

# AIRA

OPEN CENTER LINEAR PENDANT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## FEATURES

- Refined aesthetic with the ability to see through the center of the luminaire provides scale without weight overhead
- Semi-Direct (25/75) distribution with extra wide direct and low peak indirect for wide fixture spacing and lighting power density maximization
- Integral driver, battery and control options for ease of contractor installation
- Complimentary luminous, open center system connectors (L, T, X) allow creation of patterns
- Housing and cross bar inserts are finished to specification to complement the palette of your space

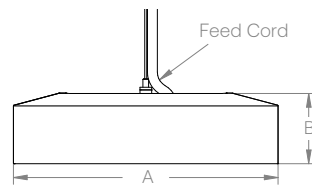


**TriGain**  
technology

## CONTROL TECHNOLOGY



## SERVICE PROGRAM



Typical Dimensions		
"A" Width Inches (mm)	"B" Height Inches (mm)	Max Weight
8 (204)	2.1 (54)	4 lbs/ft

See DIMENSIONS section for complete details

## SPECIFICATIONS

### CONSTRUCTION

- Nominal 2" x 8" rectilinear cross section
- 6063-T6 extruded aluminum housing assembled with die cast and machined aluminum parts
- Dual purpose formed 20GA prepaint steel reflector also serves as wireway cover
- Finished components are powder-coat. Matte polyester powder coat applied in-house on after multi stage wash
- Low profile cable gripper limits visibility from most viewing angles
- Pendant location at ends of rows (or individual fixtures) are 1/8" from fixture ends, and allows for horizontal adjustment to "fine-tune" leveling
- Suspension required at every row joint. 3/64" diameter field-adjustable aircraft cables or stem options available
- Non-feed canopy covers 2" diameter (unless 5" non-feed cover specified).
- Illuminated system connectors in L, T and X shape configurations. One piece construction, ready to install, with diffusers that match adjoining fixtures. Corner system connectors must be used to form patterns.

### OPTICS

- UV stabilized, impact resistant, matte textured surface soft diffuse acrylic extruded lens ships installed. Product installation does not require removal of lens
- Semi-Direct (25/75) optical distribution delivers 150-1500 Lumens/foot
- 115° low peak angle indirect distribution
- Ultra wide direct distribution
- Die-formed steel crossbar insert overlaps diffuser end to eliminate gaps and LED visibility, finished to specification

### ELECTRICAL

- Variable Intensity (VI) technology allows precise specification of fixture output/wattage. Fixture will be programmed and labeled to specification
- Current's patented TriGain® phosphor delivers 90 CRI color quality at 80 CRI efficacy
- 2 SDCM color consistency
- Lens, LED Boards and integral solid state constant current drivers are field-serviceable while installed
- Fixture wired for a single circuit. Nightlight (NL) option available.
- Emergency Battery: Integral 10W battery powered driver. Provides a minimum of 90 minutes of emergency lighting.
- Inverter-Compatible, provided by others.
- Sensors install at end of individual fixtures. For rows or additional information, contact factory
- NX and SpectraSync™ compatible

### CERTIFICATIONS

- cCSAus certified to UL 1598
- UL924
- Suitable for damp locations
- IBEW
- AF of L
- This product offers BABA compliant configurations. Configurations including batteries, sensors, controls, and some drivers may not be compliant. Please consult factory to verify BABA compliance for a given configuration.
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See [Buy America\(n\) Solutions](#).
- Emergency Battery Backup options are California Energy Commission (CEC) Title 20 Compliant.
- Install in environments where ambient temperature does not exceed 25°C
- DLC V5.1 listed luminaire. Not all product variations listed in this document are DLC qualified. Refer to [designlights.org](#) for most up-to-date list.

### WARRANTY

- 5 year warranty

KEY DATA	
Output Range	150-1500 Lm/Ft
Efficacy Range	102 - 121 LPW
Color Consistency	2 SDCM

DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_  
 CATALOG #: \_\_\_\_\_

Gray  
Highlighting

= 10 Day Quick Ship Program



**ORDERING GUIDE**

**Example:** AIRA-P-SD-LPA-24-8-SOF-WHS-RGYS-35K9-SD050-D01-1C-UNV-FA1

CATALOG # \_\_\_\_\_

AIRA Series	P Mounting	Fixture Distribution	Indirect Optics	Row Length	Max Length in Row	Diffuser	Finish
AIRA	P Pendant	SD Semi-Direct	LPA Low Peak Angle	' Enter in foot increments	2 2' 3 3' 4 4' 5 5' 6 6' 8 8'	SOF Soft Diffuse Lens	WHS White, Smooth (C1) GYS Gray, Smooth (C4) BLS Black, Smooth (C5) CC Custom Color

Crossbar Insert Finish	CCT/CRI	Lumen Output <sup>3</sup>	Dimming	Circuiting	Voltage	Suspension Kit <sup>5</sup>
RWHS White, Smooth (C1)	27K9 2700K, 90CRI	SD015 150 (min) to SD150 1500 (max)	D01 1% 0-10V D05 5% 0-10V NDM Non-Dimming LEC 1% Lutron Hi-Lume EcoSystem <sup>1</sup> DALIP DALIP <sup>1</sup> SEN 1% for use with Sensors	1C Single Circuit	UNV Universal (120V-277V) 347 347V <sup>1,4</sup>	FA1 Suspension Kit, 51" FA2 Suspension Kit, 87" FA3 Suspension Kit, 219" FA4 Suspension Kit, 363" P Swivel Stem Kit, 36"
RGYS Gray, Smooth (C4)	30K9 3000K, 90CRI					
RBLS Black, Smooth (C5)	35K9 3500K, 90CRI					
RWH White, Textured	40K9 4000K, 90CRI					
RGY Gray, Textured	50K9 5000K, 90CRI					
RBL Black, Textured	2765T 2700-6500K Tunable White, 90CRI <sup>1,2</sup>					
RGT Graphite						
RPP Pink Panache						
RGH Grasshopper						
RCOS Copper						
RX Custom Color						

**OPTIONAL**

Nightlight	Emergency <sup>6</sup>	Patterns <sup>7</sup>
NL Nightlight Circuit Required. Enter quantity. 2NL = 2 nightlight circuits/row	EF 10W Emergency Battery Pack (CEC Title 20 Compliant) Enter quantity. 2EF = 2 emergency batteries/row	C90L Illuminated "L" C90T Illuminated "T" C90X Illuminated "X"

**Controls & Sensors <sup>1,8</sup>**

**NX Networked - Wireless <sup>9</sup>**

NXWSM	NX Networked Wireless Enabled Integral NXSM2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming
NXCS	NX Connect NXC-WIZ20 Wireless Indoor Occupancy and Photocell Sensor

**Other**

ODPG	Philips SNS200
ODWG	Wattstopper LMFS-601

**Notes:**

- Additional lead time may be applicable. Consult factory.
- Must be ordered with D05 dimming.
- Specifiable in 50 lumen increments. Reference the Performance Data Table for full performance offering and exceptions.
- Compatible with D01, D05, NDM, SEN. Excludes EF option.
- Add suffix /V to replace all 2" non-feed canopy covers with 5" canopy covers. FA1/V = 51" suspension kit w/ 5" canopies; canopies and feed cord are supplied in white regardless of fixture color unless otherwise specified.
- EF - 10W battery powered driver. Provides a minimum of 90 minutes of emergency lighting.
- Submittal drawings required for use with NL, EF, or 2765T configurations.
- Submittal drawings required for row configurations and patterns.
- Refer to NX Integrated Controls Reference Table for Functionality of Options.

# AIRA

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## RESTRICTIONS

Lutron (LEC) Restrictions							
Length	150	200	250	300	350-1400	1450	1500
2'	LEC not available						
3'	LEC not available						
4'	LEC not available						LEC not available
5'							
6'							
8'						LEC not available	

Emergency (EF) Restrictions									
Length	150-650	700	750	800	850	900	950	1000	1050-1500
2'	EF not available								
3'	EF not available								
4'									EF not available
5'			EF not available						
6'			EF not available						
8'				LH/RH required for EF+LEC					EF not available

## CONTROLS OPTIONS AND FUNCTIONALITY



	Control Option Ordering Logic & Description		Control Option Functionality							Control Option Components		
			Networkable	Grouping	Scheduling	Occupancy / Motion	Daylight Harvesting	0-10V Dimming	On/Off Control			Bluetooth® App Programming
<b>NX Wired</b>	NXWSM	NX Networked Wireless Enabled Integral NXSM2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓		NXSM2-SMI
<b>NX Independent</b>	NXCS	NX Connect NXC WIZ20 Wireless Indoor Occupancy and Photocell Sensor	-	✓	-	✓	✓	✓	✓	✓ <sup>1</sup>		NXC-WIZ20

1 Requires use of NX Connect App available for download from Apple app store.

## CONTROLS TECHNICAL SUPPORT

1-800-888-8006 (7:00 am-7:00 pm est)

## APP INFORMATION

### NX Lighting Controls App



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.



Android



Apple iOS

### NX Connect App

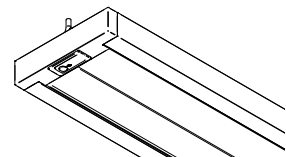


The NX Connect mobile App is a free to use mobile application for programming a NX Connect System. The mobile App allows you to discover, configure and share your NX Connect system.



Apple iOS

### With Sensor



**CONTROLS OPTIONS AND FUNCTIONALITY (CONTINUED)**

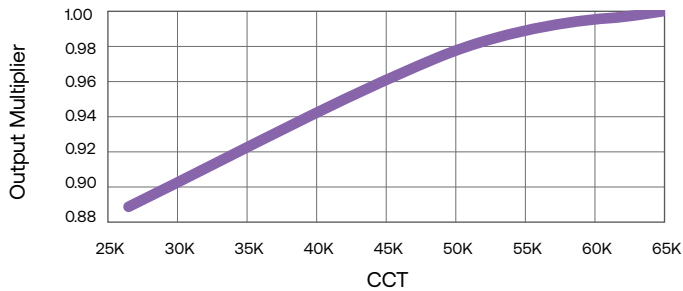
**SpectraSync™ Color Tuning Technology:**

Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



SPECTRASYNCH COLOR TUNING TECHNOLOGY		
Mode	Kelvin Range	Description
Tunable White	2700K-6500K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space

**Relative Light Output Based on CCT**



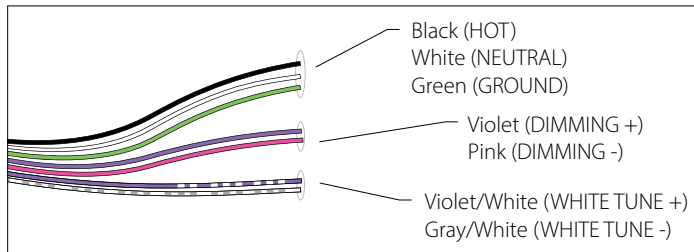
**Controller Manufacturer Data**

SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:

- Current: NX Lighting Controls Room Controllers (NXRCFX2) and In-fixture Controllers (NXFM2)
- Lutron: DDTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers

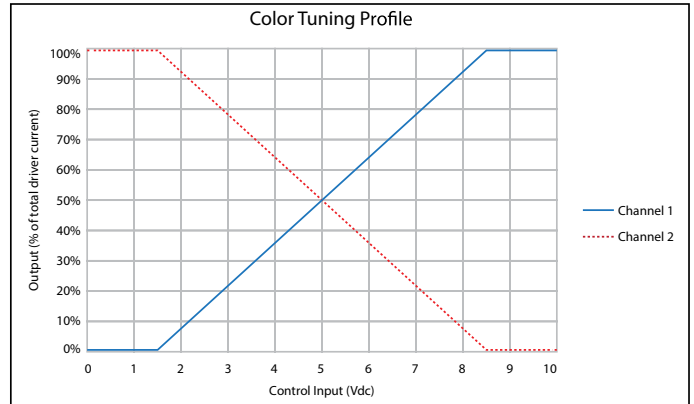
**SpectraSync Tunable White**

Available in 2765T (2700K-6500K). Requires two 0-10V controllers, one for intensity and one for CCT. Minimum 5% dimming.



SpectraSync Tunable White luminaires are provided with two 0-10V circuits. The violet and pink circuit is for wiring to any qualified 0-10V controller for dimming. The violet/white and gray/white circuit is for wiring to any qualified 0-10V controller for Tunable White CCT control.

**Color Tuning Profile**



**PERFORMANCE DATA TABLE**

The table below shows the delivered lumens for the various lumen outputs. Use this chart in connection with the output multiplier capability to deliver any output required

Nomenclature	Lumens/Ft	Wattage/Ft	Efficacy [Lm/W]
SD015	150	1.5	102
SD020	200	1.8	106
SD025	250	2.2	111
SD030	300	2.6	114
SD035	350	3.0	118
SD040	400	3.4	119
SD045	450	3.8	120
SD050	500	4.2	120
SD055	550	4.6	121
SD060	600	5.0	121
SD065	650	5.4	121
SD070	700	5.8	121
SD075	750	6.2	120
SD080	800	6.6	120
SD085	850	7.1	120
SD090	900	7.5	120
SD095	950	7.9	120
SD100	1000	8.4	119
SD105	1050	8.6	119
SD110	1100	9.3	118
SD115	1150	9.8	118
SD120	1200	10.2	117
SD125	1250	10.7	117
SD130	1300	11.2	116
SD135	1350	11.7	116
SD140	1400	12.2	115
SD145	1450	12.7	114
SD150	1500	13.0	115

(wattage may vary up to 5% from published)

**Lumen Maintenance**

Values calculated to estimate lumen degradation over time derived from IES TM-21. Calculations based on luminaires tested to LM-79-2008 in 25°C (77°F) ambient environment at their worst thermal configuration.

	TM-21-22 Reported	TM-21-11 Calculated
L90	>50,000	65,000
L80	>60,000	160,000
L70	N/A	260,000

TM-21-22 reported values are supported by IES standards and based on six times LM-80 test time for the LED and in-situ thermal testing of luminaire per IES TM-21.

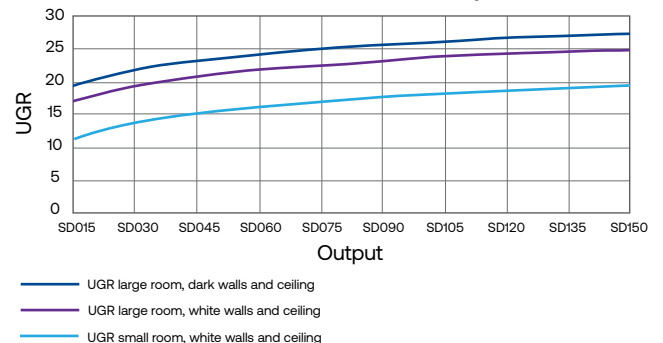
TM-21-11 values represent commonly used theoretical estimations. The IES has published an updated position on LED Product Lifetime Prediction (IES PS-10-18) explaining the proper use of IES TM-21 and LM-80.

**Output Multiplier Table**

Photometrics for the Aira Family are published at a nominal 3500K temperature, 90 CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

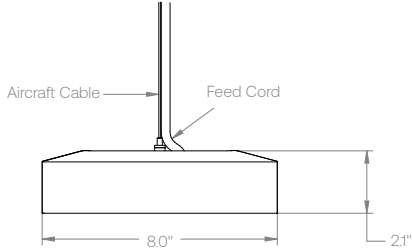
CCT	2700K	3000K	3500K	4000K
Multiplier	0.89	0.96	1.0	1.0

**Relative UGR based on Output**

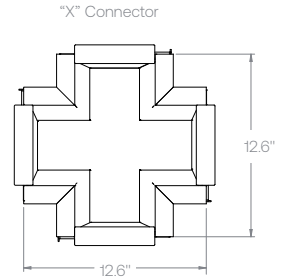
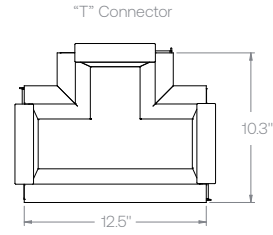
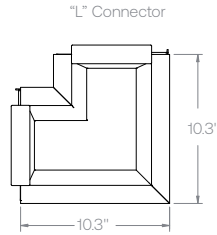


**DIMENSIONS**

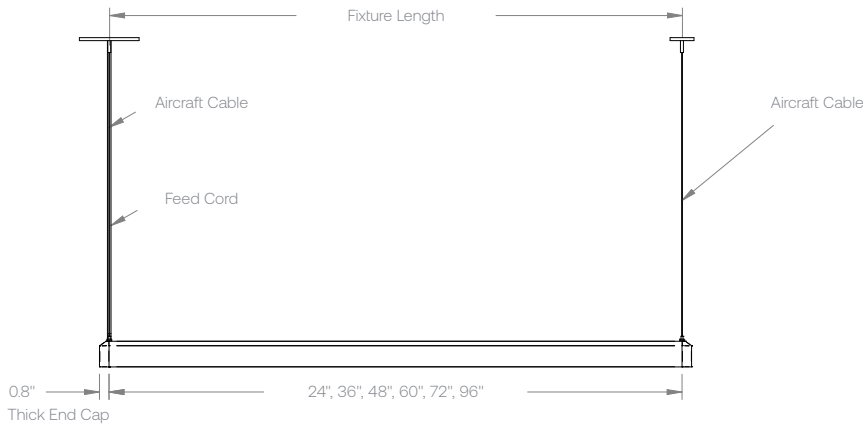
**End View**



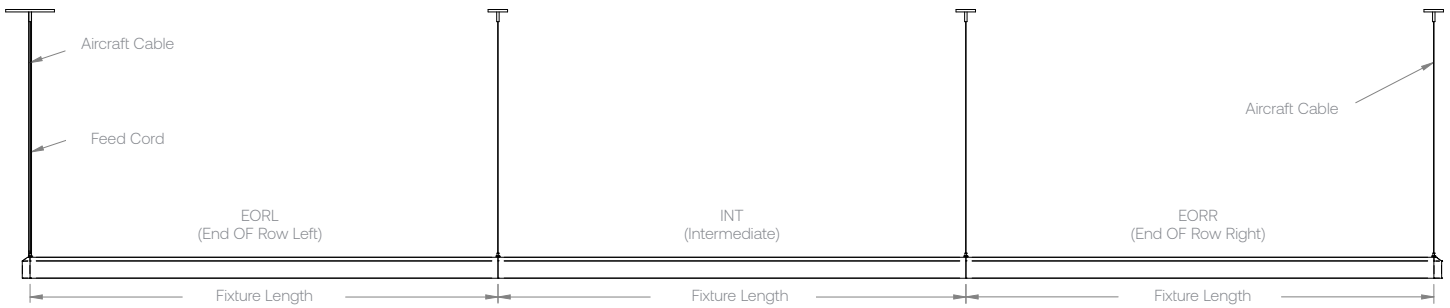
**System Connectors**



**Side View - Individual Mount**

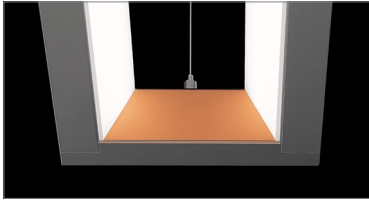


**Side View - Row Mount**

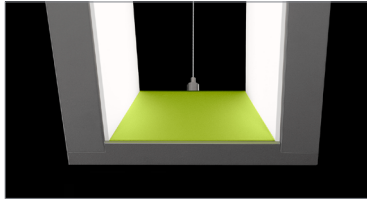


Length	Standard lbs/ft	Max lbs/ft
2	3.3	3.6
3	3.3	3.6
4	3.3	4.0
5	3.2	3.8
6	3.2	4.0
8	3.1	3.7

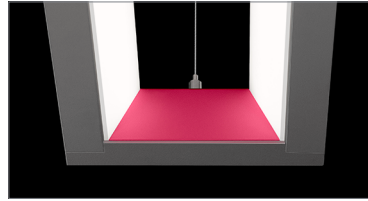
## FINISHES



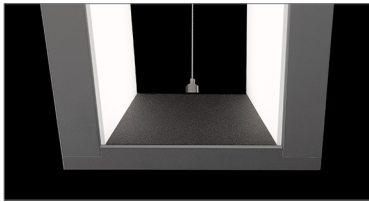
Copper



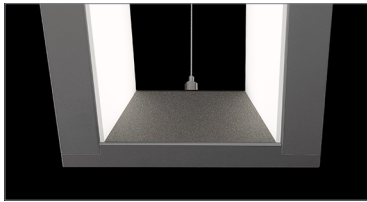
Grasshopper



Pink Panache



Black Textured



Graphite



Gray  
Textured



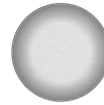
Gray  
Smooth



Black  
Smooth



White  
Textured



White  
Smooth



Custom  
Color

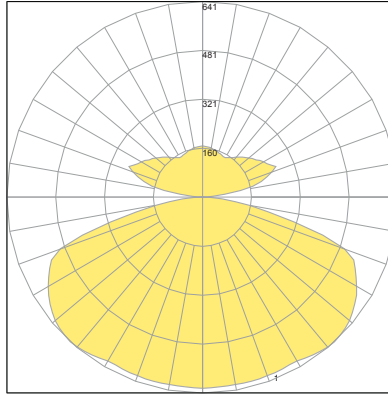
**PHOTOMETRY**

**AIRA-P-SD-LPA-4-SOF-WHS-35K9-SD080-D01-1C-UNV**

**LUMINAIRE DATA**

Test No.	P23.01794
Description	4' Aira Linear Pendant, 3500K
Delivered Lumens	3200
Watts	26.7
Efficacy	120
Mounting	Pendant

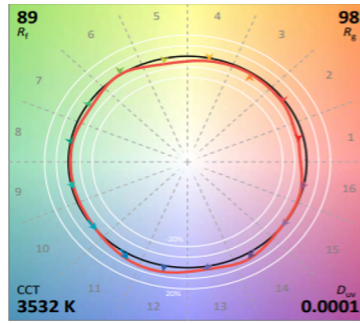
**POLAR GRAPH**



**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
0-40	847	27
0-60	1649	52
0-90	2384	75
0-180	3200	100

**TM-30 DATA**



TEST RESULTS	
Value	35K9
CCT (K)	3533
CIE R <sub>a</sub>	94
D <sub>UV</sub>	0.0001
R <sub>f</sub>	89
R <sub>g</sub>	98
x	0.4036
y	0.3902

	HUE-ANGLE BIN (J)															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Chroma Shift (R <sub>cs,j</sub> )	-12	-8	-3	1	3	4	-2	-4	-7	-7	1	6	6	7	-1	-6
Hue Shift (R <sub>hs,j</sub> )	-0.01	0.07	0.12	0.08	0.05	-0.02	-0.06	-0.02	0.02	0.1	0.14	0.06	-0.03	-0.13	-0.14	-0.12
Fidelity (R <sub>fh,j</sub> )	80	82	77	86	91	92	90	92	89	81	79	83	89	82	80	79

**CRI: 80 MINIMUM**

CCT	CRI	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
35K	94	96	97	95	95	94	95	95	89	73	89	95	70	96	96