

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
650	693	9W
900	956	12W
1200	1275	16W
1500	1596	20W

Based on 4000K, 90+ CRI. Actual wattage may vary +/- 5%

#### **FEATURES**

6" LED dedicated New Construction IC housing with integral LED heat management casting and driver (installed on junction box). Designed for new construction installations and suitable for use in insulation covered or non-insulation covered ceilings. A precisely engineered optical system produces smooth, uniform illumination. Ideal for hospitality, healthcare, commercial, retail and residential applications.

LUMENS	650, 900, 1200, 1500
сст	27K, 30K, 35K, 40K, 50K
CRI	90+ Standard
COLOR QUALITY	3 Step MacAdam Ellipse
MOUNTING	Recessed
DISTRIBUTION	Medium (MD)
DIMMING	0-10V Flicker Free 1% Dimming Standard (DIM10), DIMTR ( Triac), LUTH ( Lutron)
EMERGENCY	10W - Up to 1000L Output
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21













#### **OPTICS**

Specially designed optical system shapes the light a functional beam with precisely engineered reflectors. A smooth lens minimizes aperture brightness, while a glare-reducing cone achieves a 55° cutoff.

#### **Excellent Thermal Management**

Die-cast aluminum heat management system is engineered for extremely long life and service period. Heat sink is attached to top of housing. The LED light engine is attached to the die-cast heat sink and is easily replaceable and upgradable. Fixture design allows for installation in construction that requires Elite Air-Shut™ system.

#### **JUNCTION BOX**

UL Listed for through-branch circuit wiring, provided with four ½" knockouts, one ¾" knockout and four Romex knockouts with true pry-out slots and strain clamps. Designed for straight through conduit runs. Driver is installed on the junction box cover so it may be serviced from below the ceiling.

#### Accessible From Below

The driver is installed on the junction box cover and may be easily serviced from below the ceiling.

#### CONSTRUCTION

Die-formed aluminum and galvanized steel housing for maximum heat dissipation and rust protection. Housing adjusts vertically in plaster frame to accommodate ½" to 1-3/8" thick ceiling. Housing is Non-IC rated and insulation must be pulled 3" from housing. May be installed in 2" x 8" joist construction.

#### Extendable, Lockable Bar Hangers

Preinstalled bar hangers allow housing to be positioned and locked at any point within a 24" joist span. The bar hangers can be positioned on either the long or short axis of the housing and can adjusted to fit 12" joists. The bar hangers contain a double-headed real nail for secure attachment into the joist. Bar hanger nails are installed on a 20° downward angle for better contact, and the 90° pivoting mounting plate makes installation fast and accurate. Bar hangers can fit onto T-Bar spline with additional slots and holes for special mounting methods if necessary.

#### EL ECTRICAL

Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120/277V input. Produces less than 20% THD, and has a power factor of .90 to 1.00. Driver is installed on the junction box cover, allowing for service from below.

#### **DIMMABLE**

The Elite LED system is fully dimmable down to 10% of initial light output with a 0-10 Volt dimmer when ordered with (DIM10-MVOLT). F ixtures can be shipped with a Lutron Hi-lume A series Driver, which can be dimmed with Lutron Dimming Systems when ordered with (120-LUTH, 277-LUTH). Triac & Electronic Low Voltage dimming driver is also available when ordered with (DIMTR-120). Consult factory for details.

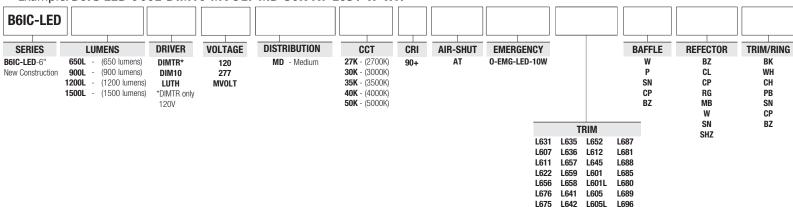
#### **DIMMING & DRIVER INFORMATION**

DIMTR (Triac & Electronic Low Voltage Dimming)
DIM10 (0-10V Dimming)
LUTH (Lutron® Hi-lume® Dimming)

#### **RATINGS**

c-UL-us - listed for Damp location c-UL-us - listed for feed Through Wiring c-UL-us - listed for Direct Contact With Insulation Energy Star California Title 24

#### Example: B6IC-LED-900L-DIM10-MVOLT-MD-30K-AT-L631-W-WH







TEST NO.: **EL08312010** INPUT WATTS: 9.6 LUMENS: 817 CRI: 90 EFFICACY: 64 CCT: 4000K SPACING CRITERIA: 0.54

# **Candle Power Distribution (Candelas)**

		•	,
			90°
637		+	80°
1274		D	70°
1911		50°	00
2548	30'	40°	

10°								
Cone of Light								
2	611 fc	1.1 ft	1.1 ft					
4	153 fc	2.1 ft	2.2 ft					
6	67.9 fc	3.2 ft	3.3 ft					
8	38.2 fc	4.3 ft	4.4 ft					
10	24.4 fc	5.3 ft	5.5 ft					
12	17.0 fc	6.4 ft	6.6 ft					
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread					

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Zonal Lumens Summary							
Zone	Lumens	%Lamp	%Fixt				
0-20	545.89	66.8	66.8				
0-30	742.74	90.9	90.9				
0-40	791.81	97	96.9				
0-60	815.52	99.9	99.9				
0-80	815.95	99.9	99.9				

Luminance (Average candela/M²)						
Angle in Degrees	Average 0°	Average 45°	Average 90°			
45	38050	38592	44459			
55	13655	13535	15755			
65	292	292	259			
75	106	106	106			
85	314	314	314			

mens P	er Zone	Candela T	abulation
Zone	Lumens	0	<b>0</b> 2443.07
0-10	193.86	5	2031.51
10-20	352.03	15	1023.97
20-30	196.84	25	286.05
30-40	49.07	35	53.55
40-50	17.68	45	19.65
50-60	6.03	55	5.72
60-70	0.4	65 75	0.09
70-80	0.03	75 85	0.02
80-90	0.02	90	0.02

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

	RC		80	1%			70	)%			50%			30%			10%		0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
	1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
	2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
9	3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87
Ē	4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83
<b>8</b>	5	98	92	87	84	97	91	87	83	89	85	83	88	84	82	86	83	81	80
≟	6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77
CAVI	7	92	84	79	76	90	84	79	76	82	78	76	81	78	75	80	77	75	74
	8	88	81	76	73	87	80	76	73	79	75	73	78	75	72	78	74	72	71
ROOM	9	86	78	73	70	85	77	73	70	77	73	70	76	72	70	75	72	69	68
8	10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66
$\neg$	RC - Ceiling Cavity Reflectance RW - Wall Reflectance																		

B6IC-LED-1200L-40K-MD-90-L607CL-WH

TEST NO.: **EL08312010** INPUT WATTS: 13.7 CRI: 90 EFFICACY: 77 CCT: 4000K SPACING CRITERIA: 0.54 **LUMENS: 1065** 

# **Candle Power Distribution (Candelas)** 1699

10'	30°	40	
	Cone of I	Light	
2	823 fc	1.1 ft	1.1 ft
4	206 fc	2.1 ft	2.2 ft
6	91.5 fc	3.2 ft	3.3 ft
8	51.5 fc	4.2 ft	4.4 ft
10	32.9 fc	5.3 ft	5.5 ft
12	22.9 fc	6.4 ft	6.6 ft

Cone of Light								
2	823 fc	1.1 ft	1.1 ft					
4	206 fc	2.1 ft	2.2 ft					
6	91.5 fc	3.2 ft	3.3 ft					
8	51.5 fc	4.2 ft	4.4 ft					
10	32.9 fc	5.3 ft	5.5 ft					
12	22.9 fc	6.4 ft	6.6 ft					
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread					
BEAM DIA. MEASURED AT 50% OF NADIR F.C.								

Zonal Lumens Summary						
Zone	Lumens	%Lam				

Zone	Lumens	%Lamp	%Fixt
0-20	713.97	67.1	67
0-30	970.64	91.2	91.2
0-40	1033	97	97
0-60	1063.07	99.8	99.8
0-80	1063.67	99.9	99.9
0-90	1063.69	99.9	99.9

## Luminance (Average candela/M<sup>2</sup>)

Angle in Degrees	Average 0°	Average 45°	Average 90°	
45	53424	51430	53676	
55	21532	19813	19336	
65	454	454	486	
75	159	159	212	
85	314	157	314	

Lumens P	er zone	Candela T	abulation_
Zone	Lumens		0
		0	3293.12
0-10	256.67	5	2609.17
10-20	457.3	15	1511.63
20-30	256.67	25	504.21
30-40	62.36	35	82.18
40-50	22.31	45	27.59
		55	9.02
50-60	7.77	65	0.14
60-70	0.55	75	0.03
70-80	0.05	85	0.02
80-90	0.02	90	0.02

**Lumens Per Zone** 

Lumens

367.56

663.31

378.64

96.38

35.16

12.34

0.87

0.04

0.02

Zone

0-10

10-20

20-30

30-40

40-50

50-60

60-70

70-80

80-90

<b>Coefficients of Utilization - Zonal Cavity</b>	Method
Effective Floor Cavity Reflectance 0.20	

LIICOTIV	0 1 1001	C 1 1001 Odvity 1 101100td1100 0.2									
RC		80	)%								
DW	700/	E00/-	200/-	100/	١.						

**Zonal Lumens Summary** 

0-30

0-40

0-60

0-80

1030.87

1409.52

1505.9

1553.39

1554.31

1554.33

	RC		80	1%		70%				50%			30%			10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
	1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
	2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91
0	3	106	101	97	94	104	100	96	93	97	94	91	95	92	90	93	90	89	87
Ē	4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84
Æ	5	98	92	87	84	97	91	87	83	89	86	83	88	84	82	86	84	81	80
≟	6	95	88	83	80	94	87	83	80	86	82	79	85	81	79	83	80	78	77
₹	7	92	84	80	76	91	84	79	76	83	79	76	81	78	75	80	77	75	74
2	8	89	81	76	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71
6	9	86	78	73	70	85	78	73	70	77	73	70	76	72	70	75	72	69	68
2	10	83	75	71	68	82	75	70	68	74	70	67	73	70	67	73	69	67	66
RC - Ceiling Cavity Reflectance RW - Wall Reflectance																			

45°

18548

486

106

90°

28741

106

#### B6IC-LED-1500L-40K-MD-90-L607CL-WH

TEST NO.: **EL08312010** INPUT WATTS: 17.3 LUMENS: **1555** CRI: 90 EFFICACY: 90 CCT: 4000K SPACING CRITERIA: 0.56

Angle in

Degrees

55

65

75

Luminance (Average candela/M<sup>2</sup>)

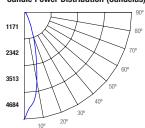
57433

18214

486

106

#### **Candle Power Distribution (Candelas)**



Cone of Light												
2	1130 fc	1.1 ft	1.1 ft									
4	282 fc	2.2 ft	2.3 ft									
6	126 fc	3.3 ft	3.4 ft									
8	70.6 fc	4.4 ft	4.5 ft									
10	45.2 fc	5.5 ft	5.7 ft									
12	31.4 fc	6.6 ft	6.8 ft									
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread									
BEAM	DIA. MEASURED AT	50% OF NADIR F	.c.									

Coefficients of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20

66.3

90.6

96.8

99.9

99.9

99.9

	RC		80	1%		70%							
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50			
	0	119	119	119	119	116	116	116	116	1			
	1	115	112	110	108	112	110	108	106	1			
	2	110	106	103	100	108	104	101	99	1			
0	3	106	101	97	93	104	99	96	93	9			
RATIO	4	102	96	91	88	100	95	91	88	9			
	5	98	92	87	83	97	91	86	83	8			
≟	6	95	88	83	79	93	87	82	79	8			
CAVITY	7	91	84	79	76	90	83	79	76	8			
3	8	88	81	76	73	87	80	76	73				

%Fixt

66.3

90.6

96.8

99.9

99.9

RC		80	1%		70%				50%			30%			10%			0%		
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96		
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91		
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87		
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83		
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80		
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76		
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73		
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71		
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68		
10	83	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	67	66		
RC - Ceilin	g Cavity R	eflectance	•	RW - Wall	Reflectano	е														



**Candela Tabulation** 

15

25 35

45

55 65

75

90

4518.37

3964.41

1968.02

95.89

29.66

0.15

0.02

0.02

0.02









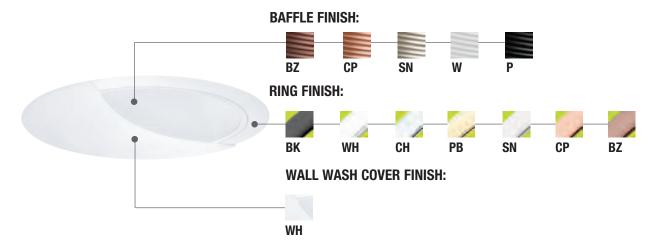






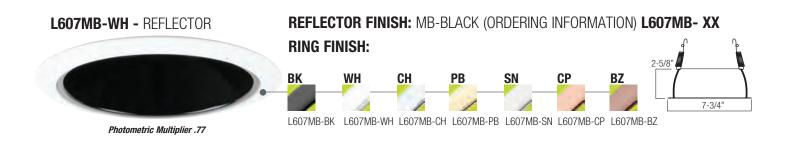


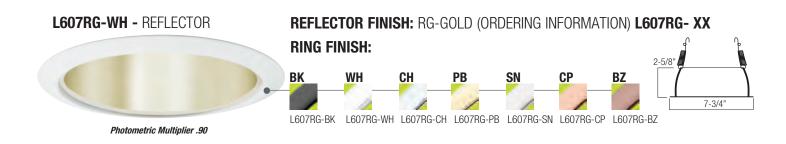
L611W-WH - BAFFLE WALL WASH (ORDERING INFORMATION) L611X- XX-WH









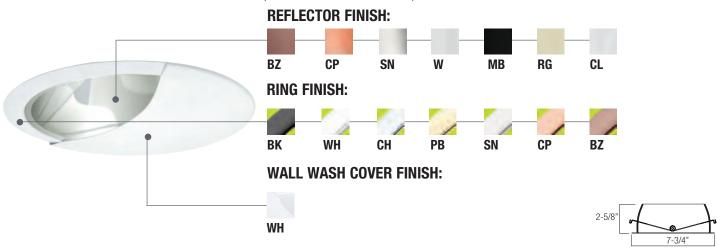




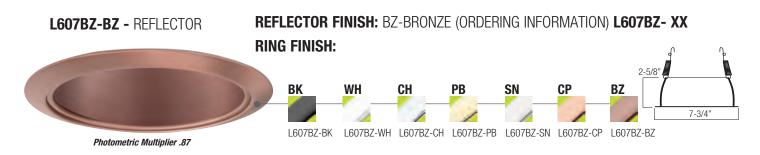




#### L622W-WH - REFLECTOR WALL WASH (ORDERING INFORMATION) L622X- XX-WH



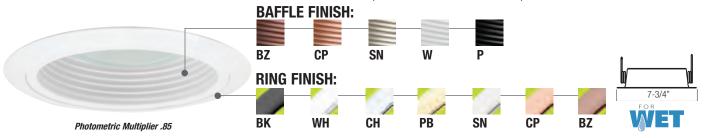




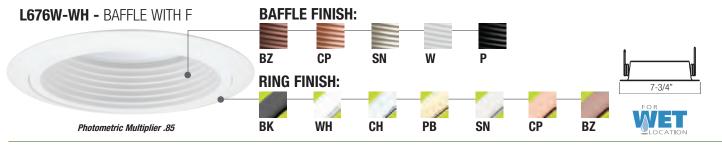




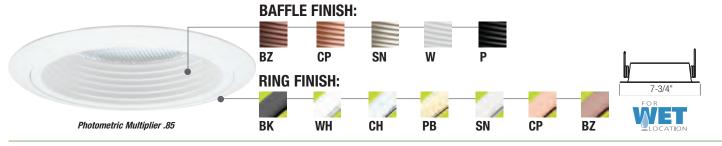
#### L656W-WH - BAFFLE WITH FROSTED DOME SHOWER LENS (ORDERING INFORMATION) L656X-XX



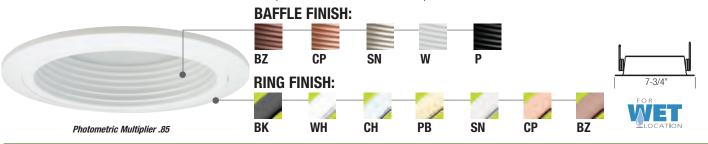
#### ORMATION) L676X- XX



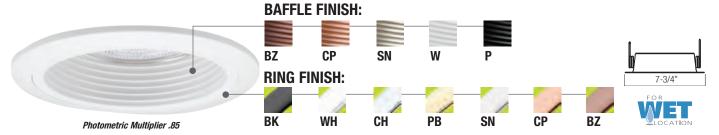
#### L675W-WH - BAFFLE WITH PRISMATIC LENS (ORDERING INFORMATION) L675X-XX



#### L635W-WH - BAFFLE WITH ALBALITE LENS (ORDERING INFORMATION) L635X-XX

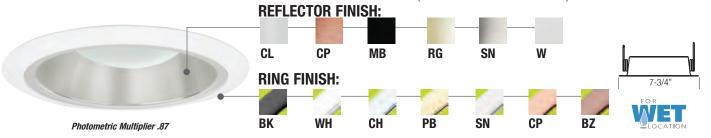


#### L636W-WH - BAFFLE WITH FRESNEL LENS (ORDERING INFORMATION) L636X-XX

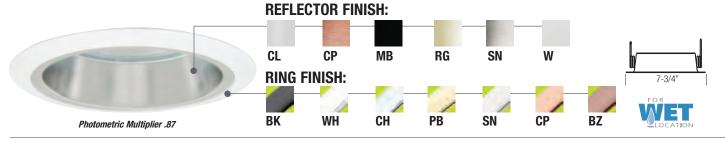




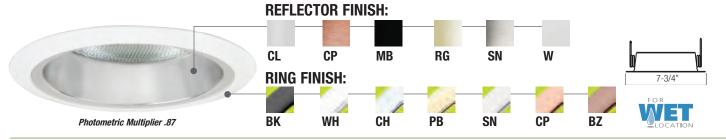
L657CL-WH - REFLECTOR WITH FROSTED DOME SHOWER LENS (ORDERING INFORMATION) L657X-XX



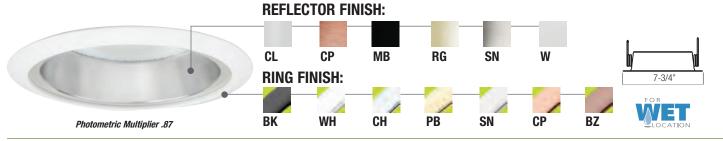
L659CL-WH - REFLECTOR WITH FROSTED LENS (ORDERING INFORMATION) L659X-XX



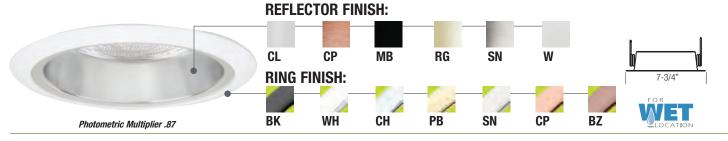
L658CL-WH - REFLECTOR WITH PRISMATIC LENS (ORDERING INFORMATION) L658X-XX



L641CL-WH - REFLECTOR WITH ALBALITE LENS (ORDERING INFORMATION) L641X-XX



**L642CL-WH -** REFLECTOR WITH FRESNEL LENS (ORDERING INFORMATION) **L642X-XX** 







#### LENS FINISH: FROSTED (ORDERING INFORMATION) L652XX





### NE

#### **L612WH - SMOOTH FROSTED DOME LENS**

#### LENS FINISH: FROSTED (ORDERING INFORMATION) L612XX





#### **L645WH - DESIGNER POINT LENS**

#### LENS FINISH: FROSTED (ORDERING INFORMATION) L655XX





#### L601WH/L601L - METAL/PLASTIC ALBALITE LENS

#### LENS FINISH: ALBALITE-WHITE (ORDERING INFORMATION) L601XX





#### **L605WH/L605L - METAL/PLASTIC FRESNEL LENS**

LENS FINISH: FRESNEL-CLEAR (ORDERING INFORMATION) L605XX















**L606WH/L606L - METAL/PLASTIC DROP OPAL LENS** 

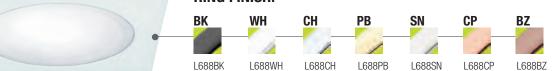








# LENS FINISH: ALBALITE-WHITE (ORDERING INFORMATION) L688-XX RING FINISH:





PATENT #: D510,151

#### **L685WH - SQUARE FRESNEL LENS**

LENS FINISH: FRESNEL-CLEAR (ORDERING INFORMATION) L685-XX RING FINISH:





PATENT #: D510,151

#### **L680WH - SQUARE DESIGNER POINT LENS**





PATENT #: D510,151

#### **L696WH - SQUARE DESIGNER FROSTED LENS**





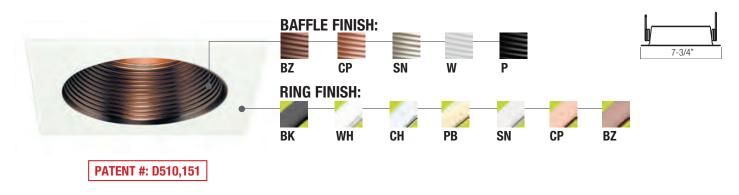
PATENT #: D510,151







L681BZ-WH - SQUARE BAFFLE (ORDERING INFORMATION) L681X-XX



L687CP-WH - SQUARE REFLECTOR (ORDERING INFORMATION) L687X- XX

