

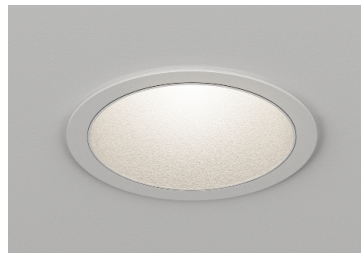
ATOMOS™ 2 INT

ADJUSTABLE | FIXED

A miniature downlight range offering impressive performance in an extremely small profile with a 2" aperture.

PROJECT NAME:

TYPE:



ORDERING INFORMATION - FITTING

FITTING	FITTING TYPE	RATING	FITTING FINISH	BAFFLE FINISH	DOWNLIGHT TYPE	INSTALL TYPE	LUMEN PACKAGE	CCT	OPTIC (UGR)	DRIVER	EFFECTS DEVICE
						E					
A2RS 2" Round Standard	F Flange Overlay	1 Dry / Damp (IP20)	WH White	WH White	AD Adjustable, 30° Max Tilt	13mm - 50mm MAX CEILING THICKNESS	STATIC WHITE	24 2400K* *(90+CRI Only)	10 10°* (<13) *(For use with 09H lumen package only)	IP ELV / Triac, 1%* *(Not available for 8008D, 8009H, 9007D, 9009H, 9005D, 9506D, or 9509H)	STANDARD MEDIA
A2SS 2" Square Standard	T Trimless Drywall	2 Wet (IP44)	AB Architectural Bronze	AB Architectural Bronze	FD Fixed	E Export* *(For export use, outside of USA)	8008D 80+ CRI Adj. / Fixed lm delivered - 538	27 2700K	15 15° (<16)	ID DALI, LOG, 1%	4 Soft Focus Film* *(Required for 10° optic)
	W Trimless Millwork		AG Satin Silver	AG Satin Silver			8009H 80+ CRI* *(For use with 10° Optic only)	30 3000K	25 25° (<16)	IN DALI, LIN, 1%	ALTERNATE MEDIA
			AU Cashmere Gold	AU Cashmere Gold			Adj. / Fixed lm delivered - 322	35 3500K	35 35° (<19)		
			BB Burnt Bronze	BB Burnt Bronze			8012D 80+ CRI Adj. / Fixed lm delivered - 920	40 4000K	50 50° (<19)	TUNABLE WHITE REMOTE (0.1%, 120-277V)	0 No Media* *(Not available for Wet Location or Warm Dim)
			BK Black	BK Black			9007D 90+ CRI Adj. / Fixed lm delivered - 455		80 80°* (>19) *(Requires -6 wide distribution film)	DD eidoLED, DUALdrive DALI-2, LOG	2 Honeycomb Louver* *(Not available for Wet Location or Warm Dim)
			PR Primer	PR Primer			9009H 90+ CRI* *(For use with 10° Optic only)		AZ Adjustable Zoom* (<19)* (24°, 30°, 36°, 42° and 48° beam spreads)		3 Clear Film* *(Not available for Warm Dim)
			00 Trimless* *(Required for trimless)	CF Custom Finish* *(Consult Factory)			Adj. / Fixed lm delivered - 273				5 Linear Spread Film
			CF Custom Finish* *(Consult Factory)				9010D 90+ CRI Adj. / Fixed lm delivered - 779				6 80° Wide Distribution Film* *(Must be paired with 80° optic)
							9506D 95+ CRI Adj. / Fixed lm delivered - 208				S Honeycomb Louver w/ Soft Focus Film
							9509H 95+ CRI* *(For use with 10° Optic only)				C Honeycomb Louver w/ Clear Film* *(Not available for Warm Dim)
							Adj. / Fixed lm delivered - 154				
							9509D 95+ CRI Adj. / Fixed lm delivered - 356				
							WARM DIM				
							9005D 90+ CRI, Adj. / Fixed lm delivered - 391	WL 2700K - 1800K	15 15° (<16)		
							9009D 90+ CRI, Adj. / Fixed lm delivered - 668	WD 3000K - 1800K	25 25° (<16)		
									35 35° (<19)		
									50 50° (<19)		
									80 80°* (>19) *(Requires -6 wide distribution film)		
							TUNABLE WHITE				
							9010D 90+ CRI, Warm Profile Adj. / Fixed lm delivered - 694	TR 4000K - 1800K	15 15° (>19)		
							Cool Profile Adj. / Fixed lm delivered - 611	TH 5000K - 2700K	25 25° (>19)		
									35 35° (>19)		
									50 50° (>19)		
									80 80°* (>19) *(Requires -6 wide distribution film)		
							*ALL LM DELIVERED OUTPUTS REFLECT 3000K PAIRED WITH 15° OPTIC AND SOFT FOCUS FILM.				
									*SEE PAGE 3 FOR UGR RATINGS		



PART NUMBER NOTES

- Fitting ships as e.g., A2RSFAD1AGAG-8012D27-15E-IP*0

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ACCESSORIES

ALTERNATE EFFECTS DEVICES

Consult factory for additional configurations.

☐ **CGL-AR** Clear Film*

*(Not available for Warm Dim. Consult factory for IP44 Wet locations.)

☐ **SFL-AR** Soft Focus Film*

*(Consult factory for Wet locations)

☐ **HCL-AR** Honeycomb Louver*

*(Not available for Warm Dim unless paired with Soft Focus Film. Not available for IP44 Wet location unless paired with film.)

☐ **AW-AR** Asymmetric Film*

*(Consult factory for Wet locations)

INSTALLATION / REMOVAL TOOL

Required for installation. One provided for every 10 fixtures.

☐ **A2-TOOL-INSTALL** Installation Tool

REPLACEMENT OPTICS

Interchangeable optics accessible through fitting aperture.

☐ **RO-A-15-1** 15° optic*

*(Not available for Warm Dim)

☐ **RO-A-25-1** 25° optic

☐ **RO-A-35-1** 35° optic

☐ **RO-A-50-1** 50° optic

☐ **RO-A-AZ-1** Adjustable zoom optic*

*(24°, 30°, 36°, 42° and 48° beam spreads. Not available for Warm Dim or Tunable White.)

ADJUSTMENT TOOL

One provided for every 10 adjustable fixtures.

☐ **TOOL-HEX-050** Adjustment Tool

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PERFORMANCE - 3000K

LUMEN PACKAGE	WATTS	15° OPTIC SOFT FOCUS FILM		25° OPTIC SOFT FOCUS FILM		35° OPTIC SOFT FOCUS FILM		50° OPTIC SOFT FOCUS FILM		80° OPTIC WIDE DIST. FILM	
		DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW
8008D	6	538	90	534	89	472	79	501	84	431	72
8012D	12	920	77	912	76	807	67	857	71	779	65
9007D	6	455	76	452	75	400	67	424	71	365	61
9010D	12	779	65	773	64	684	57	726	61	624	52
9506D	6	405	68	402	67	356	59	378	63	325	54
9509D	12	693	58	688	57	609	51	646	54	555	46
9005D [27K-18K]	6	391	65	388	65	343	57	364	61	313	52
9009D [30K-18K]	12	668	55	663	55	587	49	623	52	535	45
9010DTR [18K-4K]	10	694	69	696	70	612	61	685	68	582	58
9010DTH [27K-5K]	10	611	61	613	61	539	54	603	60	512	51

LUMEN PACKAGE	WATTS	10° OPTIC FIELD REDUCER KIT	
		DLVD.	LPW
80S09H	9	322	36
90S09H	9	273	30
95S09H	9	251	28

LUMEN PACKAGE	WATTS	24° Zoom-Position 1 SOFT FOCUS FILM		30° Zoom-Position 2 SOFT FOCUS FILM		36° Zoom-Position 3 SOFT FOCUS FILM		42° Zoom-Position 4 SOFT FOCUS FILM		48° Zoom-Position 5 SOFT FOCUS FILM	
		DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW
8008D	6	469	78	473	79	446	74	427	71	422	70
8012D	12	803	67	810	67	763	64	731	61	721	60
9007D	6	398	66	401	67	378	63	362	60	357	60
9010D	12	680	57	686	57	646	54	619	52	611	51
9506D	6	354	59	357	59	336	56	322	54	318	53
9509D	12	605	50	611	51	575	48	551	46	544	45

UNIFIED GLARE RATING

10° OPTIC FIELD REDUCER KIT	15° OPTIC SOFT FOCUS LENS	25° OPTIC SOFT FOCUS LENS	35° OPTIC SOFT FOCUS LENS	50° OPTIC SOFT FOCUS LENS	80° OPTIC SOFT FOCUS LENS	WALLWASH OPTIC WALLWASH LENS
<13	<16	<16	<19	<19	>19	>19

OUTPUT MULTIPLIER

CCT	CCT SCALE
2400K	0.76
2700K	0.95
3000K	1.00
3500K	1.05
4000K	1.06

TUNABLE WHITE MULTIPLIER

CCT	5000K- 2700K	4000K- 1800K
5000K	1.16	-
4000K	1.08	1.14
3500K	1.04	1.07
3000K	1.00	1.00
2700K	0.96	0.92
2400K	-	0.84
1800K	-	0.69

MEDIA LIGHT LOSS FACTOR

MEDIA	LLF
NO MEDIA	1.11
SOFT FOCUS	1
CLEAR	1
HONEYCOMB	0.77
HONEYCOMB W/ SOFT FOCUS	0.77
LINEAR SPREAD	0.76
HONEYCOMB W/ CLEAR	0.76

FINISH LIGHT LOSS FACTOR

BAFFLE FINISH	LLF
WHITE	1.00
CASHMERE GOLD	0.96
SATIN SILVER	0.95
BURNT BRONZE	0.93
BLACK	0.92

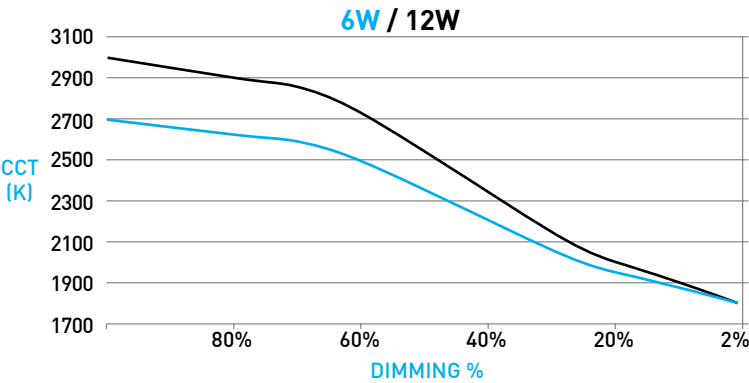
Part L 75+ LPW configurations comply with residential Part L
95+ LPW configurations comply with commercial Part L

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WARM DIM PERFORMANCE - SOFT FOCUS FILM - 15° OPTIC

9009D 3000K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	3000	2900	2850	2550	2000	1900	1800
Light Output (Lm)	668	534	467	334	133	66	13
Power (W)	12	9.6	8.4	6	2.4	1.2	0.2
Efficacy (LPW)	55	55	55	55	55	55	55

9005D 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700	2160	1890	1350	540	270	54
Light Output (Lm)	391	313	274	196	78	39	8
Power (W)	6	4.8	4.2	3	1.2	0.6	0.1
Efficacy (LPW)	65	65	65	65	65	65	65



DRIVE CURRENT SPECIFICS

	8006D	8009H	8012D	9007D	9009H	9010D	9506H	9509H	9509D	9005WD	9009WD	9010DTH	9010DTR
Minimum Vf	31	31	31	31	31	31	31	31	31	31	31	31	31
Maximum Vf	37	37	37	37	37	37	37	37	37	37	37	37	37
Current mA	150	200	280	150	200	280	150	200	280	150	280	225	225
Wattage W	5.1	7.4	9.3	5.1	7.4	9.3	5.1	7.4	9.3	4.9	9.3	8.3	8.3

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DOWNLIGHT

- A TRIM**
Adjustable - Hot-aim tilt up to 30° and 362° rotation. Offset pivot point optimizes center beam. Max ceiling thickness for 30° tilt is 35mm.
- B STANDARD OPTICS**
Proprietary optic integrates Reflection, Refraction and TIR offering 15°, 25°, 35°, and 50° beams. 25° optic used for optimal accent washing.
- C1 ADJUSTABLE ZOOM OPTIC**
Proprietary optic integrates Refraction and TIR. Allows precision tuning to beam spreads of 24°, 30°, 36°, 42°, and 48°.
- C2 10° FIELD REDUCER**
Provided with 10° optic, includes honeycomb louver.
- D HONEYCOMB LOUVER**
Clips onto optic and adjusts with fitting.
- E EFFECTS DEVICES**
Soft focus film standard and sealed to baffle on Wet locations. Fitting is limited to 1 film and the honeycomb louver.
- F BAFFLE**
Die-cast removable baffle provides easy access to tilting mechanism and features 45° glare cutoff. Minimizes aperture glare and conceals view into housing or ceiling; includes silicone gasket. Square baffle transitions from square to round.

FITTING PROFILES

- FLANGE OVERLAY**
Installed after ceiling is complete. Requires 59mm diameter cutout. Provides 4mm total contractor (goof) allowance with 5mm flange. Thickness measures 1.5mm
- TRIMLESS DRYWALL**
Installs totally flush with the ceiling with no visible trim. Appliqué includes screws for mounting and has 1.5mm plaster stop. Not recommended for stucco applications.
- TRIMLESS MILLWORK**
Installs totally flush with the ceiling with no visible trim. Utilizes the A2RS or A2SS standard configuration installed behind the ceiling. See additional information on page 4.
- TRIMLESS MILLWORK SPACERS**
Ship with fitting when trimless millwork is specified. Must be installed flush with finished millwork mounting surface. Includes (1) 1.5mm spacer and (8) 3mm spacers.

ADJUSTMENT

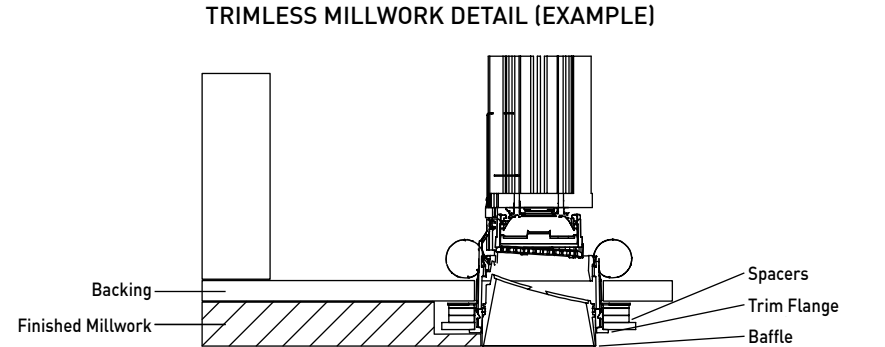
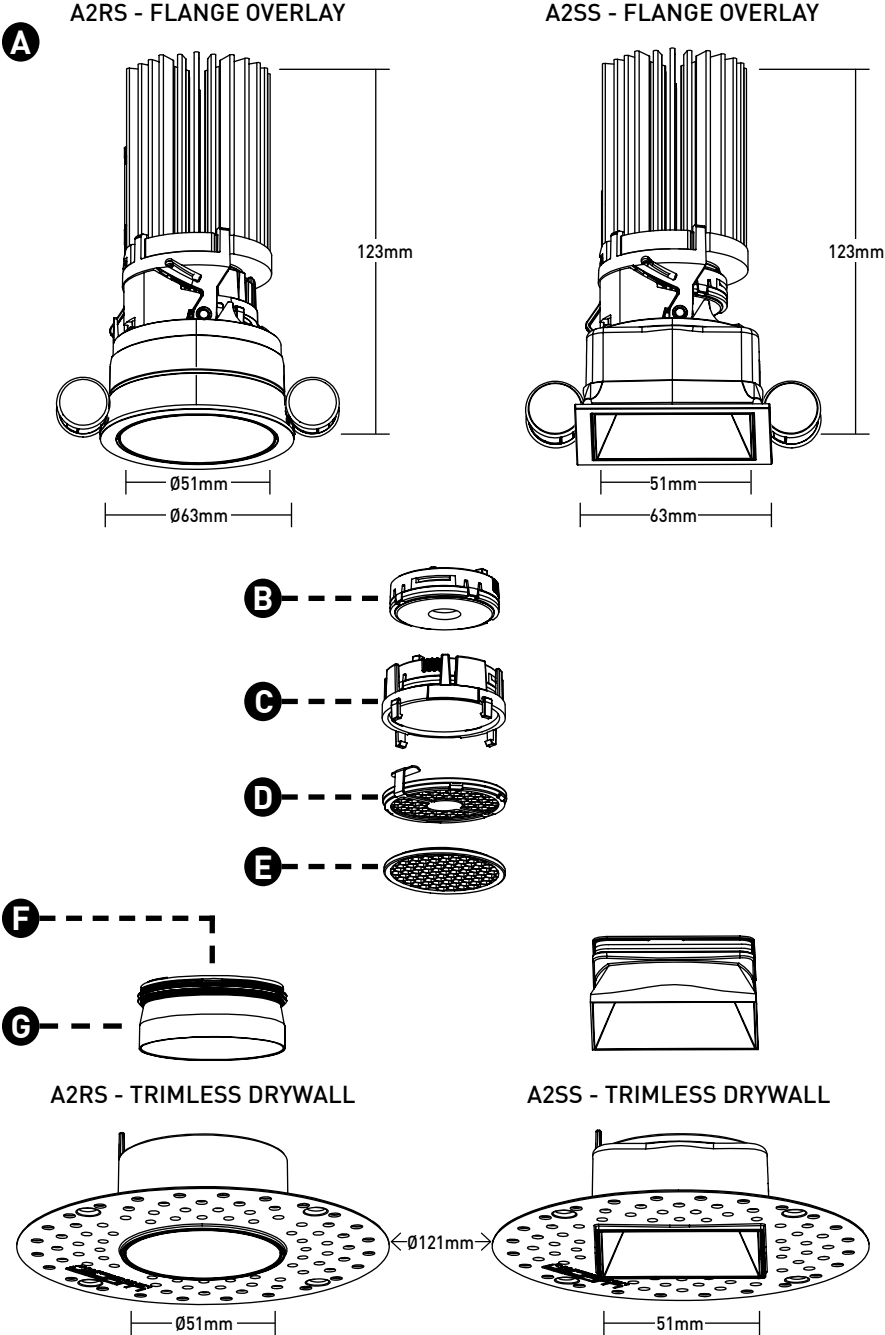
- ADJUSTMENT TOOL**
Minimum 1 provided for every 10 fittings. Utilizes a 0.050" Allen key driver.



TILT CHART

CEILING THICKNESS	≤38mm	≤41mm	≤44mm	≤47mm	≤50mm
MAX TILT	30°	24°	18°	15°	13°

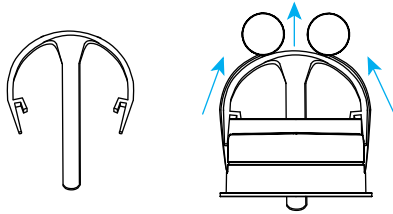
DIMENSIONS / DRAWINGS



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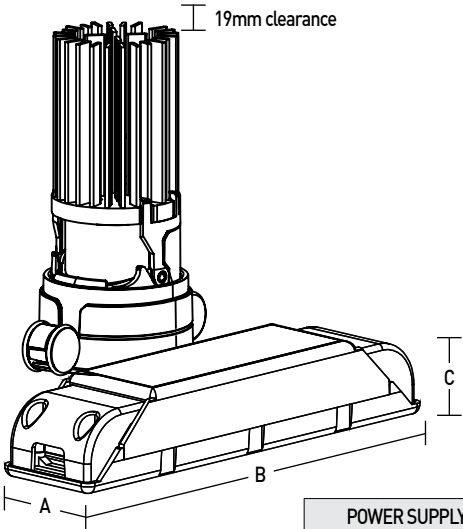
INSTALLATION

- **INSTALLATION TOOL**
Minimum 1 provided for every 10 flange overlay and trimless millwork fixtures.



DIMENSIONS / DRAWINGS

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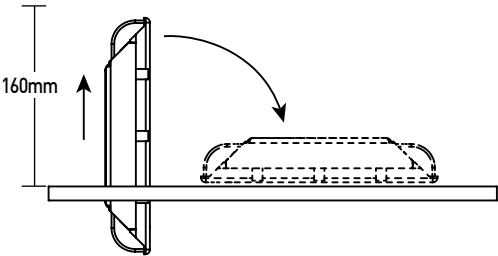


POWER SUPPLY DIMENSIONS			
Model	A	B	C
IP	32mm	83mm	25mm
ID	42mm	161mm	31mm
IN			

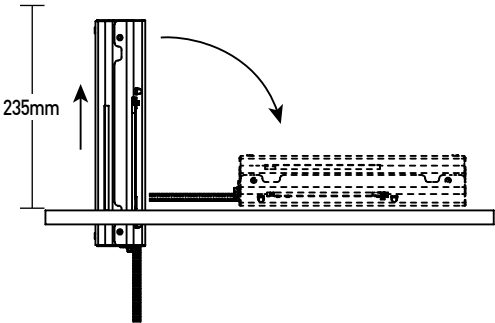
POWER SUPPLY

- **POWER SUPPLY**
- Minimum 160mm (ID / IN) or 235mm (IP) clearance from top of the ceiling plane to allow for driver installation and servicing.
- Minimum 19mm clearance from top of fitting.
- Minimum setback from combustible and non-combustible materials of 168mm radius from fitting centerline.
- Minimum 76mm setback from surfaces of power supply / junction box.
- Minimum additional 76mm setback from insulation material with max R-Value 30 from any surface of downlight fitting assembly.
- Minimum additional 152mm setback from polycell spray foam insulation with max R-Value 60 from any surface of downlight fitting assembly.
- Consult factory for spacing requirements for any installations exceeding R-Value 60.
- Do not install in environments where ambient temperatures exceed 40°C (104°F).

ID / IN DRIVER REQUIRES MINIMUM 160MM CLEARANCE ABOVE CEILING



IP DRIVER REQUIRES MINIMUM 235MM CLEARANCE ABOVE CEILING



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TECHNICAL

CONSTRUCTION

Fitting: Painted finishes are granulated powder coat.

Appliqué: High strength fiber reinforced polymer.

STATIC WHITE LED

2-step MacAdam ellipse LED module available in 80+, 90+, and 95+ CRI configurations in color temperatures of 2700K, 3000K, 3500K and 4000K. 3-step MacAdam ellipse LED module available in 90+ CRI configuration in color temperature of 2400K. Average rated lamp life: 50,000 hours. LED and driver assemblies are field-replaceable.

WARM DIM LED

3-step MacAdam ellipse warm dim LED module available in 90+ CRI configuration. 3000K or 2700K at full brightness, warming to 1800K at full dim. Average rated lamp life of 50,000 hours. LED and driver assemblies are field-replaceable.

TUNABLE WHITE LED

3-step MacAdam ellipse tunable white LED module available in 90+ CRI configuration. Features tuning range of 2700K to 5000K and 1800K to 4000K. Average rated lamp life of 50,000 hours. Driver assemblies are field-replaceable.

POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

	ELV		DALI	
Power Supply	IP	ID	IN	DD
Minimum °C	-10 °C	-20 °C	-20 °C	-20 °C
Maximum °C	40 °C	40 °C	40 °C	40 °C
Dimming %	1.0%	1.0%	1.0%	0.1%

LISTING

CE listed for IP20 Dry / Damp and IP44 Wet locations. NOM Ceritified. Patent Pending.

PART L

Part L compliant for all 75+ LPW residential and 95+ LPW commercial configurations.

WARRANTY

Manufacturer's 1-year warranty guarantees product(s) listed to be free from defects in material and workmanship under normal use and service. 5-year warranty on LED and power supply to operate with 70% of the original flux and remain within a range of 3 duv.

CHANGE LOG

- 05/31/2023: UPDATED ROUND BAFFLE TO FLAT BAFFLE DESIGN.
- 02/07/2024: ADDED 2400K, LOW WATTAGE, AND TUNABLE WHITE OFFERINGS
- 2/15/2024: PART L COMPLIANCE ADDED
- 3/15/2024: ADDED 10 DEGREE FIELD REDUCER, UPDATED 10 DEGREE PERFORMANCE DATA.
- 10/31/2024: ADDED 95+ CRI OFFERING.

