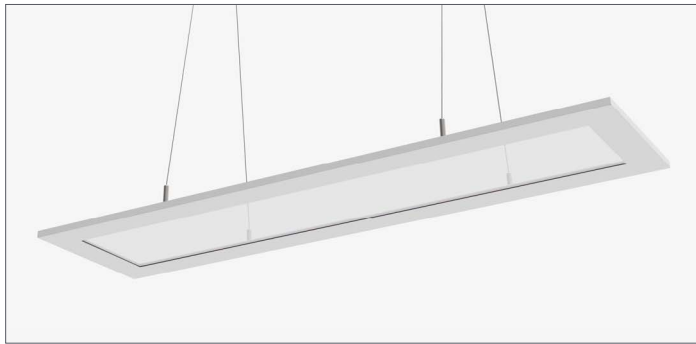


TRANSFORM TRA14

LED . PENDANT . DIRECT/INDIRECT



PART #:	
PREP BY:	DATE:
PROJECT:	
NOTES:	
APPROVAL SIGNATURE:	DATE (DD/MM/YYYY):

PERFORMANCE SUMMARY at 3500K		L3
Lumens	80 CRI	2399
	90 CRI	2099
Wattage		23
Efficacy	80 CRI	104
	90 CRI	91
L70 Estimate (h)		≥ 72,000 hrs

See page 2 for the complete Light Level Performance and 90 CRI Lumen Adjustment charts.

FEATURES

- Narrow 0.6 inch profile
- 100% concealed source for zero glare and great uniformity
- Direct/indirect batwing distribution

ORDERING LOGIC

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

TRA14			AR			1			N	R	
1	2	3	4	5	6	7	8	9	10	11	12
1. SERIES TRA14	2. COLOR TEMP 2L30K 3000K 2L35K 3500K 2L40K 4000K 90 CRI is available under OPTIONS	3. LENGTH 4 4 ft R Continuous Rows*	4. OPTICS AR AccuRay®	5. FINISH W White C Custom Finish Specify RAL:	6. LIGHT LEVEL / DRIVER L3 L4 L5 L6 Select Driver below. See Light Level Performance chart below	7. CIRCUITRY 1 1 Circuit	8. MOUNTING P1 Power Over Aircraft Cable 18" P2 Power Over Aircraft Cable 48" P3 Power Over Aircraft Cable 60"	9. VOLTAGE 1 120 V 2 277 V 3 347 V 4 UNV(120 - 277V)	10. CONTROLS / SENSORS N None	11. DRIVER LOCATION R Remote	12. OPTIONS 90 90 CRI, High R9 - None (leave space empty)

*Consult factory.

Select Driver:

- Factory option 0-10V (Standard)
- Factory option 1% dimming
- LHE** Lutron H-Series Hi-lume 1% EcoSystem LED Driver
- LA2** Lutron A-Series Hi-lume 1% 2-wire LED Driver
- L5E** Lutron 5-Series EcoSystem LED Driver

Light Level Performance 3500K, 80 CRI, 0-10V Dimming (Standard)

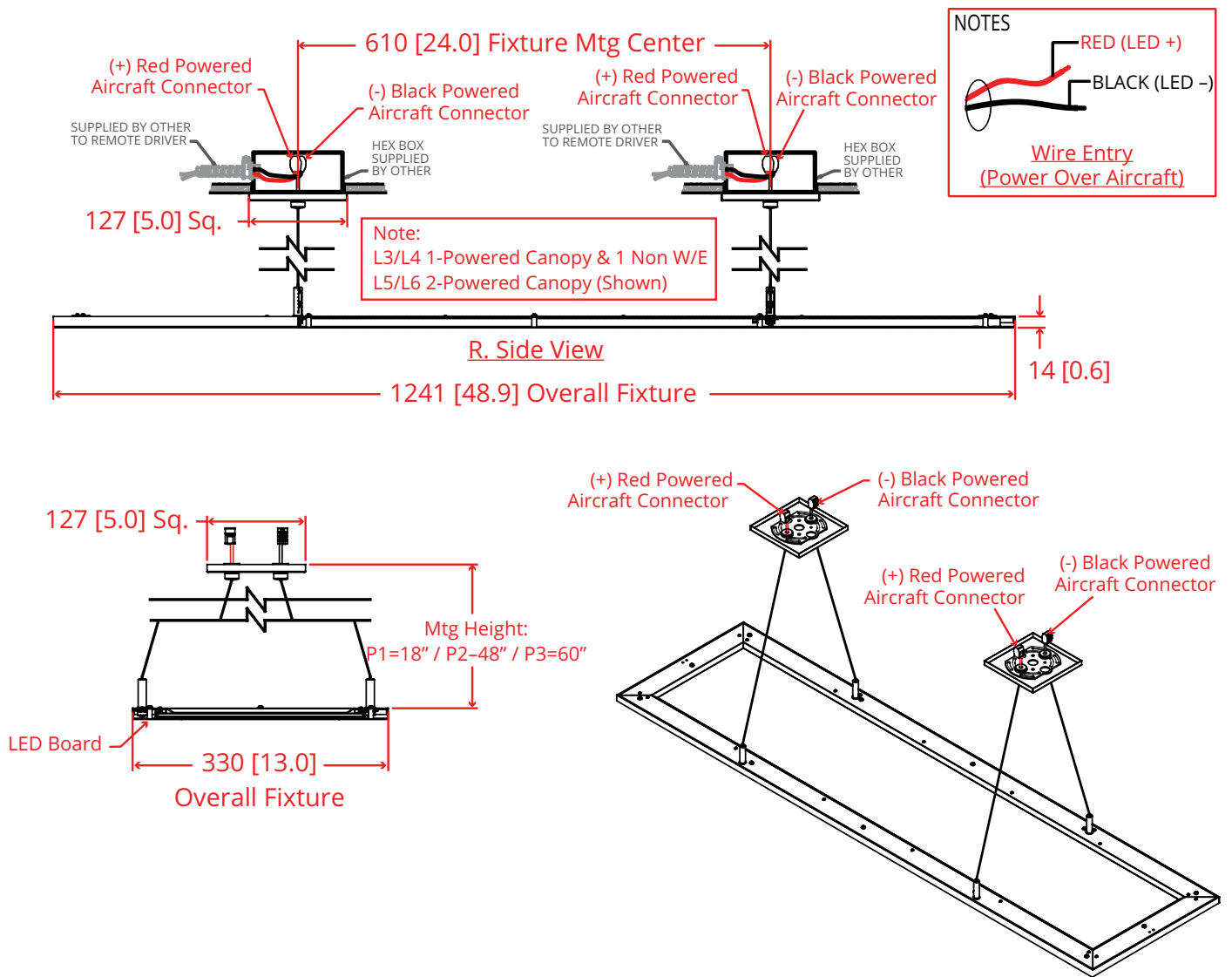
Light Level	Lumens	Wattage	Efficacy (lm/W)
L3	2399	23	104
L4	4639	49	94
L5	6749	74	91
L6	7679	85	90

Lumen Adjustment Factor

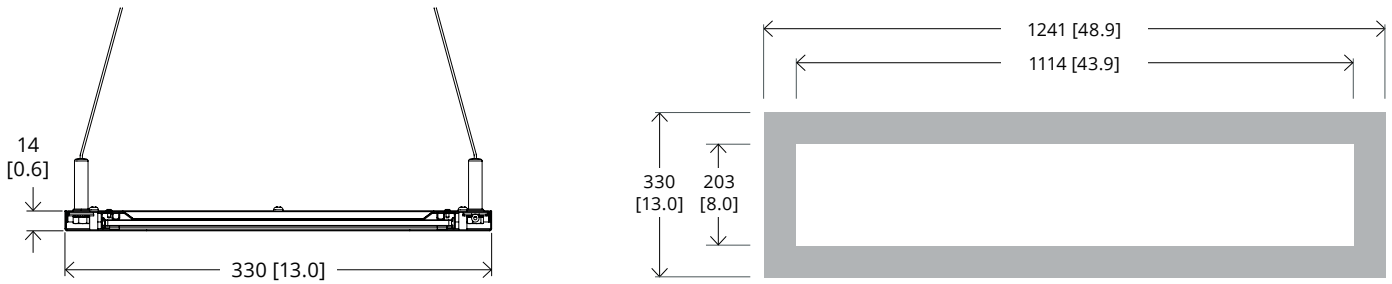
Color Temp	80 CRI	90 CRI
3000K	0.984	0.880
3500K	1.000	0.875
4000K	1.032	0.879

HANGER INFORMATION

Power Over Aircraft Cable
Remote Driver



CROSS SECTIONS & DIMENSIONS

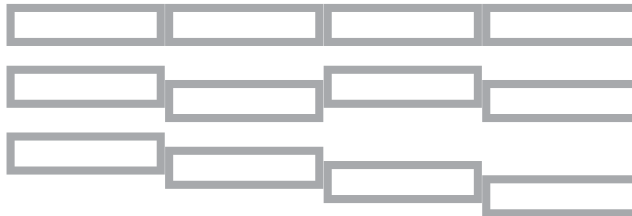


CONTINUOUS ROWS

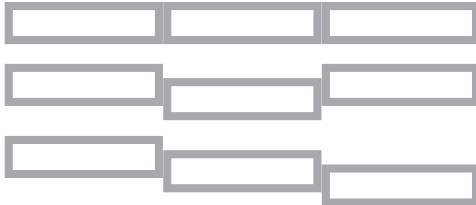
8 ft



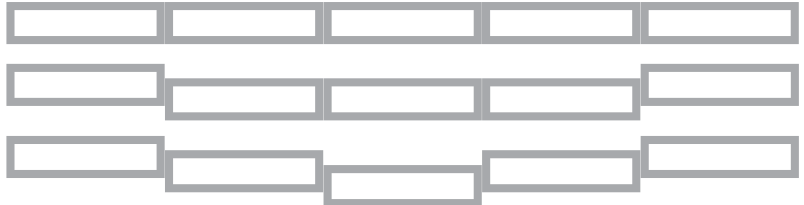
16 ft



12 ft



20 ft



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 000hrs 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.

Weight: 1.0lb/ft or 0.5kg/300mm.
Mounting: A Quick-Grip field adjustable Rincon® powered suspension system by Griplock® provides for quick and easy onsite adjustment.
Drivers: 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.
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.

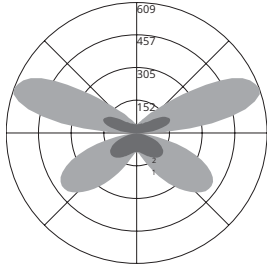
WARRANTY

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.

PHOTOMETRIC DATA - 3500K, 80 CRI

Optics: **AccuRay**
 IES File: **TRA14-2L35K-4-AR-L3**
 Lumens: **2399** Wattage: **23**
 Efficacy: **104 lm/W**

PHOTOMETRIC CURVE
 54% Up
 46% Down



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	42	1.8
0-30	118	4.9
0-40	257	10.7
0-60	718	29.9
0-80	1079	45
0-90	1101	45.9
10-90	1092	45.5
20-40	214	8.9
20-50	423	17.6
40-70	693	28.9
60-80	361	15
70-80	129	5.4
80-90	22	0.9
90-110	494	20.6
90-120	849	35.4
90-130	1080	45
90-150	1250	52.1
90-180	1298	54.1
110-180	804	33.5
0-180	2399	100

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method | Effective Floor Cavity Reflectance = .20

RC	80				70				50			
	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	40	44	38	33	
5	64	51	42	36	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	

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	955	1662	2425
55	1154	2141	3257
65	1235	2407	3756
75	983	2016	3253
85	151	704	1258

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	88	88	88	88	88
5	88	89	91	93	94
10	92	95	101	106	108
15	98	104	115	127	131
20	107	117	136	156	163
25	117	131	161	192	204
30	128	147	189	233	251
35	138	163	219	277	301
40	148	177	246	319	349
45	154	188	268	355	391
50	156	192	280	378	419
55	151	189	280	383	426
60	138	176	265	366	409
65	119	151	232	324	362
70	92	118	181	254	288
75	58	77	119	169	192
80	25	37	59	85	97
85	3	8	14	22	25
90	0	0	0	0	0
95	49	71	128	216	249
100	101	141	240	384	445
105	144	190	310	485	570
110	166	211	345	526	609
115	166	214	350	519	583
120	152	201	312	452	512
125	129	165	246	351	393
130	100	127	186	256	282
135	77	98	141	185	202
140	67	79	108	137	148
145	58	69	91	111	118
150	52	60	75	89	94
155	50	54	65	74	75
160	46	50	57	62	64
165	44	47	50	53	55
170	43	45	47	48	48
175	42	43	44	44	44
180	41	41	41	41	41