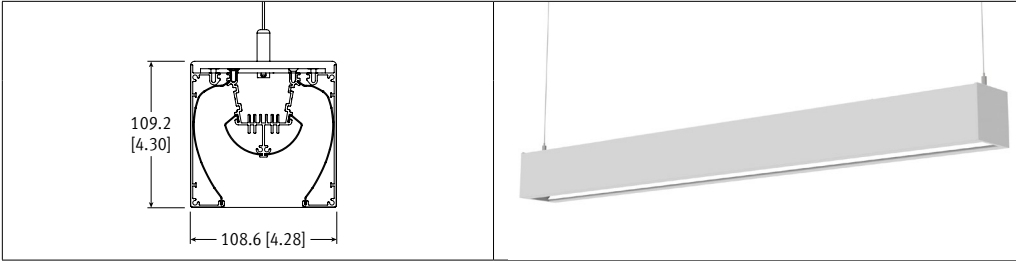


Mega M4P

LED . Pendant . Direct



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

ORDERING LOGIC

Sample part number: M4P-2L35K-4-NN-SA-L31-PA-1-NN-C

M4P		Optics		1		N															
Series/Model	Color Temp	Length	Up	Down	Finish	LL/Driver	Circuitry	Mounting	Voltage	Control	Drive Loc.	End Cap									
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	<table border="1"> <tr> <th>0-10V Dimming (Standard)</th> <th>3500k</th> </tr> <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> </table> <p>Based on 4ft sections.</p>		0-10V Dimming (Standard)	3500k	L1 =	2436	L2 =	3100	L3 =	4456	L4 =	8521	Mounting		2 = 277 V		R = Remote Driver Box			
0-10V Dimming (Standard)	3500k																				
L1 =	2436																				
L2 =	3100																				
L3 =	4456																				
L4 =	8521																				
2L40K = 4000K	N = None	<table border="1"> <tr> <th>0-10V Dimming (Standard)</th> <th>3500k</th> </tr> <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> </table> <p>Based on 4ft sections.</p>		0-10V Dimming (Standard)	3500k	L1 =	2436	L2 =	3100	L3 =	4456	L4 =	8521	PA = Pendant Aircraft Cable		3 = 347 V		RC = Remote Surface Canopy			
0-10V Dimming (Standard)	3500k																				
L1 =	2436																				
L2 =	3100																				
L3 =	4456																				
L4 =	8521																				
2LTUN = Tunable White (2700-6500K)	Finish	<table border="1"> <tr> <th>0-10V Dimming (Standard)</th> <th>3500k</th> </tr> <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> </table> <p>Based on 4ft sections.</p>		0-10V Dimming (Standard)	3500k	L1 =	2436	L2 =	3100	L3 =	4456	L4 =	8521	PT = Pendant Aircraft Cable for T-Bar		4 = UNV (120 - 277 V)		End Cap Options			
0-10V Dimming (Standard)	3500k																				
L1 =	2436																				
L2 =	3100																				
L3 =	4456																				
L4 =	8521																				
Length	B = Black	<table border="1"> <tr> <th>0-10V Dimming (Standard)</th> <th>3500k</th> </tr> <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> </table> <p>Based on 4ft sections.</p>		0-10V Dimming (Standard)	3500k	L1 =	2436	L2 =	3100	L3 =	4456	L4 =	8521	SS = Solid Stem		Control		C = Closed (Standard)			
0-10V Dimming (Standard)	3500k																				
L1 =	2436																				
L2 =	3100																				
L3 =	4456																				
L4 =	8521																				
2 = 2 ft	SA = Satin Aluminum	<table border="1"> <tr> <th>0-10V Dimming (Standard)</th> <th>3500k</th> </tr> <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> </table> <p>Based on 4ft sections.</p>		0-10V Dimming (Standard)	3500k	L1 =	2436	L2 =	3100	L3 =	4456	L4 =	8521	PP = Power Over Aircraft Cable * <i>SELECT HANGER LENGTH AND HANGER FINISH ON P.2</i>		N = None		O = Open			
0-10V Dimming (Standard)	3500k																				
L1 =	2436																				
L2 =	3100																				
L3 =	4456																				
L4 =	8521																				
4 = 4 ft	W = White	<table border="1"> <tr> <th>0-10V Dimming (Standard)</th> <th>3500k</th> </tr> <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> </table> <p>Based on 4ft sections.</p>		0-10V Dimming (Standard)	3500k	L1 =	2436	L2 =	3100	L3 =	4456	L4 =	8521					X = Custom (Consult Factory)			
0-10V Dimming (Standard)	3500k																				
L1 =	2436																				
L2 =	3100																				
L3 =	4456																				
L4 =	8521																				
8 = 8 ft	C = Custom Finish <i>Specify RAL#:</i>	<table border="1"> <tr> <th>0-10V Dimming (Standard)</th> <th>3500k</th> </tr> <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> </table> <p>Based on 4ft sections.</p>		0-10V Dimming (Standard)	3500k	L1 =	2436	L2 =	3100	L3 =	4456	L4 =	8521								
0-10V Dimming (Standard)	3500k																				
L1 =	2436																				
L2 =	3100																				
L3 =	4456																				
L4 =	8521																				
R = Continuous Rows (Consult factory)		<table border="1"> <tr> <th>0-10V Dimming (Standard)</th> <th>3500k</th> </tr> <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> </table> <p>Based on 4ft sections.</p>		0-10V Dimming (Standard)	3500k	L1 =	2436	L2 =	3100	L3 =	4456	L4 =	8521								
0-10V Dimming (Standard)	3500k																				
L1 =	2436																				
L2 =	3100																				
L3 =	4456																				
L4 =	8521																				

* Remote Mounted Driver Only

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, closed (standard) or semi-open end. Consult factory for custom end caps.
Optical System: 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.
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
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 (lm/W)	Lumen Adjustment Factor		
				Color Temp	80 CRI	90 CRI
L1	27.78	2436	87.7	3000K	0.984	0.880
L2	35.42	3100	87.5	3500K	1.000	0.875
L3	48.62	4456	91.6	4000K	1.032	0.879
L4	97.24	8521	87.6			

APPROVALS

Signature _____

Date _____

FILE NAME: M4P_LED_P_SPEC_SHEET_20191121

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



HANGER LENGTH AND FINISH

Select Hanger Length and Finish:

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)		IMPERIAL (in)	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			

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)		IMPERIAL (in)	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			

Custom length (indicate length in inches): _____

HANGER FINISH

White (Standard)

Custom Specify RAL#: _____

PHOTOMETRIC DATA - 3500K

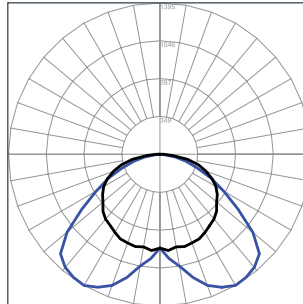
L3 File Name: M4P-2L35K-4-NN-L3
 Luminaire Lumens: 4456
 Total Watts: 48
 Efficacy: 91.6 lm/W
 Optics Up: None
 Optics Down: None

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	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