

Project Name:	Type:
Part Number:	Date:









# REFINE MR16 FAMILY

## FEATURES







- Suitable to replace 42W, 50W, and 75W halogen MR16 lamps
- Powered by TRUE CHROMA (CRI $\geq$ 95, Rf $\geq$ 93, R9 $\geq$ 50, SDCM $\leq$ 3)
- Proprietary REFINE lens enables powerful light output without glare
- 10°, 15°, 25°, 35° beam angles
- Meets ANSI halogen MR16 size requirements
- Dimmable with forward and reverse phase controls\*
- Suitable for use in damp locations and totally enclosed fixtures
- Fixture operating temperature: -13°F to 95°F (-25°C to 35°C)
- Lamp ambient temperature: -13°F to 113°F (-25°C to 45°C)
- Rated Lifetime (L70): 25,000hrs
- Industry leading 5 year warranty\*\*
- Compatible with TRUE BEAM accessories\*\*\*



## SPECIFICATIONS - 42W / 50W Equivalent GU5.3

Product	Model	Equiv.	Wattage (W)	CCT	Lumens (lm)	Efficacy (LPW)	Input Voltage	Beam Angle	CBCP (cd)	CRI	Dim.*	Power Factor	Base	Fixture Rating	TRUE CHROMA	ES / JA8 / T20
36114	7.5MR16DIM/927SP10/RC	42W	7.5	2700K	530	71	12V	10°	7,000	95	Yes	0.9	GU5.3	Enclosed		- / - / -
36117	7MR16DIM/927SP15/RC	50W	7	2700K	490	70	12V	15°	5,145	95	Yes	0.9	GU5.3	Enclosed		- / - / -
36118	7MR16DIM/927NF25/RC	50W	7	2700K	490	70	12V	25°	2,800	95	Yes	0.9	GU5.3	Enclosed		- / - / -
36119	7MR16DIM/927FL35/RC	50W	7	2700K	490	70	12V	35°	1,425	95	Yes	0.9	GU5.3	Enclosed		- / - / -
36115	7.5MR16DIM/930SP10/RC	42W	7.5	3000K	540	72	12V	10°	7,200	95	Yes	0.9	GU5.3	Enclosed		- / - / -
36120	7MR16DIM/930SP15/RC	50W	7	3000K	500	71	12V	15°	5,250	95	Yes	0.9	GU5.3	Enclosed		- / - / -
36121	7MR16DIM/930NF25/RC	50W	7	3000K	500	71	12V	25°	2,900	95	Yes	0.9	GU5.3	Enclosed		- / - / -
36122	7MR16DIM/930FL35/RC	50W	7	3000K	500	71	12V	35°	1,450	95	Yes	0.9	GU5.3	Enclosed		- / - / -
36116	7.5MR16DIM/940SP10/RC	42W	7.5	4000K	550	73	12V	10°	7,400	95	Yes	0.9	GU5.3	Enclosed	NO	- / - / -
36123	7MR16DIM/940FL35/RC	50W	7	4000K	510	73	12V	35°	1,480	95	Yes	0.9	GU5.3	Enclosed	NO	- / - / -

## SPECIFICATIONS - 75W Equivalent GU5.3

Product	Model	Equiv.	Wattage (W)	CCT	Lumens (lm)	Efficacy (LPW)	Input Voltage	Beam Angle	CBCP (cd)	CRI	Dim.*	Power Factor	Base	Fixture Rating	TRUE CHROMA	ES / JA8 / T20
36124	7.5MR16DIM/927SP15/RC	75W	7.5	2700K	530	71	12V	15°	5,570	95	Yes	0.9	GU5.3	Enclosed		- / - / -
36125	7.5MR16DIM/927NF25/RC	75W	7.5	2700K	530	71	12V	25°	3,000	95	Yes	0.9	GU5.3	Enclosed		- / - / -
36126	7.5MR16DIM/927FL35/RC	75W	7.5	2700K	530	71	12V	35°	1,540	95	Yes	0.9	GU5.3	Enclosed		- / - / -
36127	7.5MR16DIM/930SP15/RC	75W	7.5	3000K	540	72	12V	15°	5,670	95	Yes	0.9	GU5.3	Enclosed		- / - / -
36128	7.5MR16DIM/930NF25/RC	75W	7.5	3000K	540	72	12V	25°	3,100	95	Yes	0.9	GU5.3	Enclosed		- / - / -
36129	7.5MR16DIM/930FL35/RC	75W	7.5	3000K	540	72	12V	35°	1,560	95	Yes	0.9	GU5.3	Enclosed		- / - / -
36130	7.5MR16DIM/940FL35/RC	75W	7.5	4000K	550	73	12V	35°	1,595	95	Yes	0.9	GU5.3	Enclosed	NO	- / - / -

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Part Number:	Date:



GREENCREATIVE

# REFINE MR16 FAMILY

## SPECIFICATIONS - 42W / 50W Equivalent GU5.3

Product	Model	Equiv.	Wattage (W)	CCT	Lumens (lm)	Efficacy (LPW)	Input Voltage	Beam Angle	CBCP (cd)	CRI	Dim.*	Power Factor	Base	Fixture Rating	TRUE CHROMA	ES / JA8 / T20
35767	7.5MR16DIM/927SP10/R	42W	7.5	2700K	530	71	12V	10°	7,000	95	Yes	0.9	GU5.3	Enclosed		√/√/√
35550	7MR16DIM/927SP15/R	50W	7	2700K	490	70	12V	15°	5,145	95	Yes	0.9	GU5.3	Enclosed		√/√/√
35551	7MR16DIM/927NF25/R	50W	7	2700K	490	70	12V	25°	2,800	95	Yes	0.9	GU5.3	Enclosed		√/√/√
35552	7MR16DIM/927FL35/R	50W	7	2700K	490	70	12V	35°	1,425	95	Yes	0.9	GU5.3	Enclosed		√/√/√
35768	7.5MR16DIM/930SP10/R	42W	7.5	3000K	540	72	12V	10°	7,200	95	Yes	0.9	GU5.3	Enclosed		√/√/√
35553	7MR16DIM/930SP15/R	50W	7	3000K	500	71	12V	15°	5,250	95	Yes	0.9	GU5.3	Enclosed		√/√/√
35555	7MR16DIM/930FL35/R	50W	7	3000K	500	71	12V	35°	1,450	95	Yes	0.9	GU5.3	Enclosed		√/√/√
35769	7.5MR16DIM/940SP10/R	42W	7.5	4000K	550	73	12V	10°	7,400	95	Yes	0.9	GU5.3	Enclosed	NO	√/√/√

## SPECIFICATIONS - 75W Equivalent GU5.3

Product	Model	Equiv.	Wattage (W)	CCT	Lumens (lm)	Efficacy (LPW)	Input Voltage	Beam Angle	CBCP (cd)	CRI	Dim.*	Power Factor	Base	Fixture Rating	TRUE CHROMA	ES / JA8 / T20
35536	7.5MR16DIM/927SP15/R	75W	7.5	2700K	530	71	12V	15°	5,570	95	Yes	0.9	GU5.3	Enclosed		√/√/√
35538	7.5MR16DIM/927FL35/R	75W	7.5	2700K	530	71	12V	35°	1,540	95	Yes	0.9	GU5.3	Enclosed		√/√/√
35539	7.5MR16DIM/930SP15/R	75W	7.5	3000K	540	72	12V	15°	5,670	95	Yes	0.9	GU5.3	Enclosed		√/√/√
35540	7.5MR16DIM/930NF25/R	75W	7.5	3000K	540	72	12V	25°	3,100	95	Yes	0.9	GU5.3	Enclosed		√/√/√
35541	7.5MR16DIM/930FL35/R	75W	7.5	3000K	540	72	12V	35°	1,560	95	Yes	0.9	GU5.3	Enclosed		√/√/√

## SPECIFICATIONS - 50W Equivalent GU10

Product	Model	Equiv.	Wattage (W)	CCT	Lumens (lm)	Efficacy (LPW)	Input Voltage	Beam Angle	CBCP (cd)	CRI	Dim.*	Power Factor	Base	Fixture Rating	TRUE CHROMA	ES / JA8 / T20
35558	5GU10DIM/927NF25	50W	5	2700K	380	76	120V	25°	1,900	95	Yes	0.9	GU10	Enclosed		√/√/√
35559	5GU10DIM/927FL35	50W	5	2700K	380	76	120V	35°	1,105	95	Yes	0.9	GU10	Enclosed		√/√/√
35561	5GU10DIM/930NF25	50W	5	3000K	390	78	120V	25°	1,950	95	Yes	0.9	GU10	Enclosed		√/√/√
35562	5GU10DIM/930FL35	50W	5	3000K	390	78	120V	35°	1,135	95	Yes	0.9	GU10	Enclosed		√/√/√
35563	5GU10DIM/940FL35	50W	5	4000K	400	80	120V	35°	1,160	95	Yes	0.9	GU10	Enclosed	NO	√/√/√

\* This lamp might not be compatible with all dimmers and low-voltage transformers. Please visit [www.greencreative.com](http://www.greencreative.com) for compatibility information.

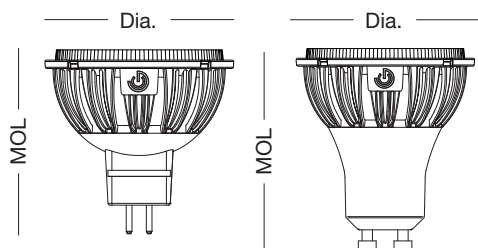
\*\* Please visit [www.greencreative.com](http://www.greencreative.com) for Limited Warranty terms.

\*\*\* To achieve the best performance, we recommend to use our linear/square/wide lenses in combination with our REFINE 10° lamps (36114/36115/36116). Other media can be used with all REFINE MR lamps (36114 to 36130 and 35558 to 35563).



# REFINE MR16 FAMILY

## DIMENSIONS & WEIGHT



Model	Base	MOL	Dia.	Weight
7.5MR16DIM/xxxxyyy/R	GU5.3	1-7/8"	2"	0.11 lb
7.5MR16DIM/xxxxyyy/RC	GU5.3	1-7/8"	2"	0.11 lb
7MR16DIM/xxxxyyy/R	GU5.3	1-7/8"	2"	0.11 lb
7MR16DIM/xxxxyyy/RC	GU5.3	1-7/8"	2"	0.11 lb
5GU10DIM/xxxxyyy	GU10	2-3/16"	2"	0.11 lb

## ORDERING INFORMATION

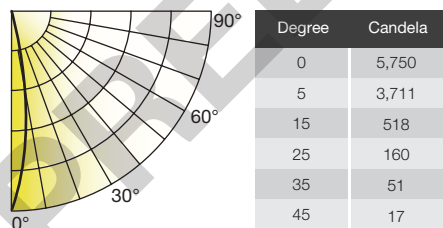
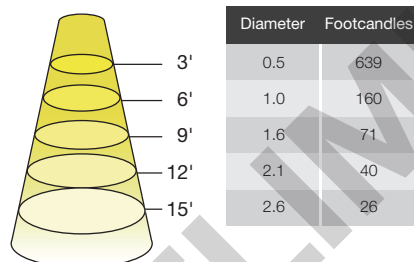
Model	Master Carton			Shipping Carton		
	Case Qty	Case Dimensions (LxWxH)	Case Weight	Case Qty	Case Dimensions (LxWxH)	Case Weight
7.5MR16DIM/xxxxyyy/R 7.5MR16DIM/xxxxyyy/RC 7MR16DIM/xxxxyyy/R 7MR16DIM/xxxxyyy/RC	12PCS	8-7/8" x 6-11/16" x 2-3/4"	1.75 lb	48PCS	13-7/8" x 9-1/4" x 6-5/8"	7.5 lb
5GU10DIM/xxxxyyy	12PCS	8-7/8" x 6-11/16" x 2-15/16"	1.86 lb	48PCS	13-7/8" x 9-1/4" x 7"	8.13 lb

Where xxx means 824-965 which indicates CRI and color temperature  
Where yyyy means beam angle

## ILLUMINANCE & CANDELA DISTRIBUTION

### 42W Equivalence

7.5MR16DIM/930SP10/R  
7.5MR16DIM/930SP10/RC



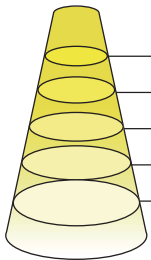


# REFINE MR16 FAMILY

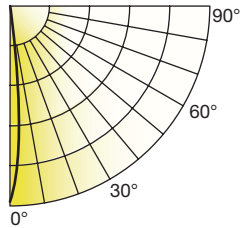
## ILLUMINANCE & CANDELA DISTRIBUTION

50W Equivalence

7MR16DIM/930SP15/R  
7MR16DIM/930SP15/RC

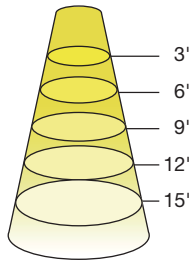


Diameter	Footcandles
0.8	583
1.6	146
2.4	65
3.2	36
3.9	23

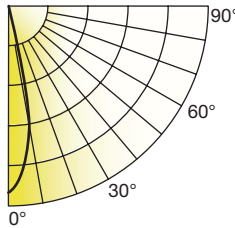


Degree	Candela
0	5,145
5	3,402
15	465
25	84
35	50
45	33

7MR16DIM/930NF25/R  
7MR16DIM/930NF25/RC

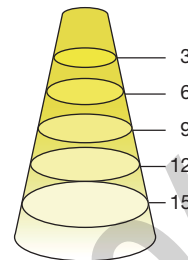


Diameter	Footcandles
1.3	278
2.7	69
4.0	31
5.3	17
6.7	11

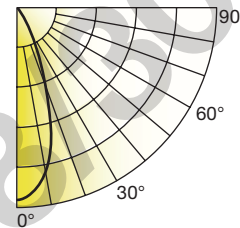


Degree	Candela
0	2,500
5	2,043
15	615
25	113
35	43
45	30

7MR16DIM/930FL35/R  
7MR16DIM/930FL35/RC

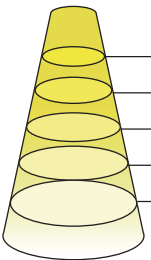


Diameter	Footcandles
1.9	161
3.8	40
5.7	18
7.6	10
9.5	6

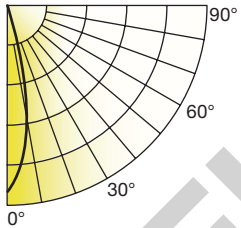


Degree	Candela
0	1,450
5	1,355
15	821
25	491
35	180
45	53

5GU10DIM/930NF25

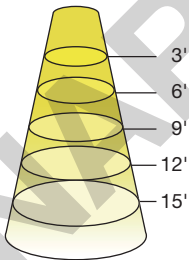


Diameter	Footcandles
1.3	217
3.8	54
5.7	24
7.6	14
9.5	9

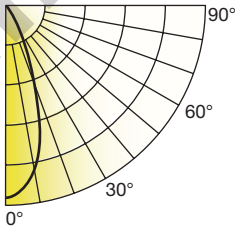


Degree	Candela
0	1,950
5	1,646
15	417
25	91
35	23
45	7

5GU10DIM/930FL35



Diameter	Footcandles
1.9	126
3.8	32
5.7	14
7.6	8
9.5	5



Degree	Candela
0	1,135
5	1,045
15	623
25	153
35	30
45	8

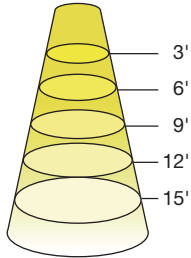


# REFINE MR16 FAMILY

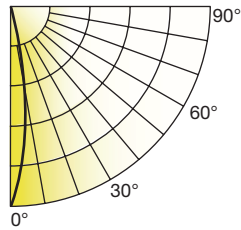
## ILLUMINANCE & CANDELA DISTRIBUTION

75W Equivalence

7.5MR16DIM/930SP15/R  
7.5MR16DIM/930SP15/RC

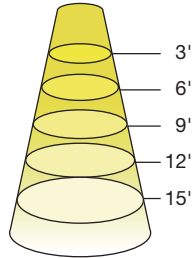


Diameter	Footcandles
0.8	630
1.6	158
2.4	70
3.2	39
3.9	25

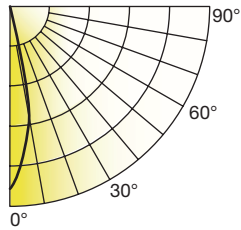


Degree	Candela
0	5,670
5	3,711
15	518
25	160
35	51
45	17

7.5MR16DIM/930NF25/R  
7.5MR16DIM/930NF25/RC

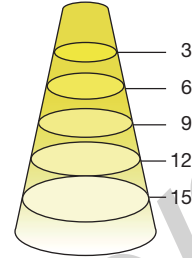


Diameter	Footcandles
1.3	300
2.7	75
4.0	33
5.3	19
6.7	12

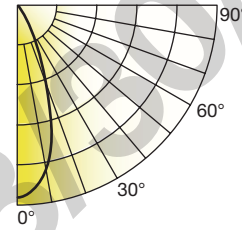


Degree	Candela
0	2,700
5	2,311
15	559
25	122
35	29
45	9

7.5MR16DIM/930FL35/R  
7.5MR16DIM/930FL35/RC



Diameter	Footcandles
1.9	173
3.8	43
5.7	19
7.6	11
9.5	7



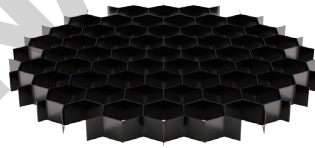
Degree	Candela
0	1,560
5	1,451
15	878
25	210
35	39
45	11

For other CCT use the following multiplier: 3000K .98, 4000K 1.02

## SPECIFICATIONS - TRUE BEAM MR ACCESSORIES

### HONEYCOMB LOUVER

Reduces glare and softens beam patterns.



Product	Model	Description	Cutoff Angle	CBCP of 10° Lamp
35808	MR/ACC/HC	Honeycomb louver	40°	66%



# REFINE MR16 FAMILY

## SPECIFICATIONS - TRUE BEAM MR ACCESSORIES

### SHIFT LENS

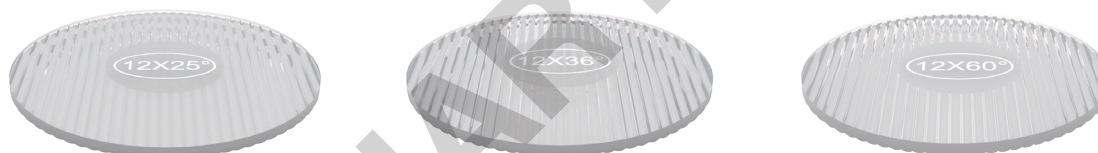
Adjust the feel of any space by adding CCT lens options.



Product	Model	Description	Lumen Transmissivity	CCT Shift Effect
35809	MR/ACC/CCT22	Shift lens 2200K	76%	2700K--->2200K
35810	MR/ACC/CCT24	Shift lens 2400K	82%	2700K--->2400K

### LINEAR DISTRIBUTION LENS

Provides an elliptical linear shaped light distribution.



Product	Model	Description	Lumen Transmissivity	CBCP of 10° Lamp	Field Angle Horiz.	Field Angle Vert.
35815	MR/ACC/LN1225	Linear distribution lens 12x25°	80%	35%	12°	25°
35816	MR/ACC/LN1236	Linear distribution lens 12x36°	80%	23%	12°	36°
35817	MR/ACC/LN1260	Linear distribution lens 12x60°	80%	16%	12°	60°

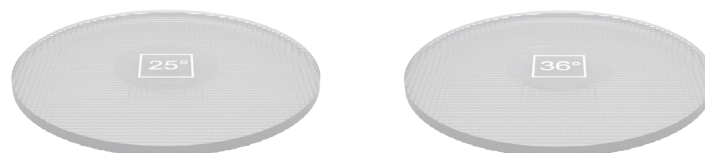


# REFINE MR16 FAMILY

## SPECIFICATIONS - TRUE BEAM MR ACCESSORIES

### SQUARE DISTRIBUTION LENS

Provides a square shaped light distribution.



Product	Model	Description	Lumen Transmissivity	CBCP of 10° Lamp	Field Angle
35818	MR/ACC/SQ2525	Square distribution lens 25°	80%	19%	25°
35819	MR/ACC/SQ3636	Square distribution lens 36°	80%	11%	36°

### WIDE DISTRIBUTION LENS

Maximizes wide distribution illumination for general lighting applications.



Product	Model	Description	Lumen Transmissivity	CBCP of 10° Lamp	Field Angle
35820	MR/ACC/RD6060	Wide distribution lens 60°	78%	6%	60°

### WALL WASH LENS

Bends the beam from 0° to 20° maximum deflection angle while maintaining uniform and consistent color and shape.



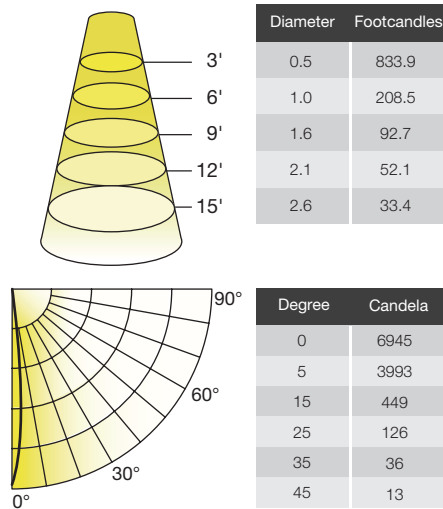
Product	Model	Description	Lumen Transmissivity	CBCP of 10° Lamp	Max. Deflection
35821	MR/ACC/WW10D	Wall wash lens 10°	80%	63%	10°
35822	MR/ACC/WW20D	Wall wash lens 20°	80%	60%	20°



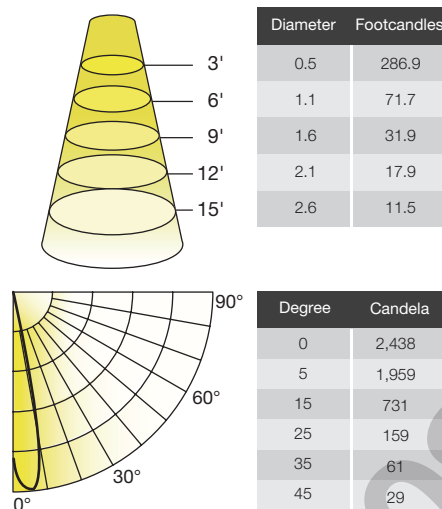
# REFINE MR16 FAMILY

## ILLUMINANCE & CANDELA DISTRIBUTION - LAMP & ACCESSORY

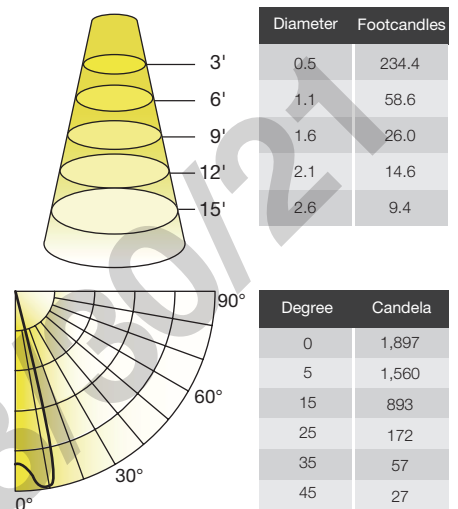
7.5MR16DIM/927SP10/RC



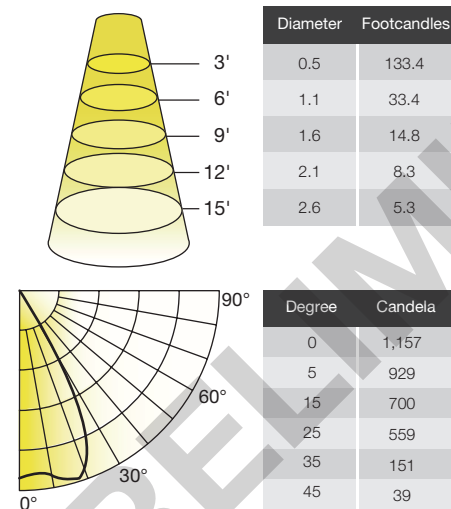
7.5MR16DIM/927SP10/RC + MR/ACC/LN1225



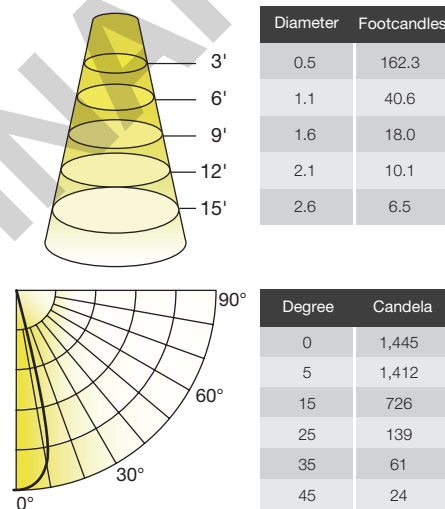
7.5MR16DIM/927SP10/RC + MR/ACC/LN1236



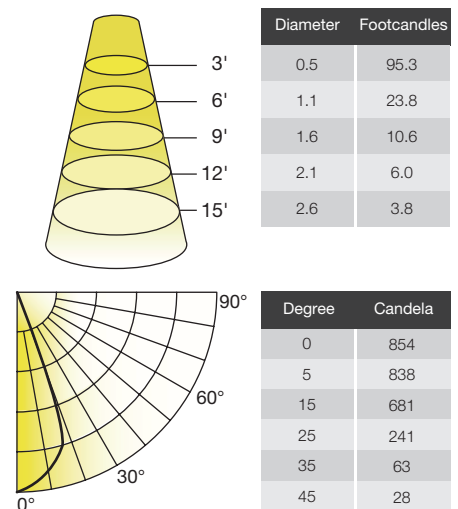
7.5MR16DIM/927SP10/RC + MR/ACC/LN1260



7.5MR16DIM/927SP10/RC + MR/ACC/SQ2525



7.5MR16DIM/927SP10/RC + MR/ACC/SQ3636



For other CCT use the following multiplier: 3000K 1.02, 4000K 1.04.

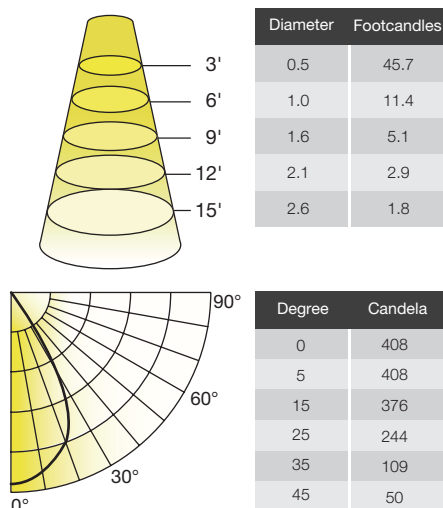




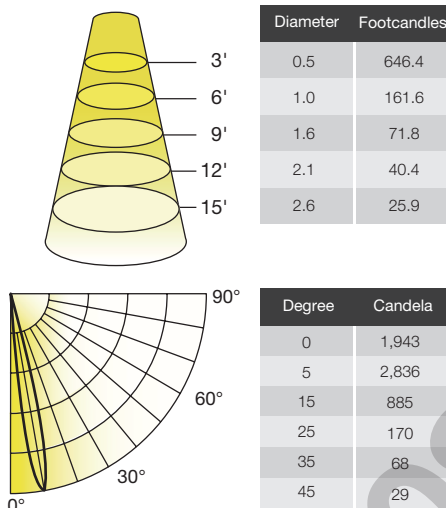
# REFINE MR16 FAMILY

## ILLUMINANCE & CANDELA DISTRIBUTION - LAMP & ACCESSORY

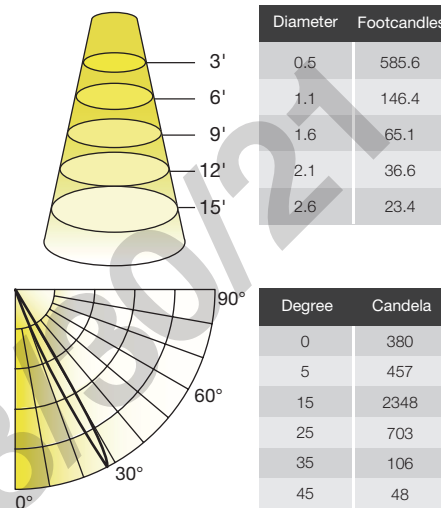
7.5MR16DIM/927SP10/RC  
+ MR/ACC/RD6060



7.5MR16DIM/927SP10/RC  
+ MR/ACC/WW10D



7.5MR16DIM/927SP10/RC  
+ MR/ACC/WW20D

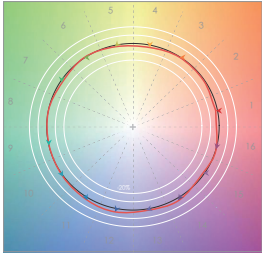
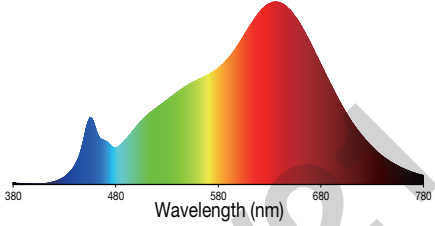
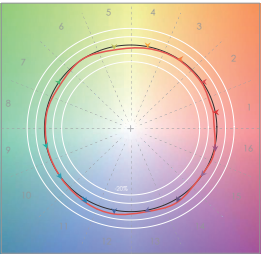
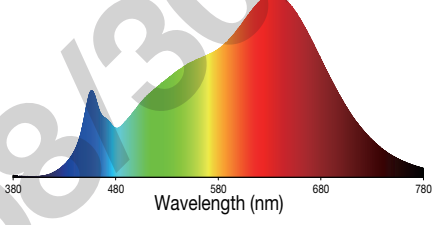
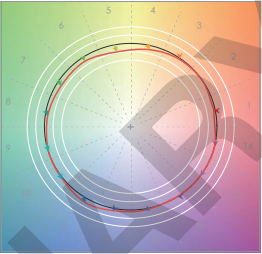
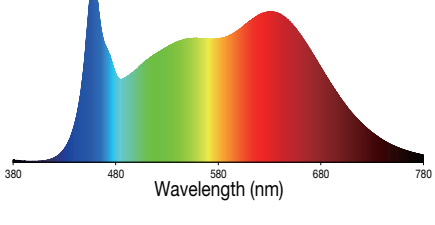


## ORDERING INFORMATION - TRUE BEAM MR ACCESSORIES

Product Series	Master Carton			Shipping Carton		
	Case Qty	Case Dimensions (LxWxH)	Case Weight	Case Qty	Case Dimensions (LxWxH)	Case Weight
MR/ACC/CP1	N.A.	N.A.	N.A.	100PCS	12-1/2" x 6-3/4" x 3-3/8"	1.15lb
MR/ACC/CP2	N.A.	N.A.	N.A.	100PCS	12-1/2" x 9-1/16" x 3-3/8"	1.52lb
MR/ACC/HC	N.A.	N.A.	N.A.	100PCS	8-15/16" x 4-5/8" x 3-3/8"	0.38lb
MR/ACC/CCT22	N.A.	N.A.	N.A.	100PCS	8-15/16" x 4-5/8" x 3-3/8"	1.37lb
MR/ACC/CCT24	N.A.	N.A.	N.A.	100PCS	8-15/16" x 4-5/8" x 3-3/8"	1.39lb
MR/ACC/LN1225	N.A.	N.A.	N.A.	100PCS	8-15/16" x 4-5/8" x 3-3/8"	1.37lb
MR/ACC/LN1236	N.A.	N.A.	N.A.	100PCS	8-15/16" x 4-5/8" x 3-3/8"	1.37lb
MR/ACC/LN1260	N.A.	N.A.	N.A.	100PCS	8-15/16" x 4-5/8" x 3-3/8"	1.37lb
MR/ACC/SQ2525	N.A.	N.A.	N.A.	100PCS	8-15/16" x 4-5/8" x 3-3/8"	1.37lb
MR/ACC/SQ3636	N.A.	N.A.	N.A.	100PCS	8-15/16" x 4-5/8" x 3-3/8"	1.30lb
MR/ACC/RD6060	N.A.	N.A.	N.A.	100PCS	8-15/16" x 4-5/8" x 3-3/8"	1.37lb
MR/ACC/WW10D	N.A.	N.A.	N.A.	100PCS	8-15/16" x 4-5/8" x 3-3/8"	1.26lb
MR/ACC/WW20D	N.A.	N.A.	N.A.	100PCS	8-15/16" x 4-5/8" x 3-3/8"	1.15lb



# REFINE MR16 FAMILY

COLOR ACCURACY & SPECTRAL POWER DISTRIBUTION		
CCT	COLOR ACCURACY	SPECTRAL POWER DISTRIBUTION
2700K	 <p>Rr: 94, Rg: 100</p>	 <p>Wavelength (nm)</p>
3000K	 <p>Rr: 93, Rg: 100</p>	 <p>Wavelength (nm)</p>
4000K	 <p>Rr: 90, Rg: 97</p>	 <p>Wavelength (nm)</p>

Rf: TM-30 metric measuring color fidelity (whether colors are similar to those under natural light). Rf is a more accurate version of the CRI Ra. Rf is 100 for natural light.  
 Rg: TM-30 metric measuring color gamut (whether colors are more saturated than under natural light). Rg is 100 for natural light.

Note: All rights reserved. All sizes and specifications are subject to change at any time without notice.