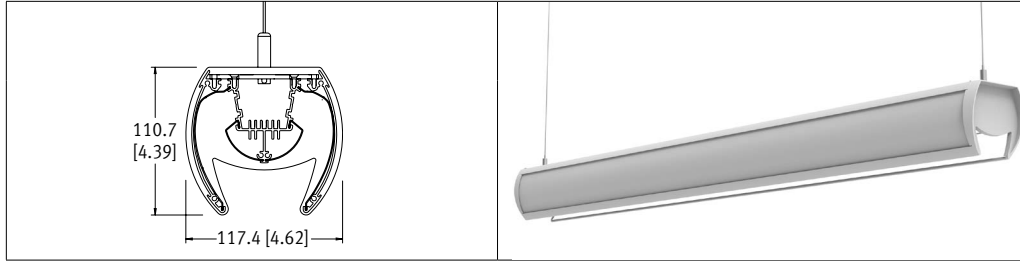


Arches A4P

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-N

Optics																			
A4P			N	N			1			N									
Series/Model	Color Temp	Length	Up	Down	Finish	LL/Driver	Circuitry	Mounting	Voltage	Control	Drive Loc.	End Cap	Options						
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	<table border="1"> <thead> <tr> <th>0-10V Dimming (Standard)</th> <th>3500k</th> </tr> </thead> <tbody> <tr> <td>L1 =</td> <td>2436</td> </tr> <tr> <td>L2 =</td> <td>3100</td> </tr> <tr> <td>L3 =</td> <td>4456</td> </tr> <tr> <td>L4 =</td> <td>8521</td> </tr> </tbody> </table> Based on 4ft sections.		0-10V Dimming (Standard)	3500k	L1 =	2436	L2 =	3100	L3 =	4456	L4 =	8521	PA = Pendant Aircraft Cable		3 = 347 V		RC = Remote Surface Canopy (Consult Factory)	
0-10V Dimming (Standard)	3500k																		
L1 =	2436																		
L2 =	3100																		
L3 =	4456																		
L4 =	8521																		
	Finish			PT = Pendant Aircraft Cable for T-Bar		4 = UNV (120 - 277 V)		End Cap Options											
Length	B = Black			SS = Solid Stem		Control		O = Open (Standard)											
2 = 2 ft	SA = Satin Aluminum			PP = Power Over Aircraft Cable *		N = None		X = Custom (Consult Factory)											
4 = 4 ft	W = White			SELECT HANGER LENGTH AND HANGER FINISH ON P.2				Options											
8 = 8 ft	C = Custom Finish Specify RAL#:							90 = 90 CRI											
R = Continuous Rows (Consult factory)	Side Decals are optional. See p.2 for Side Decal Info							N = None											

* 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: MetaLED mid-flux LED technology transmits to internal smooth, high performance reflectors. Open luminaire, no lens design.
CRI: 83+ for 3500K, 80 minimum for all CCTs

in standard configurations.
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.
Controls: Not available.
Lutron Driver Options: Consult factory for Lutron LED driver options:
 • LHE H-Series Hi-lume 1% EcoSystem

- LAE A-Series Hi-lume 1% EcoSystem
 - LA2 A-Series Hi-lume 1% 2-wire
 - L5E 5-Series EcoSystem
- 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

Lumen Adjustment Factor		
Color Temp	80 CRI	90 CRI
3000K	0.984	0.873
3500K	1.000	0.875
4000K	1.032	0.879

APPROVALS Signature _____

Date _____

FILE NAME: A4P_LED_P_SPEC_SHEET_20190215

570 Southgate Drive, Guelph, Ontario N1G 4P6
 Mailing Address: P.O. Box 1779 Guelph, Ontario, N1H 6Z9

1.800.621.6785 | T 519.822.4381 | F 519.822.4589
www.metalumen.com

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
<input type="checkbox"/>	15	380	<input type="checkbox"/>	36
<input type="checkbox"/>	18	460	<input type="checkbox"/>	39
<input type="checkbox"/>	21	533	<input type="checkbox"/>	42
<input type="checkbox"/>	24	610	<input type="checkbox"/>	45
<input type="checkbox"/>	27	685	<input type="checkbox"/>	48
<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
<input type="checkbox"/>	18	460	<input type="checkbox"/>	60
<input type="checkbox"/>	24	610	<input type="checkbox"/>	72
<input type="checkbox"/>	30	760	<input type="checkbox"/>	96
<input type="checkbox"/>	36	915	<input type="checkbox"/>	120
<input type="checkbox"/>	42	1067	<input type="checkbox"/>	144
<input type="checkbox"/>	48	1220		
<input type="checkbox"/>	Custom length (indicate length in inches): _____			

PHOTOMETRIC DATA - 3500K

L3

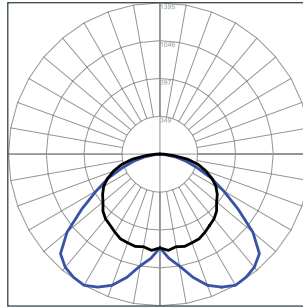
File Name: A4P-2L35K-4-NN-L3
Luminaire Lumens: 4456
Total Watts: 48
Efficacy: 91.6 lms/W
Optics Up: None
Optics Down: None

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