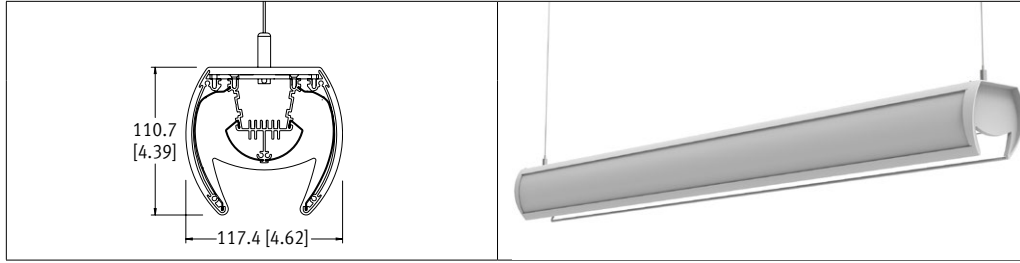


Arches A4P

LED . Pendant . Direct



CAT #:
PREP BY:
DATE:
PROJECT:
TYPE:
NOTES:

ORDERING LOGIC

Sample part number: A4P-1L35K-4-NN-W-L31-PA-1-NN-O

Series/Model	Color Temp	Length	Optics	Up	Down	Finish	LL/Driver	Circuitry	Mounting	Voltage	Control	Drive Loc.	End Cap
A4P				N	N			1				N	
Color Temp		Optics Up		Light Levels (LL) /Driver			Circuitry		Voltage		Driver Location		
2L30K = 3000K		N = None		Fixture Lumens - Direct Light level measured at 3500K. Add 3% lumen output for 4000K or subtract 2% lumen output for 3000K.			1 = 1 Circuit		1 = 120 V		N = None (mounted integral)		
2L35K = 3500K		Optics Down					Mounting		2 = 277 V		R = Remote Driver Box (Consult Factory)		
2L40K = 4000K		N = None		0-10V Dimming (Standard)		3500K		PA = Pendant Aircraft Cable		3 = 347 V		RC = Remote Surface Canopy (Consult Factory)	
Length		Finish		L1 = 2436		L2 = 3100		PT = Pendant Aircraft Cable for T-Bar		4 = UNV (120 - 277 V)		End Cap Options	
2 = 2 ft		B = Black		L3 = 4456		L4 = 8521		SS = Solid Stem		Control		O = Open (Standard)	
4 = 4 ft		SA = Satin Aluminum		Based on 4ft sections.				PP = Power Over Aircraft Cable *		N = None		X = Custom (Consult Factory)	
8 = 8 ft		W = White						* SELECT HANGER LENGTH AND HANGER FINISH ON P.2					
R = Continuous Rows (Consult factory)		C = Custom Finish Specify RAL#:											
		Side Decals are optional. See p.2 for Side Decal Info											

* Remote Mounted Driver Only. Consult Factory.

SPECIFICATIONS

Due to the Continuous Improvement Policy at Metalumen, we reserve the right to change our specifications without notice.

Housing: Rigid 3-piece extruded aluminum body with 22-gauge steel top cover plate.

End Caps: Steel powder coated, semi-open (standard) or closed end. Consult factory for custom end caps

Optical System: MetalLED mid-flux LED technology transmits to internal smooth, high performance reflectors. Open luminaire, no lens design.

CRI: 83+ (3500K) (80 minimum for all CCT)

Lumen Maintenance: At an ambient operating temperature of 25°C our LED system output remains useful at L85 > 60 000hrs.

Finish: Black, satin aluminum, or white powder coated paint finish. For custom finish, contact factory. Side Decals are optional. See p.2 for Side Decal info and options.

Mounting: Steel aircraft cable complete with a Quick-Grip field adjustable suspension system provides for quick and easy on-site alignment.

Drivers: Metalumen offers dimming drivers as a standard on our entire LED product offering at 0-10V. Dimming range is down to 1%. Power factor @ full load is >90% with a Class 2 rating. Drivers are remote with 2 white tunable option.

Controls: Not available.

Options: Consult factory for Lutron driver options:

- L3DAE Hi-lume 1% EcoSystem LED Driver

- L3DA3W Hi-lume 1% 3-wire LED Driver
- LTEA2W Hi-lume 1% 2-wire LED Driver
- LDE1 Hi-lume 1% -H EcoSystem LED Driver
- LDE5 5-Series EcoSystem LED Driver

Approvals: Certified to NRTL safety and IES Recommendation testing standards. All components are UL/CSA/QPS recognized or listed, RoHS, LM79, LM80 and LM82 compliant.

Environment: Suitable for dry locations.

WARRANTY

Metalumen will warrant defective luminaires for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specification. If defective, Metalumen will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Metalumen.

LUMINAIRE WATTAGE AND OUTPUT SPECIFICATION

Light Level	Wattage	Lumens Delivered	Efficacy (LPW)
L1	27.78	2436	87.7
L2	35.42	3100	87.5
L3	48.62	4456	91.6
L4	97.24	8521	87.6

APPROVALS Signature _____

Date _____

FILE NAME: Arches_A4P_LED_PA_PT_SS_SPEC_SHEET

20170307

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Metalumen

FEATURES



COMMERCIAL // Commercial Lighting - With over 30 years of successful architectural lighting, providing unique concept and installation solutions has become second nature. Metalumen's Start to End Development Process results in unique performance, design and architectural requirements from concept through implementation. Metalumen's Lighting Solutions have been

applied to customer projects requiring: high profile architectural installations; improved energy efficiency; retrofit installations; unique installations. Metalumen can provide top-quality innovative fixtures when and where they are needed and, at the same time, allow the customer to determine their level of involvement in Metalumen's Start to End Development Process.



Edulumen is a collection of premium luminaires that maximize both the functionality and performance of any educational facility. Based on maximum efficiency, integration of controls and exceptional design, Edulumen will earn high marks for meeting your requirements. Students challenge themselves throughout the day to achieve, and Metalumen is dedicated to this by

creating sustainable environments that foster enhanced educational experiences

META LED boards with a raw efficacy of over 120lm/W, proprietary to Metalumen. A slim LED platform for any of your LED linear application.

DECAL INFORMATION

Decal Measurements for standalone fixtures

2 ft Length: 630 [24.8]
Height: 87.0 [3.43]

4 ft Length: 1239.6 [48.8]
Height: 87.0 [3.43]

8 ft Length: 2458.8 [96.8]
Height: 87.0 [3.43]

Thickness: 0.50

Consult factory for continuous run decal measurements.

HANGER LENGTH AND FINISH

Select Hanger Length and Finish:

HANGER FINISH	
<input type="checkbox"/>	White (Standard)
<input type="checkbox"/>	Custom Specify RAL#: _____

SOLID STEM - 1/2" OD STANDARD					
Standard supplied length is 18" (460mm). Hangers will be supplied at closest length. All other lengths are considered custom unless otherwise stated.					
	IMPERIAL (in)	METRIC (mm)		METRIC (mm)	
<input type="checkbox"/>	12	305	<input type="checkbox"/>	33	840
<input type="checkbox"/>	15	380	<input type="checkbox"/>	36	915
<input type="checkbox"/>	18	460	<input type="checkbox"/>	39	990
<input type="checkbox"/>	21	533	<input type="checkbox"/>	42	1067
<input type="checkbox"/>	24	610	<input type="checkbox"/>	45	1145
<input type="checkbox"/>	27	685	<input type="checkbox"/>	48	1220
<input type="checkbox"/>	30	760			
<input type="checkbox"/>	Custom length (indicate length in inches): _____				

AIRCRAFT CABLE					
Total adjustment range is 6" up & down for each standard length. All other lengths are considered custom unless otherwise stated.					
	IMPERIAL (in)	METRIC (mm)		METRIC (mm)	
<input type="checkbox"/>	12	305	<input type="checkbox"/>	54	1372
<input type="checkbox"/>	18	460	<input type="checkbox"/>	60	1525
<input type="checkbox"/>	24	610	<input type="checkbox"/>	72	1830
<input type="checkbox"/>	30	760	<input type="checkbox"/>	96	2440
<input type="checkbox"/>	36	915	<input type="checkbox"/>	120	3050
<input type="checkbox"/>	42	1067	<input type="checkbox"/>	144	3660
<input type="checkbox"/>	48	1220			
<input type="checkbox"/>	Custom length (indicate length in inches): _____				

PHOTOMETRIC DATA - 3500K

L3

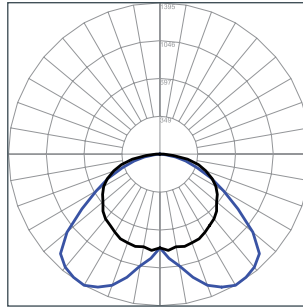
File Name: A4P-2L35K-4-NN-L3
Luminaire Lumens: 4456
Total Watts: 48
Efficacy: 91.6 lms/W
Optics Up: None
Optics Down: None

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method
 Effective Floor Cavity Reflectance = .20

RC	80				70				50			
	70	50	30	10	70	50	30	10	50	30	10	
RCR												
0	119	119	119	119	116	116	116	116	111	111	111	111
1	108	103	98	94	105	100	96	92	96	92	89	89
2	97	88	81	75	94	86	80	74	83	77	72	72
3	88	77	68	61	85	75	67	60	72	65	59	59
4	80	67	58	51	77	66	57	50	63	55	49	49
5	73	59	50	43	71	58	49	43	56	48	42	42
6	67	53	43	37	65	52	43	36	50	42	36	36
7	62	48	38	32	60	47	38	32	45	37	31	31
8	57	43	34	28	56	42	34	28	41	33	28	28
9	53	39	31	25	52	39	30	25	37	30	25	25
10	50	36	28	22	48	35	27	22	34	27	22	22

PHOTOMETRIC CURVE



CANDLE DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	861.09	861.09	861.09	861.09	861.09
5	888.37	935.69	933.44	976.76	964.07
10	863.88	920.78	1002.59	1048.29	1045.73
15	879.4	946.87	1052.51	1140.32	1174.61
20	868.54	973.25	1139.57	1259.27	1283.6
25	860.31	1005.23	1196.17	1316.11	1349.22
30	830.85	998.01	1246.4	1349.76	1394.51
35	799.31	1017.54	1249.86	1346.61	1384.64
40	777.62	1026.33	1252.78	1330.82	1356.17
45	742.23	1004.97	1209.77	1286.43	1297.29
50	683.07	970.46	1158.7	1170.69	1118.28
55	646.12	919.2	1058.22	942.62	878.18
60	595.99	858.63	883.07	723.18	680.3
65	533.54	766.15	666.54	544	522.14
70	450.06	622.34	471.3	394.08	368.71
75	367.5	452.16	316.71	262.79	245.44
80	258.2	264.86	186.68	155.53	146.63
85	126.55	120.2	79.42	61.1	53.68
90	33.29	37.66	21.57	8.45	2.6

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	6583	6614	6290
55	6812	6009	4323
65	7204	4065	2693
75	7203	2157	1373
85	4788	634	339