tmini / CMH - Supermini White Flood	Trim Round	**2049491**	1.0kg
Beacon REC ADJ 35w CMI-Tmini / CMH - Supermini White Flood	Trim Round	**2049493**	1.0kg
Beacon REC ADJ 20w CMI-Tmini / CMH - Supermini White Flood	Trim Square	**2049495**	1.0kg
Beacon REC ADJ 35w CMI-Tmini / CMH - Supermini White Flood	Trim Square	**2049497**	1.0kg

CMI-Tmini/CMH-Supermini 6.5 20/35w
20w = 1600 lm
35w = 3300 lm

20w 30° Flood

30°

h (m)	Emax (lx)
1.0	2521
2.0	630
3.0	280
4.0	158
5.0	101
6.0	70

cone 31° Φ = 1600 lm

Round

117

174

Square

117

160

BRA (Beacon Recessed Adjustable) CMI-Tmini/CMH-Super Mini Accessories
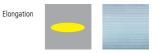
Interchangeable Safety Lenses
Elongation Lens   5:1   **2047193**
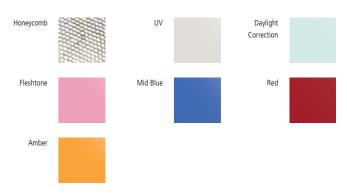
Optional Filters

Honeycomb	Not to be used in combination with colour filters	**2047194**
UV	100% UVB/C and 70% UVA protection	**2047195**
Daylight	Converts 3000k to 6000k	**2047196**
Flesh Tone	Enhances the appearance of flesh tone, vegetables and meat	**2047197**
Mid Blue		**2047198**
Red		**2047199**
Amber		**2047200**

Interchangeable Safety Lenses

Elongation

Optional Filters

Honeycomb

UV

Daylight Correction

Fleshtone

Mid Blue

Red

Amber

Beacon High Output
Spotlights

Beacon High Output Spot

- Contemporary all die-cast design and construction
- Beacon High Output introduces a new concept in reflector design using 99.98% super pure aluminium
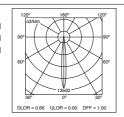- High output super efficient spotlight range for 20, 35 & 70W CMI-T lamps
- The highly efficient optics used for both spot and flood versions means it is possible to use lower wattage lamps and still achieve similar light intensity levels.
- Beacon HO provides the ultimate energy saving solution for shop lighting applications

20W Spot

		L1	L3	
Beacon 20W CDM-T	White	**2050701**	**2050698**	1.42kg
Beacon 20W CDM-T	Silver	**2050702**	**2050699**	1.42kg
Beacon 20W CDM-T	Black	**2050703**	**2050700**	1.42kg

CMI/CDM-T
20W G12
20W = 2200 lm

DLOR = 0.66   ULOR = 0.00   DFF = 1.00

10°

h (m): 1.0 / 2.0 / 3.0 / 4.0 / 5.0 / 6.0 — Emax (lx): 6298 / 2799 / 1574 / 1008 / 700
cone 10°
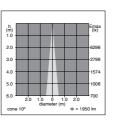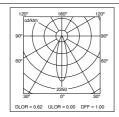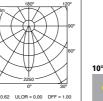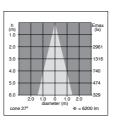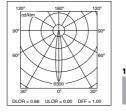
35W Spot

		L1	L3	
Beacon 35W CDM-T	White	**2050713**	**2050710**	1.42kg
Beacon 35W CDM-T	Silver	**2050714**	**2050711**	1.42kg
Beacon 35W CDM-T	Black	**2050715**	**2050712**	1.42kg

CMI/CDM-T
35W G12
35W = 3400 lm

DLOR = 0.62   ULOR = 0.00   DFF = 1.00

10°

h (m): 1.0 / 2.0 / 3.0 / 4.0 / 5.0 / 6.0 — Emax (lx): 2961 / 1316 / 740 / 474 / 329
cone 26°   Φ = 6200 lm
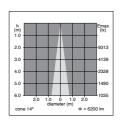
70W Spot

		L1	L3	
Beacon 70W CDM-T	White	**2050725**	**2050722**	1.42kg
Beacon 70W CDM-T	Silver	**2050726**	**2050723**	1.42kg
Beacon 70W CDM-T	Black	**2050727**	**2050724**	1.42kg

CMI/CDM-T
70W G12
70W = 6200 lm

DLOR = 0.66   ULOR = 0.00   DFF = 1.00

10°

h (m): 1.0 / 2.0 / 3.0 / 4.0 / 5.0 / 6.0 — Emax (lx): 9313 / 4139 / 2328 / 1490 / 1035
cone 14°   Φ = 6200 lm

Monopoint
For surface mounting on to ceiling and walls
Three Circuit   **3020010   3020030**

184.1
118Ø

Beacon High Output Flood

- Contemporary all die-cast design and construction
- Beacon High Output introduces a new concept in reflector design using 99.98% super pure aluminium
- High output super efficient spotlight range for 20, 35 & 70W CMI-T lamps
- The highly efficient optics used for both spot and flood versions means it is possible to use lower wattage lamps and still achieve similar light intensity levels.
- Beacon HO provides the ultimate energy saving solution for shop lighting applications
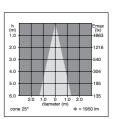
20W Flood

		L1	L3	
Beacon 20W CDM-T	White	**2050707**	**2050704**	1.42kg
Beacon 20W CDM-T	Silver	**2050708**	**2050705**	1.42kg
Beacon 20W CDM-T	Black	**2050709**	**2050706**	1.42kg

CMI/CDM-T
20W G12
20W = 2200 lm

DLOR = 0.63   ULOR = 0.00   DFF = 1.00

25°

h (m): 1.0 / 2.0 / 3.0 / 4.0 / 5.0 / 6.0 — Emax (lx): 4863 / 1216 / 540 / 304 / 195 / 135
cone 25°   Φ = 1950 lm
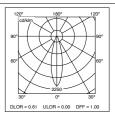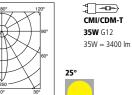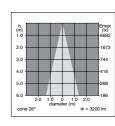
35W Flood

		L1	L3	
Beacon 35W CDM-T	White	**2050719**	**2050716**	1.42kg
Beacon 35W CDM-T	Silver	**2050720**	**2050717**	1.42kg
Beacon 35W CDM-T	Black	**2050721**	**2050718**	1.42kg

CMI/CDM-T
35W G12
35W = 3400 lm

DLOR = 0.61   ULOR = 0.00   DFF = 1.00

25°

h (m): 1.0 / 2.0 / 3.0 / 4.0 / 5.0 / 6.0 — Emax (lx): 6692 / 1673 / 744 / 418 / 268 / 186
cone 26°   Φ = 3200 lm

70W Flood
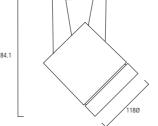
|		L1	L3	
Beacon 70W CDM-T	White	**2050731**	**2050728**	1.42kg
Beacon 70W CDM-T	Silver	**2050732**	**2050729**	1.42kg
Beacon 70W CDM-T	Black	**2050733**	**2050730**	1.42kg

CMI/CDM-T
70W G12
70W = 6200 lm

DLOR = 0.62   ULOR = 0.00   DFF = 1.00

25°

h (m): 1.0 / 2.0 / 3.0 / 4.0 / 5.0 / 6.0 — Emax (lx): 2961 / 1316 / 740 / 474 / 329
cone 27°   Φ = 6200 lm

Monopoint
For surface mounting on to ceiling and walls
Three Circuit   **3020010   3020030**

184.1
118Ø

Beacon CMI/CDM-T 35 & 70w Spot

- Contemporary, all die-cast design
- Compact electronic control gear
- No back light, lamp is fully enclosed at rear
- Robust G12 base CMI/CDM-T ceramic metal halide capsule lamp
- Range of filters and honeycomb accessory to customise display or accent interiors
- Available complete with spot or flood safety lens
- Interchangeable safety lenses determine beam angle
- **Order lamp separately**
- **Safety lenses must be used**
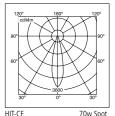
Beacon CMI/CDM-T 35w		White	Silver	Black	
35w HIT-CE with spot safety lens	Single Circuit	2046412	2046413	2046414	1.42kg
35w HIT-CE with spot safety lens	Three Circuit	2046418	2046419	2046420	1.42kg

HIT-CE   35w Spot

CDM-T CMI-T/HIT-CE
35w G12
35w = 3400 lm

13°

cone 13°   Φ = 3400 lm
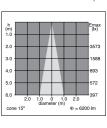
Beacon CMI/CDM-T 70w		White	Silver	Black	
70w HIT-CE with spot safety lens	Single Circuit	2046424	2046425	2046426	1.42kg
70w HIT-CE with spot safety lens	Three Circuit	2046430	2046431	2046432	1.42kg
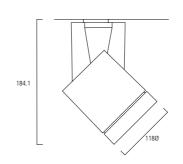
HIT-CE   70w Spot

CDM-T CMI-T/HIT-CE
70w G12
70w = 6200 lm

15°

cone 15°   Φ = 6200 lm

Monopoint
For surface mounting on to ceiling and walls
Three Circuit   3020010   3020030

184.1

118Ø
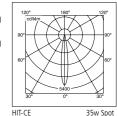
**Beacon CMI/CDM-T
35 & 70w**
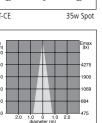Spotlights

Beacon CMI/CDM-T 35w & 70w Flood

- Contemporary, all die-cast design
- Compact electronic control gear
- No back light, lamp is fully enclosed at rear
- Robust G12 base CMI/CDM-T ceramic metal halide capsule lamp
- Range of filters and honeycomb accessory to customise display or accent interiors
- Available complete with spot or flood safety lens
- Interchangeable safety lenses determine beam angle
- **Order lamp separately**
- **Safety lenses must be used**

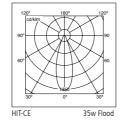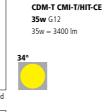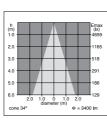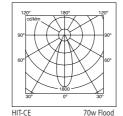| Beacon CMI/CDM-T 35w		White	Silver	Black	
35w HIT-CE with flood safety lens	Single Circuit	2046415	2046416	2046417	1.42kg
35w HIT-CE with flood safety lens	Three Circuit	2046421	2046422	2046423	1.42kg
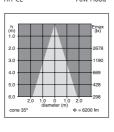
HIT-CE   35w Flood

34°

**CDM-T CMI-T/HIT-CE
35w** G12
35w = 3400 lm

cone 34°   Φ = 3400 lm

h (m)		Emax (lx)
1.0		4659
2.0		1165
3.0		518
4.0		291
5.0		186
6.0		129

Beacon CMI/CDM-T 70w		White	Silver	Black	
70w HIT-CE with flood safety lens	Single Circuit	2046427	2046428	2046429	1.42kg
70w HIT-CE with flood safety lens	Three Circuit	2046433	2046434	2046435	1.42kg

HIT-CE   70w Flood

35°

**CDM-T CMI-T/HIT-CE
70w** G12
70w = 6200 lm

cone 35°   Φ = 6200 lm

h (m)		Emax (lx)
1.0		
2.0		2678
3.0		1190
4.0		669
5.0		428
6.0		298

Monopoint
For surface mounting on to ceiling and walls

Three Circuit	3020010	3020030

184.1

118Ø

Beacon CMI/CDM-T 35 & 70w Accessories

- Interchangeable safety lenses provide beam angles from 13-35°
- Elongation safety lens for highlighting sculptures, mannequins, logos and shelving
- Coloured filters for creating dramatic effects and highlighting displays
- Honeycomb filter for effective glare control
- A combination of accessories can be fitted but must always include a safety lens next to the lamp

Interchangeable Safety Lenses

CMI/CDM-T	35w	70w	
Spot Lens	13°	15°	2027238
Medium Lens	16°	18°	2033450
Flood Lens	34°	35°	2027234
Elongation Lens	5:1	5:1	2027239

Optional Filters

Honeycomb	Not to be used in combination with colour filters	2027240
UV	100% UVB/C and 70% UVA protection	2027241
Daylight	Converts 3000k to 6000k	2027246
Flesh Tone	Enhances the appearance of flesh tone, vegetables & meat	2032127
Mid Blue		2032128
Red		2027244
Amber		2027245

Interchangeable Safety Lenses

Spot

Elongation

Medium

Flood

Optional Filters

Honeycomb

UV

Daylight Correction

Fleshtone

Mid Blue

Red

Amber

Beacon CMI-Tmini/CMH-Super Mini Spot

- Versatile slim minimalist, all die cast design
- Powerful display spotlight with a choice of 10° spot or 30° flood
- Compact lightweight integral electronic ballast
- No back light, lamp is fully enclosed at rear
- Robust twist and lock GU6.5 lamp base
- Accessories include a honeycomb, elongation, coloured, UV and daylight filters
- **Order lamp separately**

Beacon CMI-Tmini/CMH-Supermini 20w

		White	Silver	Black	
20w 10° Spot	Three Circuit	**2046670**	**2046671**	**2046672**	0.90kg
20w 10° Spot	Single Circuit	**2046673**	**2046674**	**2046675**	0.90kg

20w 10° Spot

**CMI-Tmini/CMH Supermini
20w** GU6.5
20w = 1615 lm

10°

Beacon CMI-Tmini/CMH-Supermini 35w
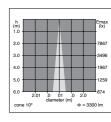
		White	Silver	Black	
35w 10° Spot	Three Circuit	**2046682**	**2046683**	**2046684**	0.90kg
35w 10° Spot	Single Circuit	**2046685**	**2046686**	**2046687**	0.90kg

35w 10° Spot

**CMI-Tmini/CMH Supermini
35w** GU6.5
35w = 3300 lm

10°

Monopoint For surface mounting on to ceiling and walls

Single Circuit	**3020060**	**3020070**
Three Circuit	**3020010**	**3020030**

142

80Ø

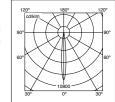## Beacon CMI-Tmini/
CMH-Super Mini
Spotlights

- Versatile slim minimalist, all die cast design
- Powerful display spotlight with a choice of 10° spot or 30° flood
- Compact lightweight integral electronic ballast
- No back light, lamp is fully enclosed at rear
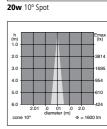- Robust twist and lock GU6.5 lamp base
- Accessories include a honeycomb, elongation, coloured, UV and daylight filters
- **Order lamp separately**
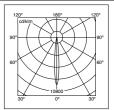
Beacon CMI-Tmini/CMH-Supermini 20w

		White	Silver	Black	
20w 30° Flood	Three Circuit	**2046676**	**2046677**	**2046678**	0.90kg
20w 30° Flood	Single Circuit	**2046679**	**2046680**	**2046681**	0.90kg

CMI-Tmini/CMH Supermini 20w GU6.5
20w = 1615 lm

20w 30° Flood

30°

cone 31°   Φ = 1600 lm

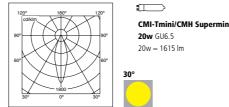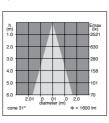| h (m)		Emax (lx)
1.0		2521
2.0		630
3.0		280
4.0		158
5.0		101
6.0		70

Beacon CMI-Tmini/CMH-Supermini 35w
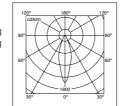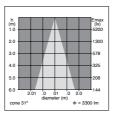
		White	Silver	Black	
35w 30° Flood	Three Circuit	**2046688**	**2046689**	**2046690**	0.90kg
35w 30° Flood	Single Circuit	**2046691**	**2046692**	**2046693**	0.90kg

CMI-Tmini/CMH Supermini 35w GU6.5
35w = 3300 lm

35w 30° Flood

30°

cone 31°   Φ = 3300 lm

h (m)		Emax (lx)
1.0		5200
2.0		1300
3.0		578
4.0		325
5.0		208
6.0		144

Monopoint For surface mounting on to ceiling and walls

Single Circuit		**3020060**	**3020070**
Three Circuit		**3020010**	**3020030**

142
80Ø

Interchangeable Safety Lenses

Elongation Lens	5:1	**2047193**	

Optional Filters

Honeycomb	Not to be used in combination with colour filters	**2047194**
UV	100% UVB/C and 70% UVA protection	**2047195**
Daylight	Converts 3000k to 6000k	**2047196**
Flesh Tone	Enhances the appearance of flesh tone, vegetables and meat	**2047197**
Mid Blue		**2047198**
Red		**2047199**
Amber		**2047200**

Interchangeable Safety Lenses

Elongation

Optional Filters

Honeycomb

UV

Daylight Correction

Fleshtone

Mid Blue

Red

Amber

Beacon Low Energy 26/32/42w TC-TEL

- Contemporary design, die cast and spun aluminium
- A low energy spotlight with highly reflective, iridescence-free reflector
- Glare-free from most viewing angles giving an even soft edged beam
- Compact fluorescent lamp options, energy efficient
- Long lamp life reducing running and maintenance costs
- **Supplied complete with Sylvania Lynx-TE 32w 840 4000K lamp**

Beacon TC/TE		White	Silver	Black	
26/32/42w Lynx-TEL	Single Circuit	**2046711**	**2046712**	**2046713**	1.10kg
26/32/42w Lynx-TEL	Three Circuit	**2046707**	**2046709**	**2046710**	1.10kg

Accessories	
Black Glare Cowl	**2047189**

50w 10° Spot

Lynx-TE TC-TEL
26/32/42w XXX
26w = 1800 lm
32w = 2400 lm
42w = 3200 lm

cone 85°   Φ = 3200 lm

Monopoint	For surface mounting on to ceiling and walls		
Single Circuit		**3020060**	**3020070**
Three Circuit		**3020010**	**3020030**

271.3

195Ø

Beacon Low Energy TC/TEL
Spotlights

Beacon Low Voltage 50w Capsule Spot

- Versatile slim minimalist, all die-cast design
- Available as a 10° spot or a 30° flood
- Compact integral, voltage regulated electronic transformer
- Collectively dimmable using leading and trailing edge dimming systems
- No back light, lamp is fully enclosed at rear
- Accepts up to 50w low voltage TH capsule lamps
- Accessories include a honeycomb, elongation, coloured, UV and daylight filters
- **Supplied complete with Sylvania 12v 50w low pressure TH lamp**

Beacon Low Voltage 50w Capsule

		White	Silver	Black	
50w TH 10° Spot	Single Circuit	**2046697**	**2046698**	**2046699**	0.70kg
50w TH 10° Spot	Three Circuit	**2046694**	**2046695**	**2046696**	0.70kg

QT 12-LPax
50w GY6.35
50w = 1000 lm

10°

50w 10° Spot

cone 10°   Φ = 950 lm

Monopoint For surface mounting on to ceiling and walls

	White	Silver
Single Circuit	**3020060**	**3020070**
Three Circuit	**3020010**	**3020030**

Beacon Low Voltage Capsule and Dichroic Spotlights

138.2
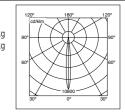
80Ø

Beacon Low Voltage 50w Capsule Flood

- Versatile slim minimalist, all die-cast design
- Available as a 10° spot or a 30° flood
- Compact integral, voltage regulated electronic transformer
- Collectively dimmable using leading and trailing edge dimming systems
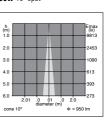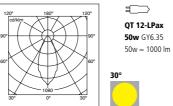- No back light, lamp is fully enclosed at rear
- Accepts up to 50w low voltage TH capsule lamps
- Accessories include a honeycomb, elongation, coloured, UV and daylight filters
- **Supplied complete with Sylvania 12v 50w low pressure TH lamp**

Beacon Low Voltage 50w Capsule
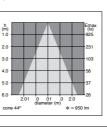
		White	Silver	Black	
50w TH 30° Flood	Single Circuit	**2046704**	**2046705**	**2046706**	0.70kg
50w TH 30° Flood	Three Circuit	**2046701**	**2046702**	**2046703**	0.70kg
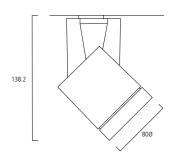
QT 12-LPax
50w GY6.35
50w = 1000 lm

50w 30° Flood

30°

Monopoint For surface mounting on to ceiling and walls

	White	Silver
Single Circuit	**3020060**	**3020070**
Three Circuit	**3020010**	**3020030**

138.2

80Ø

Beacon CMI-Tmini/CMH-Supermini & Low Voltage 50w Capsule
Accessories
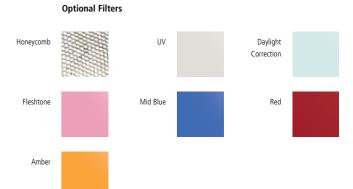
- Elongation safety lens for highlighting sculptures, mannequins, logos and shelving
- Coloured filters for creating dramatic effects and highlighting displays
- Honeycomb filter, screw-fit glare shield and barn door accessories for
- effective glare control
- A combination of accessories can be fitted but must always include a safety lens next to the lamp

Interchangeable Safety Lenses

Elongation Lens		5:1	**2047193**

Optional Filters

Honeycomb	Not to be used in combination with colour filters	**2047194**
UV	100% UVB/C and 70% UVA protection	**2047195**
Daylight	Converts 3000k to 6000k	**2047196**
Flesh Tone	Enhances the appearance of flesh tone, vegetables and meat	**2047197**
Mid Blue		**2047198**
Red		**2047199**
Amber		**2047200**

Interchangeable Safety Lenses

Elongation

Optional Filters

Honeycomb

UV

Daylight Correction

Fleshtone

Mid Blue

Red

Amber

Beacon Low Voltage

- Slim minimalist, all die-cast design
- Compact electronic transformer
- No back light, lamp is fully enclosed at rear
- 20 – 50w dichroic lamps
- Collectively dimmable using trailing and leading edge dimming systems
- **Order lamp separately**
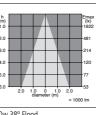
Beacon Hi Spot ES50	White	Silver	Black	
50w QR-CBC51 Single Circuit	**2041897**	**2041898**	**2041899**	0.58kg
50w QR-CBC51 Three Circuit	**2041900**	**2041901**	**2041902**	0.58kg
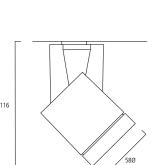
h (m)
1.0
2.0
3.0
4.0
5.0
6.0

Emax (lx)
9549
2387
1061
597
382
265

2.0 1.0 0 1.0 2.0
diameter (m)
= 1000 lm

10°

50w 10° Spot

h (m)
1.0
2.0
3.0
4.0
5.0
6.0

Emax (lx)
1922
481
214
120
77
53

2.0 1.0 0 1.0 2.0
diameter (m)
= 1000 lm

38°

50w 38° Flood

Superia 50 QR-CBC51
50w GU5.3
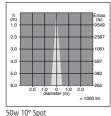50w = 1000 lm

Monopoint For surface mounting on to ceiling and walls

Single Circuit	**3020060**	**3020070**
Three Circuit	**3020010**	**3020030**

Accessories

Chrome Cowl/Ring	**2045808**

116

58Ø

Beacon BriteSpot ES50 Metal Halide
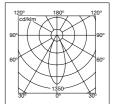
- Slim minimalist, all die-cast design
- Compact electronic control gear
- No back light, lamp is fully enclosed at rear
- Quartz metal halide reflector lamp technology from Sylvania
- Robust GX10 lamp base for easy lamp replacement
- Excellent colour rendering
- Twice the output of a 50w dichroic lamp
- **Order lamp separately**
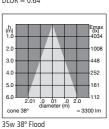
Beacon Britespot ES50	White	Silver	Black	
35w HI-Par51 Single Circuit	**2041903**	**2041904**	**2041905**	0.72kg
35w HI-par51 Three Circuit	**2041906**	**2041907**	**2041908**	0.72kg

120° 180° 120°
cd/klm
90° 90°
60° 60°
30° 0° 30°
1350

DLOR = 0.64

h (m)
1.0
2.0
3.0
4.0
5.0
6.0

Emax (lx)
4034
1008
448
252
161
112

2.0 1.0 0 1.0 2.0
diameter (m)
cone 38° = 3300 lm

38°

35w 38° Flood

BriteSpot ES50 HIPAR51
35w GX10
35w = 3269 lm
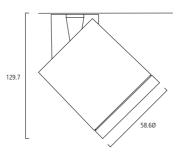
Optional Chrome Cowl

Monopoint For surface mounting on to ceiling and walls

Single Circuit	**3020060**	**3020070**
Three Circuit	**3020010**	**3020030**

Accessories

Chrome Cowl/Ring	**2045807**

129.7

58.6Ø
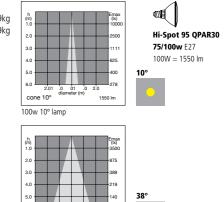
Beacon 100w Hi-Spot 95
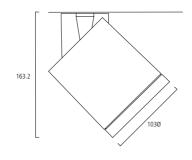
- Contemporary, all die-cast design
- Crisp halogen light without the need for transformer
- No back light, lamp is fully enclosed at rear
- Simple E27 lamp base allow easy lamp replacement
- Energy saving solutions with Sylvania retrofit PAR30 E27 LED HI-SPOT RefLED lamps
- **Order lamp separately**

Beacon Hi Spot 95		White	Silver	Black	
100w QPar30	Single Circuit	**2041891**	**2041892**	**2041893**	0.59kg
100w QPar30	Three Circuit	**2041894**	**2041895**	**2041896**	0.59kg

Hi-Spot 95 QPAR30
75/100w E27
100W = 1550 lm

10°

38°

100w 10° lamp

100w 30° lamp

Monopoint For surface mounting on to ceiling and walls		
Single Circuit	**3020060**	**3020070**
Three Circuit	**3020010**	**3020030**

163.2

103Ø

Beacon Mains Voltage
Spotlights

Beacon – Mains voltage 50w Hi-Spot ES50
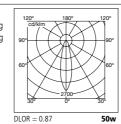
- Slim minimalist, all die-cast design
- Crisp halogen light without the need for transformer
- No back light, lamp is fully enclosed at rear
- Robust GU10 lamp base for easy lamp replacement
- Energy saving solutions with Sylvania retrofit ES50 GU10
  LED HI-SPOT RefLED lamps
- **Order lamp separately**
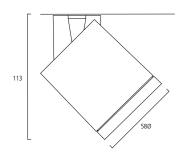
| Beacon Hi Spot ES50		White	Silver	Black	
50w QPar16	Single Circuit	**2041879**	**2041880**	**2041881**	0.41kg
50w QPar16	Three Circuit	**2041882**	**2041883**	**2041884**	0.41kg

cd/klm
120° 180° 120°
90° 90°
60° 60°
2700
30° 0° 30°

DLOR = 0.87　　**50w**

Hi-Spot ES50 QPAR16
50w GU10
50W = 525 lm

h (m)		Emax (lx)
1.0		1320
2.0		330
3.0		147
4.0		83
5.0		53
6.0		37

2.0 1.0 0 1.0 2.0
diameter (m)
cone 25.3°　　= 525 lm

25°

Monopoint For surface mounting on to ceiling and walls

Single Circuit	**3020060**	**3020070**
Three Circuit	**3020010**	**3020030**

113

58Ø

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