

Transform 1x4

LED . Pendant



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



ORDERING LOGIC

Example Part Number: TRA14-2L40K-4-AR-W-L51-P1-1-NR-90

TRA14			AR		1			N	R																					
Series/Model	Color Temp	Length	Optics	Finish	LL/Driver	Circuitry	Mounting	Voltage	Controls	Driver Loc.	Options																			
Color Temp	Optics	Light Level (LL)/Driver				Circuitry	Voltage	Controls																						
2L30K = 3000K	AR = AccuRay®	Fixture Lumens Light level measured at 3500K.				1 = 1 Circuit (Standard)	1 = 120 V	N = None																						
2L35K = 3500K	Finish	<table border="1"> <thead> <tr> <th>0-10V Dimming (Standard)</th> <th>Lumens Delivered</th> <th>Wattage</th> <th>Efficacy (LPW)</th> </tr> </thead> <tbody> <tr> <td>L3</td> <td>2399</td> <td>23</td> <td>104</td> </tr> <tr> <td>L4</td> <td>4639</td> <td>49</td> <td>94</td> </tr> <tr> <td>L5</td> <td>6749</td> <td>74</td> <td>91</td> </tr> <tr> <td>L6</td> <td>7679</td> <td>85</td> <td>90</td> </tr> </tbody> </table>				0-10V Dimming (Standard)	Lumens Delivered	Wattage	Efficacy (LPW)	L3	2399	23	104	L4	4639	49	94	L5	6749	74	91	L6	7679	85	90	Mounting	2 = 277 V	Driver Location		
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2L40K = 4000K	W = White	<table border="1"> <thead> <tr> <th colspan="3">Lumen Adjustment Factor</th> </tr> <tr> <th>Color Temp</th> <th>80 CRI</th> <th>90 CRI</th> </tr> </thead> <tbody> <tr> <td>3000K</td> <td>0.984</td> <td>0.873</td> </tr> <tr> <td>3500K</td> <td>1.000</td> <td>0.875</td> </tr> <tr> <td>4000K</td> <td>1.032</td> <td>0.879</td> </tr> </tbody> </table>				Lumen Adjustment Factor			Color Temp	80 CRI	90 CRI	3000K	0.984	0.873	3500K	1.000	0.875	4000K	1.032	0.879	P1 = Power Over Aircraft Cable 18"	3 = 347 V (Consult factory)	R = Remote							
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Length	C = Custom Finish Specify RAL#:					P2 = Power Over Aircraft Cable 48"	4 = UNV (120-277 V)	Options																						
4 = 4 ft						P3 = Power Over Aircraft Cable 60"		N = None																						
R = Continuous Rows (Consult factory)								90 = 90 CRI																						

SPECIFICATIONS

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

Housing: Luminaire body is constructed with 22 gauge cold rolled steel and 20 gauge aluminum, and welded seams.

Optical System: The light emitted from the MetaLED mid-flux LEDs is channeled inside Metalumen's AccuRay® optical plane where a precisely controlled micro dot matrix pattern directs, shapes and distributes the light throughout the material.

CRI: 83+ (3500K) (80 minimum)

Lumen Maintenance: At an ambient operating temperature of 25°C the LED lifetime expectancy > 72 000 hrs at L70.

Finish: The luminaire housing and associated parts are finished in highly reflective, matte powder coat white paint (91% reflectance). For custom finish, consult factory.

Mounting: A Quick-Grip field adjustable Rincon® powered suspension system by Griplock® provides for quick and easy onsite

adjustment.

Driver: Metalumen offers dimming drivers as a standard on our entire LED product offering at 0-10V. Dimming is 10%-100% range. Power factor is > 90% with a Class 2 rating.

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.

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FEATURES



COMMERCIAL // Commercial Lighting
 - With over 30 years of successful architectural lighting, providing unique concept and installation solutions has become second nature. Metalumen's Lighting Solutions have been applied to customer projects requiring: high profile architectural installations; improved energy efficiency;

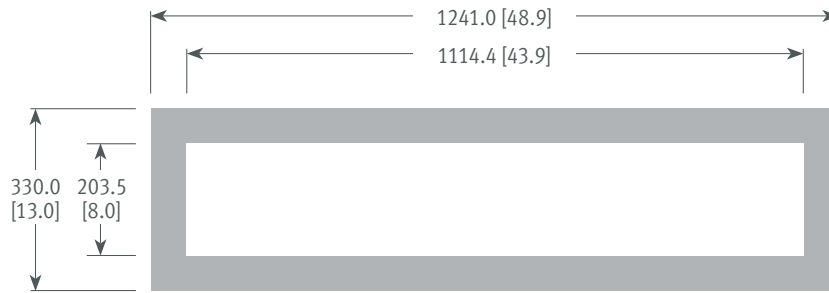
retrofit installations; unique installations. Metalumen can provide top-quality innovative fixtures when and where they are needed and, at the same time, allow the customer to determine their level of involvement in Metalumen's Start to End Development Process.



EDULUMEN // Educational Lighting
 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.

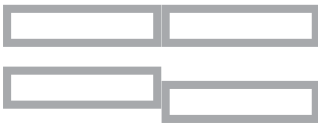
Metalumen is dedicated to creating sustainable environments that foster enhanced educational experiences.

DIMENSIONS

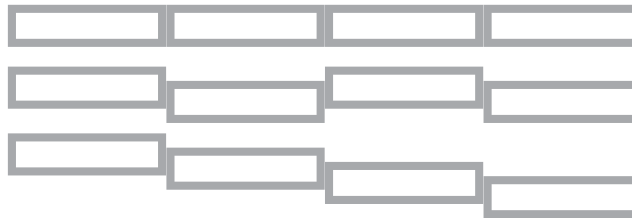


CONTINUOUS ROWS

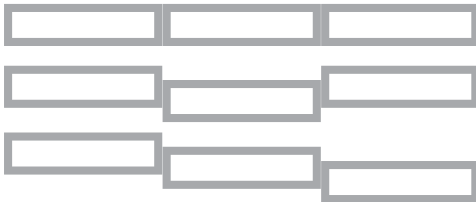
8 ft



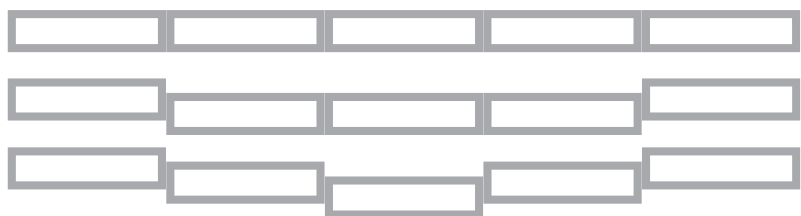
16 ft



12 ft



20 ft

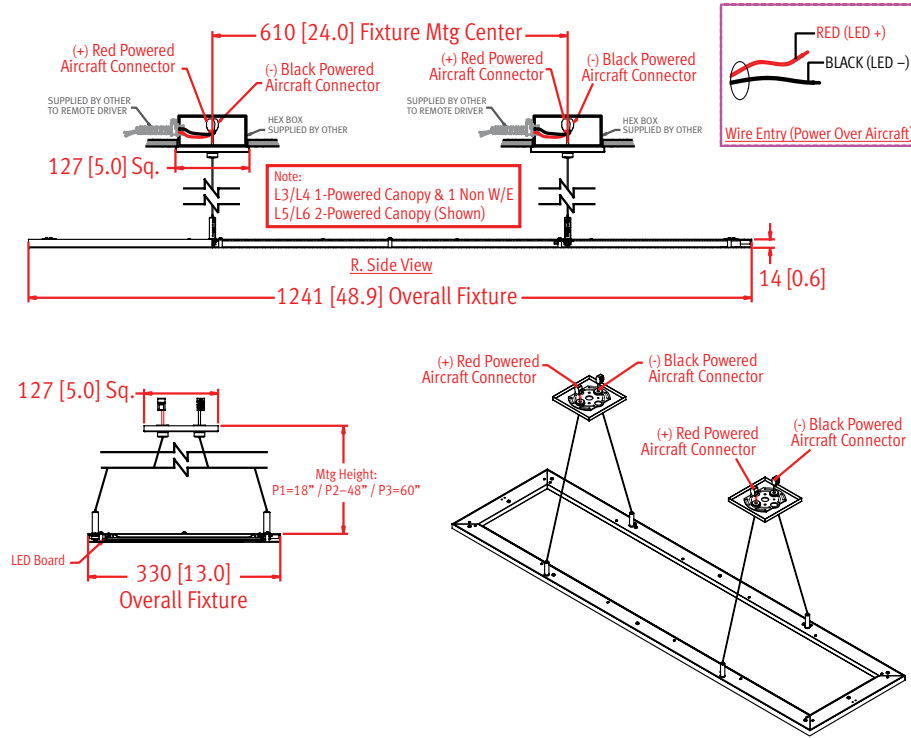


Consult factory for more configurations.

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CROSS SECTIONS

Power Over Aircraft Cable
Remote Driver



PHOTOMETRIC DATA - 3500K

File Name: TRA14-2L35K-4-AR-L5
Luminaire Lumens: 6749
Total Watts: 74
Efficacy: 91 lms/W
Optics: AccuRay®
Distribution: 54% up / 46% down

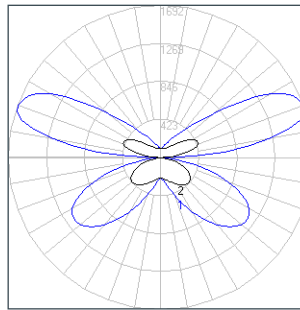
COEFFICIENTS OF UTILIZATION

Zonal Cavity Method

Effective Floor Cavity Reflectance = .20

RC	80				70				50			
	70	50	30	10	70	50	30	10	50	30	10	
RW	70	50	30	10	70	50	30	10	50	30	10	
RCR	0	106	106	106	106	97	97	97	97	81	81	81
	1	96	91	87	83	87	83	80	76	69	67	64
	2	86	78	71	65	78	71	65	60	59	54	51
	3	77	67	59	52	70	61	54	48	51	45	41
	4	70	58	49	43	63	53	45	39	44	38	33
	5	64	51	42	35	58	47	39	33	38	32	28
	6	58	45	36	30	53	41	33	28	34	28	23
	7	53	40	31	25	48	37	29	24	30	24	20
	8	49	36	28	22	44	33	25	20	27	21	17
	9	45	32	24	19	41	30	23	18	25	19	15
	10	42	29	22	17	38	27	20	15	22	17	13

PHOTOMETRIC CURVE



LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	2568	4496	6754
55	3081	5757	9030
65	3258	6413	10377
75	2542	5320	8912
85	302	1862	3170

CANDLE DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	230	230	230	230	230
5	233	236	242	250	250
10	245	253	268	290	290
15	262	279	311	359	359
20	285	314	365	451	451
25	314	354	437	569	569
30	342	394	515	704	704
35	374	440	592	839	839
40	397	477	664	977	977
45	414	503	725	1089	1089
50	417	515	753	1164	1164
55	403	503	753	1181	1181
60	368	466	710	1135	1135
65	314	397	618	1000	1000
70	239	308	483	793	793
75	150	202	314	526	526
80	66	98	158	259	259
85	6	18	37	63	63
90	0	0	0	0	0
95	121	190	331	710	710
100	259	366	630	1244	1244
105	380	495	826	1595	1595
110	443	547	912	1692	1692
115	440	559	924	1623	1623
120	395	524	823	1417	1417
125	334	429	637	1078	1078
130	257	323	481	756	756
135	188	245	358	530	530
140	165	194	269	383	383
145	142	168	220	303	303
150	122	145	185	237	237
155	116	130	156	185	185
160	110	122	136	159	159
165	102	113	119	136	136
170	102	105	110	116	116
175	99	102	102	107	107
180	96	96	96	96	96