

3" ARCHITECTURAL FIRE-RATED ROUND FLANGE DOWNLIGHT



USE OF PRODUCT
Prodigy is an architectural fixture that is available in fixed, wall wash, or adjustable configurations. Meticulously engineered to offer an assortment of color temperatures, optics, filters, lumen outputs, and dimmable drivers. This series is suitable for residential and commercial applications in flange or flangeless appearance in an assortment of trim selections. May be utilized where fire-rating is required.

LED MODULE
Cree LEDs in static white or warm dim, in 90+ CRI, with 2-step binning which allows for color consistency between fixtures. Module may be interchangeable from downlight, wall wash, or adjustable by utilization of appropriate module holder. Module is accessible from below the ceiling.

ALIGNMENT/ADJUSTABILITY
- Collar notch allows for easy alignment between trims.

OPTICS AND FILTERS
Optical lens available in 18°, 25°, 30°, 40°, 50° and 80°. Easily achieve narrow spot to wide flood beam pattern. Optional frosted, honeycomb, or solite filter available upon request. Optics and filters are field-replaceable and are accessible from below the ceiling.

DIMMING
Intelligent Drive (ID) is the standard, all-inclusive driver which is Triac (120V), ELV (120V), and 0–10V (120V–277V). Optional driver selections include eldoLED. All drivers are accessible from below the ceiling.

THERMAL MANAGEMENT
Ambient temperature at fixture location should not exceed -20°C to 40°C.

TRIM
Die-cast trims are available in an assortment of finishes in round/square, flange/flangeless. Consult factory for made-to-order finishes. Flanged trim is compatible with all ceiling materials. Flangeless available for plaster ceilings. Frosted acrylic diffuser on trim is standard and allows it to meet wet location applications. Acrylic diffuser may be removed in the field. Wing bracket on trim accommodates for varying ceiling depths.

EMERGENCY BATTERY
Optional emergency battery (EM) available in 4W or 8W versions. Each provides light for a minimum of 90 minutes. EM back box (installed by factory) is required for the 4W version. 4W is accessible from below the ceiling. Ceiling access is required for the 8W version (test switch is remote). EM is UL 924 certified, CEC Title 20 approved, and provides sufficient lumens to comply with NFPA 101 safety code.

MOUNTING
Universal bar hanger (UH) is designed to mount to wood (two positions) and T-bar ceilings. UH may be adjusted vertically to accommodate varying ceiling depths.

NOTE
2-hour fire-rated ceiling assembly can be maintained when installed according to the International Building Code, Section 714. Metallic outlet boxes with metallic or non-metallic cover plates may be used in floor-ceiling and roof-ceiling assemblies with ratings not exceeding 2 hours. These assemblies should have gypsum board membranes. The metallic outlet boxes should be securely fastened to the joists and the opening in the gypsum board facing should be cut so that the clearance between the box and the gypsum board does not exceed 1/8". The surface area of individual boxes should not exceed 16 square inches. The aggregate surface area of the boxes should not exceed 100 square inches per 100 square feet of ceiling surface.

- LABELS/COMPLIANCE/WARRANTY**
- ETL (Intertek) Listed per UL 1598
 - ETL (Intertek) Listed per UL514A (2-hour fire-rated metallic outlet box)
 - Wet location rated.
 - IC air-tight rated.
 - Chicago Plenum rated.
 - State of California Title 24 and JA8 compliant.
 - 5-year limited warranty.



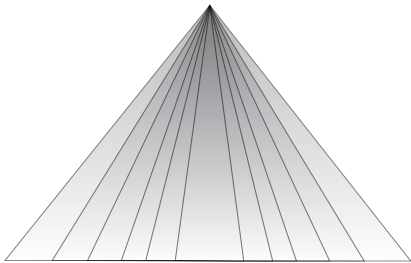
GENERAL PERFORMANCE CHART

*Detailed performance chart may be found on page 2

	6W	9W	12W	15W
Initial Lumens	955	1296	1618	2015
Delivered Lumens	738-826	1005-1124	1268-1406	1511-1713

* Values are listed at 3000K, 90+ CRI with trim.
Delivered lumens range based on beam spread.
Performance may vary +/- 5%

BEAM SPREAD



Available optics: 18° 25° 30° 40° 50° 80°

- Field replaceable TIR optics
- Easily achieve narrow spot to wide flood beam pattern
- Optional filters available upon request

ORDERING INFORMATION

Series	Wattage	Dimming	Color Temperature	Optical Lens	Filter	Housing Type
RGY3	6W - 6 Watt 9W - 9 Watt 12W - 12 Watt 15W - 15 Watt	ID ¹ - Standard All-Inclusive ELV(120V), Triac(120V), and 0-10V(120-277V) Dimming Driver (Intelligent Drive) EEIS ² - eldoLED 1% Dim 0–10V (120-127V), Triac (120V) EDIO ³ - eldoLED 0.1% Dim (0–10V) EDID ³ - eldoLED 0.1% Dim (DALI) EDD ³ - eldoLED 1% Dim (DALI2) PEQO - Lutron Hi-Lume Premier Ecosystem 0.1% with Soft-on, Fade-to-Black Dimming	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K	18 ⁴ - 18° 25 - 25° 30 - 30° 40 - 40° 50 - 50° 80 - 80°	None - Included F - Frosted Filter H - Honey Comb S - Solite Filter	IC - IC Air-Tight New Construction
Collar	Module Type	Frame Accessories	Options			
3CR - 3" Round Collar, 5/8" Height	FMH - Downlight	UH - Universal Adjustable Bar Hanger	EI4WI - 4W Integral Emergency Battery with Integral Test Switch (400 lm) ER8WR ⁵ - 8W Remote Emergency Battery with Remote Test Switch (800 lm) CP - Chicago Plenum			

TRIM ORDERING INFORMATION

Bevel / Flange Finish	Notes
3RFOWW - White Bevel / White Flange	1. Intelligent Drive is the standard driver.
3RFOBB - Black Bevel / Black Flange	2. Programmable only in linear mode.
3RFOHW - Haze Bevel / White Flange	3. Must specify logarithmic or linear eldoLED diver.
3RFOBZBZ - Bronze Bevel / Bronze Flange	4. 18° spread without lens on trim.
3RFOMTO - Made To Order	5. Ceiling access is required to replace the EM unit.

PERFORMANCE CHART

Optics		¹ 18°	25°	30°	40°	50°	80°
6W	Initial Lumens	955	955	955	955	955	955
	Delivered Lumens	826	768	816	817	759	738
	UGR	12.1	15.6	14.2	16.6	20.9	23.5
9W	Initial Lumens	1296	1296	1296	1296	1296	1296
	Delivered Lumens	1124	1043	1112	1111	1035	1005
	UGR	13.3	16.7	15.3	17.7	22	24.6
12W	Initial Lumens	1618	1618	1618	1618	1618	1618
	Delivered Lumens	1406	1316	1388	1396	1305	1268
	UGR	14.2	17.6	16.6	18.6	22.8	25.5
15W	Initial Lumens	2015	2015	2015	2015	2015	2015
	Delivered Lumens	1713	1604	1699	1692	1612	1511
	UGR	14.9	19.2	19	20.5	23.5	26.1

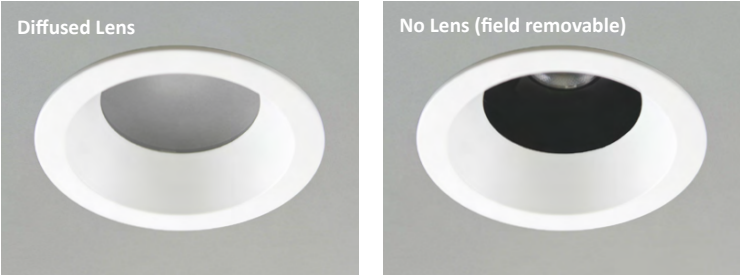
* Values are listed at 3000K, 90+ CRI with trim.

Notes
1. 18° spread without lens on trim

COLOR TEMPERATURE MULTIPLIER FOR DELIVERED LUMENS

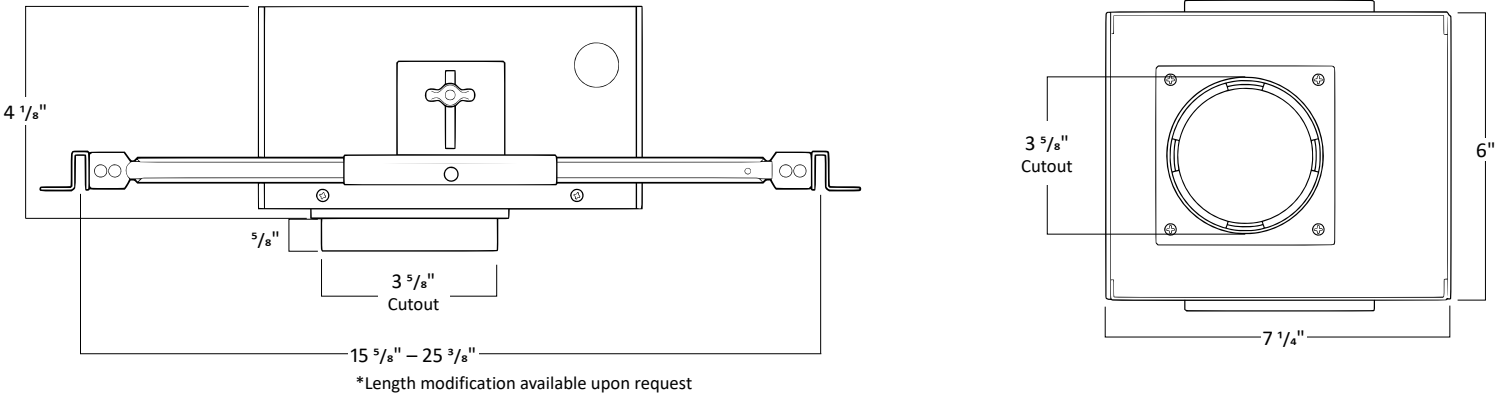
2700K	3000K	3500K	4000K
0.95	1.00	1.04	1.07

3RFO REGRESS FLANGE TRIM

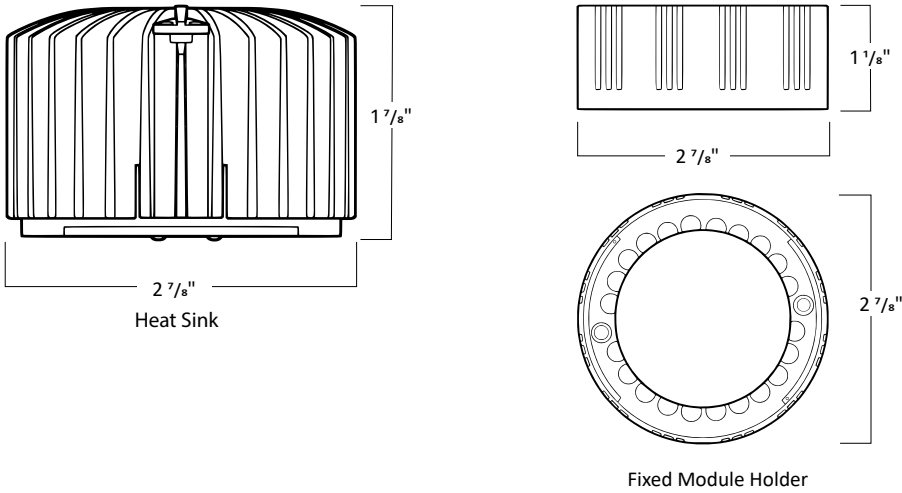


- Listed IES files are with diffused lens
- Not suitable for wet locations
- Increase in lumens by approximately 7%

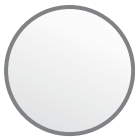
HOUSING DIMENSIONS



MODULE DIMENSIONS



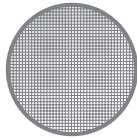
FILTERS



Frosted Filter

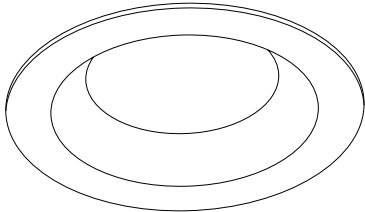


Honey Comb

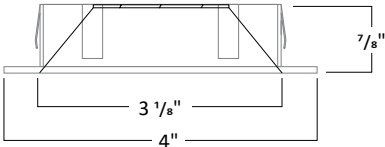
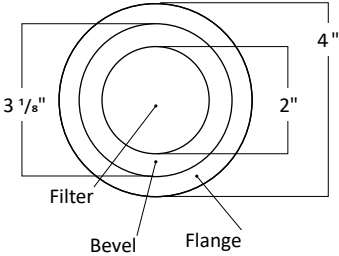


Solite Filter

TRIM DIMENSIONS



3RFO



TRIM FINISH



White



Black



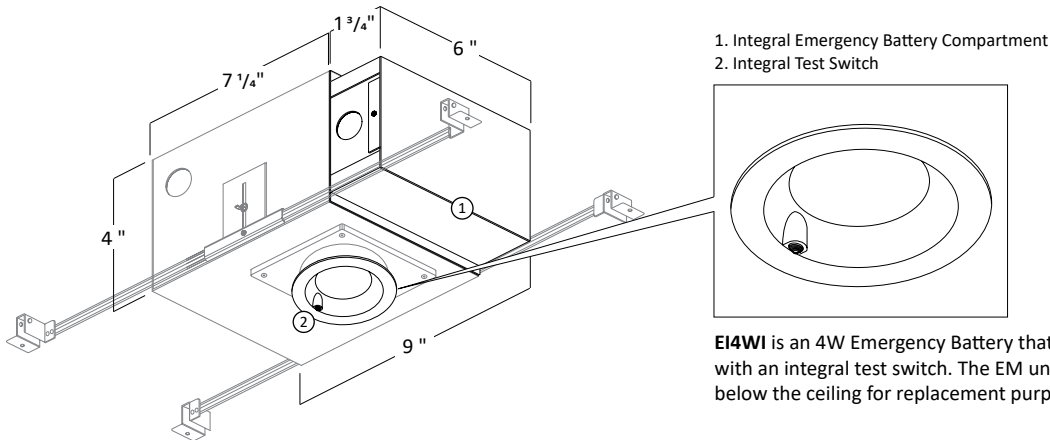
Haze



Bronze

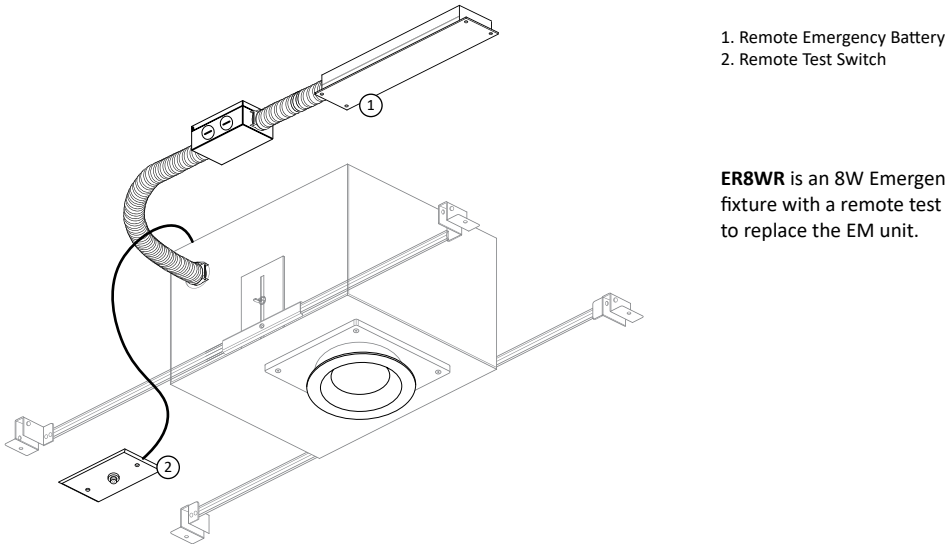
*Consult Factory for Made to Order Finishes

INTEGRAL 4W EMERGENCY BATTERY



EI4WI is an 4W Emergency Battery that is integral to the fixture with an integral test switch. The EM unit is accessible from below the ceiling for replacement purposes.

REMOTE 8W EMERGENCY BATTERY



ER8WR is an 8W Emergency Battery that is remote to the fixture with a remote test switch. Ceiling access is required to replace the EM unit.

EMERGENCY BATTERY NOTICE

Emergency battery backup units are shipped in a partially discharged state. Upon receipt, fixtures should be installed and connected to a continuous, unswitched AC power source immediately and charged for a minimum of 24 hours before testing or emergency operation. Delayed installation or failure to charge the battery promptly may result in reduced battery capacity or premature battery failure and is not covered under warranty.

PHOTOMETRIC DATA

6W - 18° NO LENS

Throw Distance	Center Beam fc	Beam Width
6 ft	156	1.9 ft
8 ft	88	2.6 ft
10 ft	56	3.3 ft
12 ft	39	3.9 ft
14 ft	29	4.6 ft
16 ft	22	5.3 ft
18 ft	17	5.9 ft
20 ft	14	6.6 ft
Delivered Lumens :	826 lm	
Efficiency :	125 lm/W	

6W - 25°

Throw Distance	Center Beam fc	Beam Width
6 ft	71	2.8 ft
8 ft	40	3.7 ft
10 ft	26	4.7 ft
12 ft	18	5.6 ft
14 ft	13	6.6 ft
16 ft	10	7.5 ft
18 ft	8	8.5 ft
20 ft	6	9.4 ft
Delivered Lumens :	768 lm	
Efficiency :	116 lm/W	

6W - 30°

Throw Distance	Center Beam fc	Beam Width
6 ft	67	3.2 ft
8 ft	38	4.2 ft
10 ft	24	5.3 ft
12 ft	17	6.4 ft
14 ft	12	7.4 ft
16 ft	9	8.5 ft
18 ft	7	9.6 ft
20 ft	6	10.6 ft
Delivered Lumens :	816 lm	
Efficiency :	124 lm/W	

6W - 40°

Throw Distance	Center Beam fc	Beam Width
6 ft	45	4.2 ft
8 ft	25	5.6 ft
10 ft	16	7.1 ft
12 ft	11	8.5 ft
14 ft	8	9.9 ft
16 ft	6	11.3 ft
18 ft	5	12.7 ft
20 ft	4	14.2 ft
Delivered Lumens :	817 lm	
Efficiency :	124 lm/W	

6W - 50°

Throw Distance	Center Beam fc	Beam Width
6 ft	25	5.7 ft
8 ft	14	7.6 ft
10 ft	9	9.5 ft
12 ft	6	11.4 ft
14 ft	5	13.3 ft
16 ft	3	15.2 ft
18 ft	3	17.1 ft
20 ft	2	19.0 ft
Delivered Lumens :	759 lm	
Efficiency :	115 lm/W	

6W - 80°

Throw Distance	Center Beam fc	Beam Width
6 ft	13	9.7 ft
8 ft	8	12.9 ft
10 ft	5	16.2 ft
12 ft	3	19.4 ft
14 ft	2	22.7 ft
16 ft	2	25.9 ft
18 ft	1	29.1 ft
20 ft	1	32.4 ft
Delivered Lumens :	738 lm	
Efficiency :	112 lm/W	

9W - 18° NO LENS

Throw Distance	Center Beam fc	Beam Width
6 ft	212	1.9 ft
8 ft	119	2.6 ft
10 ft	76	3.3 ft
12 ft	53	3.9 ft
14 ft	39	4.6 ft
16 ft	30	5.3 ft
18 ft	24	5.9 ft
20 ft	19	6.6 ft
Delivered Lumens :	1124 lm	
Efficiency :	122 lm/W	

9W - 25°

Throw Distance	Center Beam fc	Beam Width
6 ft	96	2.8 ft
8 ft	54	3.8 ft
10 ft	35	4.7 ft
12 ft	24	5.7 ft
14 ft	18	6.6 ft
16 ft	14	7.6 ft
18 ft	11	8.5 ft
20 ft	9	9.5 ft
Delivered Lumens :	1043 lm	
Efficiency :	113 lm/W	

9W - 30°

Throw Distance	Center Beam fc	Beam Width
6 ft	91	3.2 ft
8 ft	51	4.2 ft
10 ft	33	5.3 ft
12 ft	23	6.4 ft
14 ft	17	7.4 ft
16 ft	13	8.5 ft
18 ft	10	9.6 ft
20 ft	8	10.6 ft
Delivered Lumens :	1112 lm	
Efficiency :	121 lm/W	

9W - 40°

Throw Distance	Center Beam fc	Beam Width
6 ft	59	4.2 ft
8 ft	33	5.6 ft
10 ft	21	7.1 ft
12 ft	15	8.5 ft
14 ft	11	9.9 ft
16 ft	8	11.3 ft
18 ft	7	12.8 ft
20 ft	5	14.2 ft
Delivered Lumens :	1111 lm	
Efficiency :	121 lm/W	

9W - 50°

Throw Distance	Center Beam fc	Beam Width
6 ft	34	5.7 ft
8 ft	19	7.6 ft
10 ft	12	9.5 ft
12 ft	8	11.4 ft
14 ft	6	13.3 ft
16 ft	5	15.2 ft
18 ft	4	17.1 ft
20 ft	3	19.0 ft
Delivered Lumens :	1035 lm	
Efficiency :	113 lm/W	

9W - 80°

Throw Distance	Center Beam fc	Beam Width
6 ft	18	9.7 ft
8 ft	10	12.9 ft
10 ft	7	16.2 ft
12 ft	5	19.4 ft
14 ft	3	22.7 ft
16 ft	3	25.9 ft
18 ft	2	29.1 ft
20 ft	2	32.4 ft
Delivered Lumens :	1005 lm	
Efficiency :	109 lm/W	

12W - 18° NO LENS

Throw Distance	Center Beam fc	Beam Width
6 ft	265	1.9 ft
8 ft	149	2.6 ft
10 ft	95	3.3 ft
12 ft	66	3.9 ft
14 ft	49	4.6 ft
16 ft	37	5.3 ft
18 ft	29	5.9 ft
20 ft	24	6.6 ft
Delivered Lumens :	1406 lm	
Efficiency :	117 lm/W	

12W - 25°

Throw Distance	Center Beam fc	Beam Width
6 ft	121	2.8 ft
8 ft	68	3.8 ft
10 ft	43	4.7 ft
12 ft	30	5.7 ft
14 ft	22	6.6 ft
16 ft	17	7.6 ft
18 ft	13	8.5 ft
20 ft	11	9.5 ft
Delivered Lumens :	1316 lm	
Efficiency :	110 lm/W	

12W - 30°

Throw Distance	Center Beam fc	Beam Width
6 ft	113	3.1 ft
8 ft	64	4.2 ft
10 ft	41	5.3 ft
12 ft	28	6.3 ft
14 ft	21	7.4 ft
16 ft	16	8.5 ft
18 ft	13	9.5 ft
20 ft	10	10.6 ft
Delivered Lumens :	1388 lm	
Efficiency :	116 lm/W	

12W - 40°

Throw Distance	Center Beam fc	Beam Width
6 ft	74	4.2 ft
8 ft	42	5.7 ft
10 ft	27	7.1 ft
12 ft	19	8.5 ft
14 ft	14	9.9 ft
16 ft	10	11.4 ft
18 ft	8	12.8 ft
20 ft	7	14.2 ft
Delivered Lumens :	1396 lm	
Efficiency :	116 lm/W	

12W - 50°

Throw Distance	Center Beam fc	Beam Width
6 ft	43	5.7 ft
8 ft	24	7.6 ft
10 ft	15	9.5 ft
12 ft	11	11.4 ft
14 ft	8	13.3 ft
16 ft	6	15.2 ft
18 ft	5	17.1 ft
20 ft	4	19.0 ft
Delivered Lumens :	1305 lm	
Efficiency :	109 lm/W	

12W - 80°

Throw Distance	Center Beam fc	Beam Width
6 ft	23	9.7 ft
8 ft	13	12.9 ft
10 ft	8	16.2 ft
12 ft	6	19.4 ft
14 ft	4	22.7 ft
16 ft	3	25.9 ft
18 ft	3	29.1 ft
20 ft	2	32.4 ft
Delivered Lumens :	1268 lm	
Efficiency :	106 lm/W	

15W - 18° NO LENS

Throw Distance	Center Beam fc	Beam Width
6 ft	322	1.9 ft
8 ft	181	2.6 ft
10 ft	116	3.3 ft
12 ft	81	3.9 ft
14 ft	59	4.6 ft
16 ft	45	5.3 ft
18 ft	36	5.9 ft
20 ft	29	6.6 ft
Delivered Lumens :	1713 lm	
Efficiency :	112 lm/W	

15W - 25°

Throw Distance	Center Beam fc	Beam Width
6 ft	131	3.0 ft
8 ft	73	4.0 ft
10 ft	47	5.0 ft
12 ft	33	6.0 ft
14 ft	24	7.0 ft
16 ft	18	8.0 ft
18 ft	15	9.0 ft
20 ft	12	10.0 ft
Delivered Lumens :	1604 lm	
Efficiency :	105 lm/W	

15W - 30°

Throw Distance	Center Beam fc	Beam Width
6 ft	120	3.4 ft
8 ft	67	4.5 ft
10 ft	43	5.6 ft
12 ft	28	6.8 ft
14 ft	22	7.9 ft
16 ft	17	9.1 ft
18 ft	13	10.2 ft
20 ft	11	11.3 ft
Delivered Lumens :	1699 lm	
Efficiency :	111 lm/W	

15W - 40°

Throw Distance	Center Beam fc	Beam Width
6 ft	82	4.4 ft
8 ft	46	5.9 ft
10 ft	29	7.4 ft
12 ft	20	8.8 ft
14 ft	15	10.3 ft
16 ft	11	11.8 ft
18 ft	9	13.3 ft
20 ft	7	14.8 ft
Delivered Lumens :	1692 lm	
Efficiency :	111 lm/W	

15W - 50°

Throw Distance	Center Beam fc	Beam Width
6 ft	53	5.7 ft
8 ft	30	7.6 ft
10 ft	19	9.5 ft
12 ft	13	11.4 ft
14 ft	10	13.3 ft
16 ft	7	15.2 ft
18 ft	6	17.1 ft
20 ft	5	19.0 ft
Delivered Lumens :	1612 lm	
Efficiency :	105 lm/W	

15W - 80°

Throw Distance	Center Beam fc	Beam Width
6 ft	28	9.6 ft
8 ft	16	12.8 ft
10 ft	10	16.0 ft
12 ft	7	19.2 ft
14 ft	5	22.4 ft
16 ft	4	25.6 ft
18 ft	3	28.8 ft
20 ft	2	32.0 ft
Delivered Lumens :	1511 lm	
Efficiency :	99 lm/W	