PROJECT NAME:

One of our most versatile and flexible fixtures is now available for sloped ceilings, allowing designers to use a single style of fixture across a wider array of spaces.

#### **ORDERING INFORMATION - DOWNLIGHT / HOUSING**

ORDERING	INFORM	ATION - D	OWNLIG	HT / HOU	JSING				(		-2022 INDICATED I	BY SHADING
SLOPE RANGE	SHAPE	TRIM	RATING	Flange Finish	BAFFLE FINISH	CRI/WATTAGE PACKAGE	CCT	OPTIC (UGR)	INSTALL TYPE	Ceiling Thickness	DRIVER	MEDIA
FS1 15° - 30° (3/12 - 7/12) Slope 1 FS2 30° - 45° (7/12 - 12/12) Slope 2	R Round S Square	M Microflange T Trimless Worth Trimless Wood * *(Not available for Wet location)	1 Dry/Damp 2 Wet	WH White AG Satin Silver AU Cashmere Gold BB Burnt Bronze BK Black PR Primer 00 Trimless* * (Required for trimless) CF Custom Finish* * (Consult Factory)	WH White AG Satin Silver AU Cashmere Gold BB Burnt Bronze BK Black PR Primer CF Custom Finish* * (Consult Factory)	STATIC WHITE 80511A 80- CRI, 11 Watts Lumens Delivered - 1041 80515A 80+ CRI, 15 Watts Lumens Delivered - 1413 80521A 80+ CRI, 21 Watts Lumens Delivered - 1918 90511A 90+ CRI, 11 Watts Lumens Delivered - 894 90515A 90+ CRI, 11 Watts Lumens Delivered - 1214 90521A 90+ CRI, 21 Watts Lumens Delivered - 1648 97511A 97+ CRI, 11 Watts Lumens Delivered - 785 97515A 97+ CRI, 15 Watts Lumens Delivered - 1066 97521A 97+ CRI, 21 Watts	24 2400K* *'(90+ CRI only) 27 2700K 30 3000K 35 3500K 40 4000K	15         15° (<19)	INTEGRAL DRIVER X IC / Non IC C IC Airtight* *(CCEA, Airtight & Title 24 compliant DRIVER V IC / Non-IC Remote V IC / Non-IC Airtight, Remote* *(CCEA, Airtight & Title 24 compliant housing)	1 0.5" - 1.375" 2 1.375" - 2.0" 3 2.0" - 2.25"	INTEGRAL / REMOTE           PH         ELV / Triac, 2%, 120V           L2         Lutron, Hi-Lume           1% 2-Wire, 120V         S6           SG         eldoLED, ECOdrive           1%, 0-10V, LOG,         120V-277V           SN         eldoLED, ECOdrive           1%, 0-10V, LIN,         120V-277V           EP         Lutron, Hi-Lume Premier           Ecosystem 0.1%         Fade to Black,           120V or 277V         EG           eldoLED, SOLOdrive         0.1% 0-10V, LOG,           0.1% 0-10V, LOG,         120V - 277V	STANDARD MEDIA 04 Soft Focus Lens ALTERNATE MEDIA 03 Clear Glass Lens* *INotavailable for Warm Dim 05 Frosted Glass Lens 08 Frosted Soft Focus Lens 14 Wide Distribution Lens*
						Lumens Delivered - 1447		<b>20</b> 20° (<13)			EN eldoLED, SOLOdrive 0.1% 0-10V, LIN, 120V - 277V	* (Required and only available for 85°beam spread)
						90W15A 90+ CRI, 15 Watts Incandescent Profile: 2700K - 1800K Lumens Delivered - 884	<b>WL</b> 2700K - 1800K	<b>25</b> 25° (<13) <b>40</b> 40° (<13) <b>60</b> 60° (<16)			ED eldoLED, SOLOdrive 0.1% DALI-2, LOG, 120V - 277V	<ul><li>26 Frosted Linear Spread Lens</li><li>28 Adjustable</li></ul>
						Halogen Profile: 3000K - 1800K Lumens Delivered - 920	WD 3000K - 1800K	85 85°*(>19) *(Requires -14 WDL media)			AS1 / Athena Control ASR eldoLED, SOLOdrive 0.1%* *(Includes Athena Node. Extended lead time, consult factory. ASR	Honeycomb Louver and Soft Focus Lens *
						SEE PAGE 3 FOR DETAILED WARM DIM PROFILE COMPARISON.		<b>4E</b> 150(1/)			includes shunt) CS1 / Casambi Control CSR eldoLED, SOLOdrive 0.1%* "Includes Casambi Node. Extended lead time, consult factory. CSR includes shunt]	* (Not available with wet location, or Airtight Housings)
						<b>90T15B</b> 90+ CRI, 15W Cool Profile: 5000K - 2700K	TH 5000K - 2700K TR 4000K - 1800K	15         15° (<16)			TUNABLE WHITE POWER SUPPLIES	
						Lumens Dlvd 1187 Warm Profile: 4000K - 1800K Lumens Dlvd 1198	100011	<b>40</b> 40° (<13) <b>60</b> 60° (<16)			DG eldoLED, DUALdrive 0.1% 0-10V, LOG 120 - 277V	
	(14/1-1)			(A11)				85 85°*(>19) *(Requires - 14 WDL media)			DN eldoLED, DUALdrive 0.1% 0-10V, LIN 120 - 277V	
F	(WH) White Powder Coat	(AG) Satin Si Powder	lver Ca	(AU) shmere Gold owder Coat							DD eldoLED, DUALdrive 0.1% DALI-2, LOG 120 - 277Vz	
	Burr	(BB) nt Bronze rder Coat	(BK) Black Powder Coa	at							AD1 / Athena Control ADR eldoLED, DUALdrive 0.1%* *[Includes Athena Node. Extended lead time, consult factory. ADR includes shunt]	
						LUMENS DELIVERED AND T24 COMPLIANCE REFLECT 3000K, 60° OPTIC, SOFT FOCUS LENS, AND 5/12 CEILING PITCH.		SEE PAGE 3 FOR UGR RATINGS			CD1 / Casambi Control CDR eldoLED, DUALdrive 0.1%* *(Includes Casambi Node. Extended lead time, consult factory. CDR includes shunt)	

#### **PART NUMBER NOTES**

Housing and trim ship as e.g., FS1RM1-WHBK-90C14A2-3X1-AT104



[DATE OF REV: 02082024]

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#### ACCESSORIES

#### ALTERNATE MEDIA

Dry / Damp location only.

#### ADJUSTABLE HCL ASSEMBLY

Dry / Damp location only.

DIN OLR-F3RS1-SFL-HCL Adjustable Honeycomb Louver and Soft Focus Lens\*

\*(Not available for Wet location or Airtight housings)

 □ CGL-F3R
 Clear Glass Lens\*

 \*[Not available for Warm Dim]

 □ FGL-F3R
 Frosted Glass Lens

 □ SFL-F3R
 Soft Focus Lens

 □ FSFL-F3R
 Frosted Soft Focus Lens

 □ WDL-F3R
 Wide Distribution Lens\*

 \*(Only available for 85° beam spread)
 □ FLSL-F3R

#### **REPLACEMENT OPTICS**

Interchangeable optics accessible through fixture aperture.

Static W	hite	Warm D	im	Tunable V	Vhite
🗆 R0-50-15-S	15° optic	🗆 R0-50-20-W	20° optic	🗆 RO-50-15-T	15° optic
🗆 R0-50-20-S	20° optic	🗆 R0-50-25-W	25° optic	🗆 RO-50-20-T	20° optic
🗆 R0-50-25-S	25° optic	🗆 R0-50-40-W	40° optic	🗆 RO-50-25-T	25° optic
🗆 R0-50-40-S	40° optic	🗆 R0-50-60-W	60° optic	🗆 RO-50-40-T	40° optic
🗆 R0-50-60-S	60° optic			🗆 RO-50-60-T	60° optic

#### HANGER BAR EXTENDER KIT

Extends hanger bars from 24.0" to 46.0" maximum. **FRX-HBE-46** Extender, Hanger Bar

#### FURRING CHANNEL ACCESSORY KIT

Recommended for installations in furring channel. Available for ceiling thicknesses from  $0.5^{\circ}$  -  $2.25^{\circ}.$ 

DHA-FC-KIT

#### **EMERGENCY LIGHTING - REMOTE MOUNT ONLY**

During disruption of main power, emergency battery inverter provides temporary 120V or 277V to fixture.

EMB-S-25-120/277-LEDX	25 watt max capacity, 120 or 277 VAC 60Hz, Non-Dimmable
EMB-S-100-120-LEDX	100 watt max capacity, 120 VAC 60Hz, 0-10V Dimmable
EMB-S-100-277-LEDX	100 watt max capacity, 277 VAC 60Hz, 0-10V Dimmable
EMB-S-250-120/277-LEDX	250 watt max capacity, 120 or 277 VAC 60Hz, 0-10V Dimmable

#### \*SHUNT REQUIRED FOR USE WITH ATHENA AND CASAMBI CONTROLS, CONSULT FACTORY FOR DETAILS.



#### PERFORMANCE - 3000K

LUMEN	WATTAGE	15° 0 SOFT FOC		20° 0 SOFT FOO		25° 0 SOFT FOO		40° 0 SOFT FOO		60° 0 SOFT FOO		85° 0 WIDE DISTRIE	
PACKAGE	MAINAGE	DELIVERED	LPW	DELIVERED	LPW								
80S11A	11	939	85	989	90	1077	98	1036	94	1041	95	941	86
80S15A	15	1269	85	1332	89	1369	91	1332	89	1413	94	1413	94
80S21A	21	1718	82	1793	85	1851	88	1798	86	1918	91	1702	81
90S11A	11	807	73	850	77	925	84	890	81	894	81	808	73
90S15A	15	1090	73	1144	76	1176	78	1144	76	1214	81	1077	72
90S21A	21	1476	70	1540	73	1590	76	1545	74	1648	78	1462	70
97S11A	11	709	64	746	68	812	74	781	71	785	71	709	64
97S15A	15	957	64	1004	67	1033	69	1004	67	1066	71	946	63
97S21A	21	1296	62	1352	64	1396	66	1356	65	1447	69	1284	61
90W15A (WL 27K-18K)	15	-	-	911	61	875	58	753	50	884	59	748	50
90W15B (WD 30K-18K)	15	-	-	889	59	886	59	961	64	920	61	758	51
90T15A (TR 40K-18K)	15	971	65	1091	73	1036	69	1014	68	1187	79	931	62
90T15B (TH 50K-27K)	15	980	65	1101	73	1045	70	1023	68	1198	80	939	63

JA8-2022 INDICATED BY SHADING

OUTPUT MULTIPLIER

CCT	CCT SCALE
2400K	0.85
2700K	0.97
3000K	1.00
3500K	1.03
4000K	1.08

#### MEDIA LIGHT LOSS FACTOR

MEDIA	LIGHT LOSS FACTOR
NO LENS	1.06
CGL	1.00
SFL	1.00
FGL	0.89
FSFL	0.81
FLSL	0.82
HCL	0.73

#### TUNABLE WHITE MULTIPLIER

ССТ	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

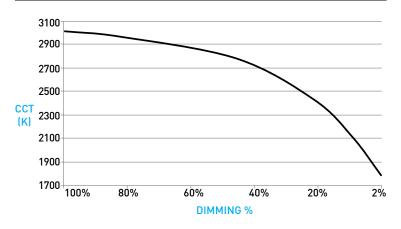
#### \*Performance reflects 5/12 ceiling pitch and 0.5" ceiling thickness. Consult factory for additional performance information.

#### UNIFIED GLARE RATING

10° OPTIC	15° OPTIC	20° OPTIC	25° OPTIC	40° OPTIC	60° OPTIC	85° OPTIC
N0 LENS	SOFT FOCUS LENS	SOFT FOCUS LENS	SOFT FOCUS LENS	SOFT FOCUS LENS	SOFT FOCUS LENS	WIDE DISTRIBUTION LENS
<19	<19	<13	<13	<19	<19	>19

#### WARM DIM PERFORMANCE - 60° OPTIC - SOFT FOCUS LENS

90W15AL 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	2650	2620	2520	2180	1950	1800					
Light Output (Lm)	884	707	619	442	177	88.4	18					
Power (W)	15	12	10.5	7.5	3	1.5	0.3					
Efficacy (LPW)	59	59	59	59	59	59	60					

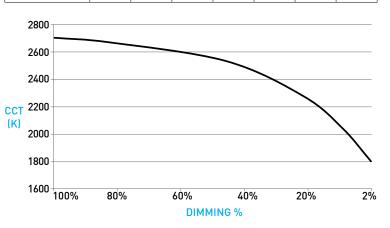


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#### INCANDESCENT DIMMING PROFILE

HALOGEN DIMMING PROFILE

90W15AD 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	2950	2920	2775	2375	2000	1800
Light Output (Lm)	920	736	644	460	184	92	18.4
Power (W)	15	12	10.5	7.5	3	1.5	0.3
Efficacy (LPW)	61	61	61	61	61	61	61





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#### **DOWNLIGHT / HOUSING**

#### A PITCH ADJUSTMENT

Tilting mechanism is integral to the housing, provides lockable tilt for 3/12 (15°) - 12/12 (45°) slope ranges. Ships in 12/12 (45°) position (see I tilt guide).

#### B LED

Integral LED module design enables field service / replacement through housing aperture.

#### C OPTIC

Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering 10°, 15°, 20°, 25°, 40° & 60° beams.

#### TRIMLESS WOOD SPACERS

Provided for Trimless Wood installations; includes (1) 1/16" spacer and (5) 1/8" spacers.

#### TRIM EXTENSIONS

Provided for -2 and -3 ceiling thickness; accommodate 2.25" max ceiling thickness.

#### MICROFLANGE PROFILE

Features 0.30" flange. Thickness measures 0.06". Installed after ceiling is complete. Round requires 5.4" diameter cutout, and square requires 5.57" x 5.66" cutout. Wet location features integral silicone gasket.

#### G TRIMLESS DRYWALL PROFILE

Installs totally flush with the ceiling with no visible trim. Appliqué has 0.07" plaster stop. Not recommended for stucco applications.

#### MEDIA / LENS RETAINER

Fixture is limited to 1 media, Soft Focus Lens standard. Lens retainer allows media to be changed in Dry /Damp and Wet locations.

#### ADJUSTABLE HCL ASSEMBLY

Honeycomb Louver and Soft Focus Lens attach directly to optic with clip-on lens retainer and adjusts with fixture. Only compatible with no lens baffle. Dry/Damp locations only. Specified as -28 Media.

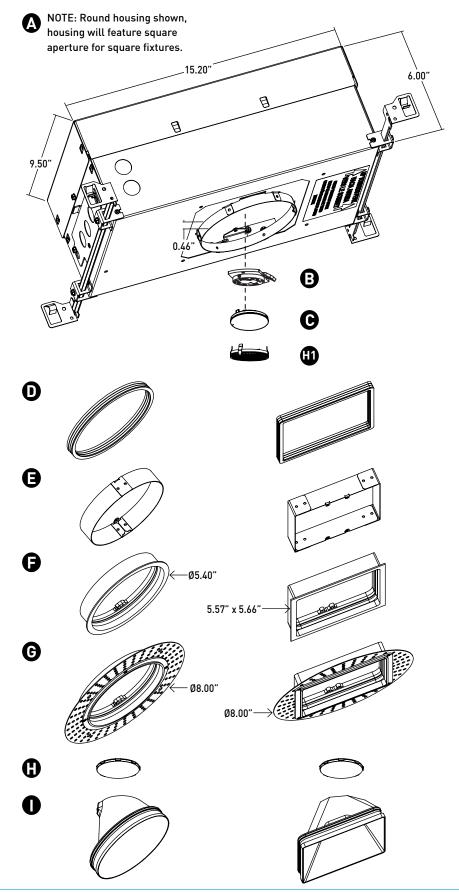
#### ROUND BAFFLE

Removable baffle provides easy access to tilting mechanism. Minimizes aperture glare and conceals view into housing; includes gasket. Available in two slope ranges 3/12 - 7/12 (15° - 30°) (and 7/12 - 12/12 (30° - 45°) (b).

#### SQUARE TRANSITIONAL BAFFLE

Removable baffle provides easy access to tilting mechanism. Transitions from square aperture at ceiling plane to round aperture at light source. Minimizes aperture glare and conceals view into housing; includes gasket. Available in two slope ranges 3/12 - 7/12 (15° - 30°) and 7/12 - 12/12 (30° - 45°) N.

#### **DIMENSIONS / DRAWINGS**





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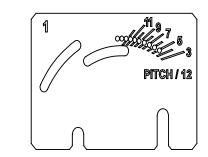
#### TILT / BAFFLE

#### **I** TILT GUIDE

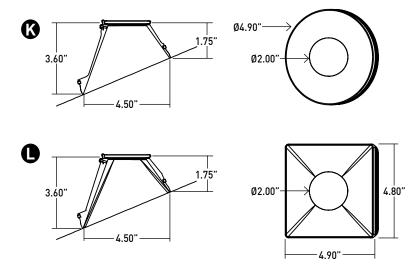
Displays tilt indicators to adjust trim to ceiling pitch.

**DIMENSIONS / DRAWINGS** 

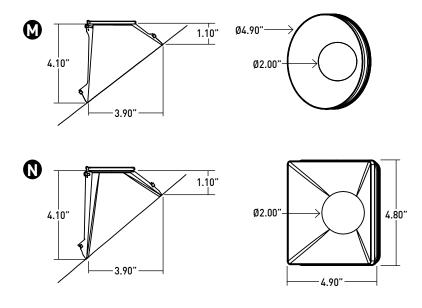
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SLOPE 1 BAFFLE: 15° - 30° (3/12 - 7/12) SLOPE RANGES



SLOPE 2 BAFFLE: 30° - 45° (7/12 - 12/12) SLOPE RANGES

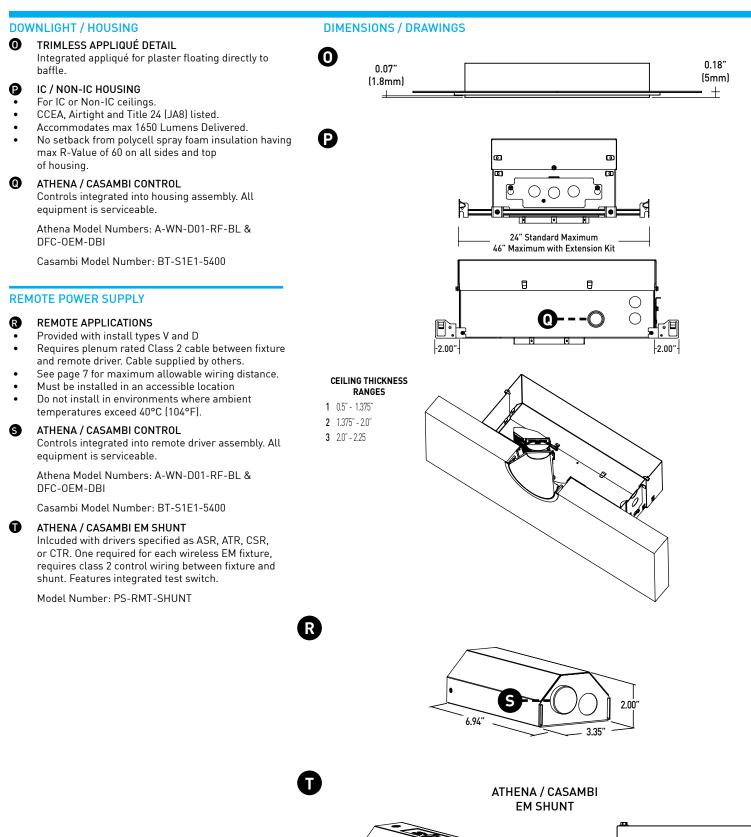


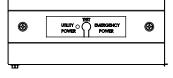


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6.94'

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2.00

3.35

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### TECHNICAL

#### CONSTRUCTION

<u>Downlight</u>: Painted finishes are granulated powder coat. <u>Housing</u>: Aluminum and 22 Gauge galvanized steel. <u>Remote Power Supply</u>: 22 Gauge galvanized steel. <u>Appliqué</u>: Aluminum and 22 Gauge galvanized steel.

#### STATIC WHITE LED

2-step MacAdam ellipse LED module available in 80+, 90+ and 97+ 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 of 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. Average rated lamp life of 50,000 hours. LED and driver assemblies are field-replaceable.

#### POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

	PH	ASE	0-10V					EC0	DAI	_l-2	ATHENA AS AD		CASAMBI		
Power Supply	PH	L2	SG	SN	EG	EN	DG	DN	LP	ED	DD	AS	AD	CS	CD
Minimum °C	-20 °C	0°C	-20 °C	0°C	-20 °C	-20 °C	0°C	0°C	- 20°C	- 20°C					
Maximum °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40°C	40 °C	40 °C	40 °C	40 °C	40 °C
Dimming %	2.0%	1.0%	1.0%	1.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Note: For PH, L2, LH, LP, EG and EN drivers consult chart on page 8 to confirm appropriate dimming curve for compatibility with selected control.

#### MAXIMUM ALLOWABLE REMOTE DRIVER WIRING DISTANCES

	WIRE AWG					
DRIVER	12	14	16	18	20	
РН	285'	180'	113′	71'	45'	
LP, L2	60'	40'	25'	15'	-	
EG, EN, ED, DG, DN, DD, SG, SN, AS, CS, AD, CD	-	-	118'	72	46'	

#### LISTING

cTUVus listed to UL1598 standard for Dry / Damp and Wet locations. CCEA, Airtight and Title 24 JA8-2022 Listed. NEMA 410 Compliant.

#### WEIGHT

Fixture - 9 lbs max Remote Driver - 1.4 lbs

#### LIMITED 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. 10-year Lutron Advantage limited warranty available on Lutron equipped systems. Warranty period begins from the date of shipment by Seller. Consult website for full warranty terms and conditions.

#### LUCIPER" LIGHTING COMPANY

[DATE OF REV: 02082024]



1. 03/14/2022: ADDED AN AND LN DRIVER OFFERINGS.

2.10/17/2022: REMOVED 90W13A 3200K-1800K WARM DIM AND ADDED 90W12A 3000K-1800K WARM DIM.

- 3. 08/08/2023: ADDED NEW LED AND OPTIC SYSTEM.
- 4. 02/08/2024: ADDED ATHENA AND CASAMBI CONTROL OFFERING, 2400K, AND WARM PROFILE TUNABLE WHITE.

#### DIMMING COMPATIBILITY

#### PHILIPS DRIVER COMPATIBILITY

Power supply <b>PH</b> Manufacturer	Family/Model #
Lutron Electronics	DV-600P
Lutron Electronics	DVELV-303P
Lutron Electronics	NTELV-600
Lutron Electronics	MAELV-600
Lutron Electronics	SELV-300P
Lutron Electronics	DVLV-600P
Lutron Electronics	NFTU-5A
Lutron Electronics	CTCL-153P
Lutron Electronics	GL-600H
Lutron Electronics	S-600P
Lutron Electronics	PHPM

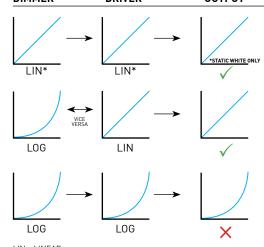
#### LUTRON DRIVER COMPATIBILITY

Power supply <b>L2</b> Lutron Product Family	Part No.
Maestro WirelessR 600 W dimmer	MRF2-6ND-120-
Maestro WirelessR 1000 W dimmer	MRF2-10ND-120-
Caséta® Wireless Pro 1000 W dimmer	PD-10NXD-
GRAFIK T™ CL® dimmer	GT-250M- GTJ-250M-
HomeWorks® QS adaptive dimmer	HQRD-6NA-
HomeWorks® QS 600 W dimmer	HQRD-6ND-
HomeWorks® QS 1000 W dimmer	HQRD-10ND-
RadioRA® 2 adaptive dimmer	RRD-6NA-
RadioRA® 2 1000 W dimmer	RRD-10ND
myRoom™ DIN power module	MQSE-4A1-D
HomeWorks® QS DIN power module	LQSE-4A1-D
HomeWorks® QS wallbox power module	HQRJ-WPM-6D-120
HomeWorks® wallbox power module	HWI-WPM-6D-120
GRAFIK Eye® QS control unit	QSGR-, QSGRJ-
GRAFIK Eye® 3000 control unit	GRX-3100- GRX-3500-
RPM-4U module (LCP, HomeWorks® QS, GRAFIK Systems™, Quantum®)	HW-RPM-4U-120 LP-RPM-4U-120
RPM-4A module (LCP, HomeWorks® QS, GRAFIK Systems™, Quantum®)	HW-RPM-4A-120, LP-RPM-4A-120
GP dimming panels	Various
Ariadni CL 250W dimmer	AYCL-253P-
Diva CL 250W dimmer	DVCL-253P- DCSCCL-253P-
Nova T CL 250W dimmer	NTCL-250-
Power supply <b>LH / LP</b> Lutron Product Family	Part No.
PowPak Dimming Modules	RMJ-EC032-DV-B
PowPak Dimming Modules	FCJ/FCJS-ECO
Energi Savr Nodes	QSN-1ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSN-2ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSGRJE (wireless) QSGRE
Quantum Hub	QP22C
Quantum Hub	QP24C
Quantum Hub	QP26C
Quantum Hub	QP2- 8C
Homeworks QS power module myRoom Plus power module	LQSE-2ECO-D

#### eldoLED DRIVER COMPATIBILITY

Power supply <b>EG</b> Manufacturer	Family/Model #
Busch-Jaeger	2112U-101
Jung	240-10
Leviton Lighting Controls	IP710-DLX
Lightolier Controls	ZP600FAM120
Merten	5729
Pass & Seymour	CD4FB-W
The Watt Stopper	DCLV1
Synergy	ISD BC
Crestron®	GLX-DIMFLV8
Crestron®	GLXP-DIMFLV8
Crestron®	GLPAC-DIMFLV4-*
Crestron®	GLPAC-DIMFLV8-*
Crestron®	GLPP-DIMFLVEX-PM
Crestron®	GLPP-1DIMFLV2EX-PM
Crestron®	GLPP-1DIMFLV3EX-PM
Crestron®	DIN-A08
Crestron®	DIN-4DIMFLV4
Crestron®	CLS-EXP-DIMFLV
Crestron®	CLCI-1DIMFLV2EX
Power supply <b>EN</b> Manufacturer	Family/Model #
Lutron Electronics	Nova T® - NTFTV
Lutron Electronics	Diva® - DVTV
Lutron Electronics	Nova® - NFTV
Lutron Electronics	GrafixEye® GRX-TVI w GRX3503
Lutron Electronics	Energy Savr Node™ - QSN-4T16-S
Lutron Electronics	TVM2 Module
Sensor Switch	nIO EZ
ABB	SD/S 2.16.1

#### ANALOG DRIVERS AND DIMMERS DIMMER DRIVER OUTPUT



LIN = LINEAR LOG = LOGARITHMIC

\*LIN-TO-LIN NOT COMPATIBLE FOR WARM-DIM



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