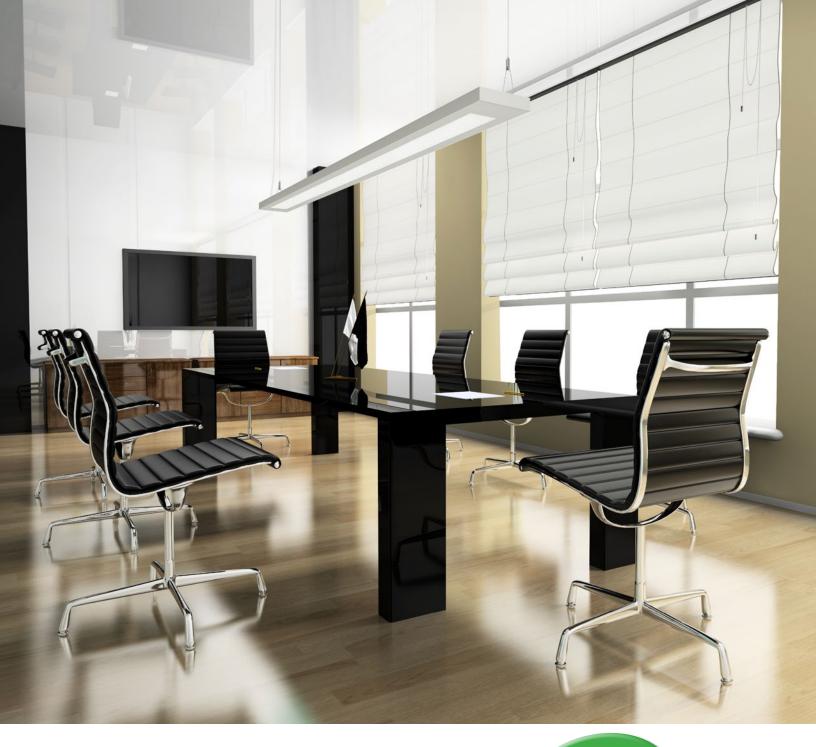


With its angular, simplified design, Stail blends harmoniously in a wide range of architectural environments.

Stail's optimized configurations support superior energy efficiencies and luminous performance. Stail has been designed to provide "best" light performance with a minimal intrusion within the architectural environment.

As a single luminaire or in continuous runs, ceiling or pendant mount, Stail emphasizes contemporary design with highly efficient optical engineering.

Stail – designed to add subtle elegance to any installation.



Up to 50% Energy Savings

4' Stail RMEP Suspended and Surface LED Light Level Outputs

Limbt Laval	Wattage	Lumens Delivered		Efficacy	(LPW)	Fluorescent	Energy	
Light Level		RMEP6	RMEP8	RMEP6	RMEP8	Equivalent	Energy Savings *	
L1	27	3064	3172	112	116	2T8/T5	48%	
L2	35	3904	4047	112	116	2T8/T5H0	36%	
L3	48	5596	5801	117	121	3T8/2T5/T5H0	50%	
L4	96	10727	11120	112	116	3T5HO	46%	
* Energy Savings based upon standard lamp/ballast combination using an equivalent RMEP series								

Suspended



DIMMING

Dimming lights by 50% = up to 40% lighting savings

(uses only 60% of the energy required)

A wide range of dimming options are available depending on sensor requirements or facility lighting control method.

0-10V control is standard.

DALI, Lutron Eco-System and others are optional.



Combination sensor for automatic ON/OFF control with ambient light sensing. If occupancy is detected within the sensor's coverage area, and if there is insufficient ambient light, the fixture will turn on. When occupancy is no longer detected and the time delay has elapsed, lighting automatically turns off. Time delay and light sensor are user adjustable.



DAYLIGHT SENSOR

Up to 20% lighting energy savings

Optional low-profile user-adjustable integrated Daylight Sensors automatically adjust lumen output as ambient light levels change.

Sensors are internally connected to 0-10V dimming



OCCUPANCY

Up to 20% lighting energy savings

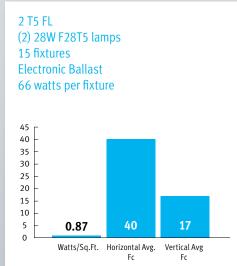
Optional low-profile integrated Occupancy Sensors automatically turn fixture ON or OFF depending on activity within the sensor area.



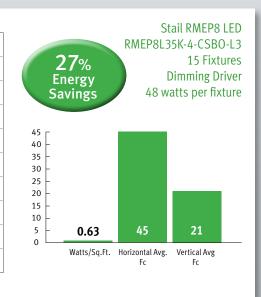


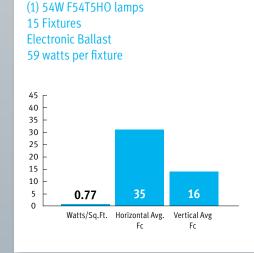
Stail LED / Fluorescent Comparison

Room Size: 26 x 44'
Ceiling Height: 10'
Work Plane: 2.5'
Reflectance: 80/50/20
of fixtures: 15



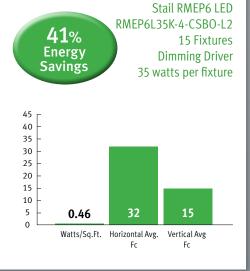
4782	Delivered Lumens	5799
66	Input Power (Watts)	48
72	Delivered lms/W	121
0.87	Watts/Sq.Ft.	0.63
40	Horizontal Avg. Fc	45
53	Horizontal Max Fc	61
16	Horizontal Min Fc	20
3.31	Max/Min	3.05
17	Vertical Avg. Fc	21
80	CRI	83





1 T5H0 FL





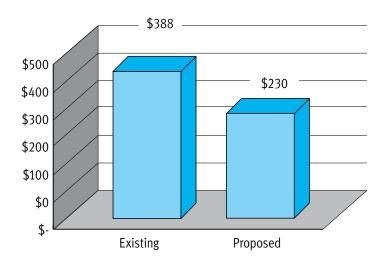
Input Output

Lighting System Energy Analysis

Customer Information	Facility Information	Facility Information			
Project Name:	Cost Per kWh Annual Operating Hours	\$ 0.120 3,650			
Company:		,			

System Information	Existing		Proposed
Luminaire Description	(1) 54W T5HO		RMEP8L35K-4-L2
Input Watts Per Luminaire	59		35
Quantity	15		15
System Watts	885		525
System kW	0.885		0.525
Annual kWh	3,230		1,916
Annual Energy Costs	\$ 388	\$	230
Monthly Costs	\$ 32	\$	19
Annual Energy Sales (\$)		\$	158
Annual Energy Savings (%)			41%
Cost of Waiting (Monthly)		\$	13

Annual Energy Costs per Lighting Systems



Note: These are estimated savings only. These annual and monthly savings are based on a number of variables and assumptions that could change over time. The actual savings derived by your firm may be higher or lower.

Input Output

Annual Maintenance Cost Estimator: 5 Year Breakdown

	· · · ·	Breakdown			
stomer Information		Facility Information			
roject Name:		Annual Operating Hours		3,650	
stem Information		Existing System	Prop	osed System	
Description of System Quantity		(1) 54W T5HO 15	RME	P8L35K-4-L2 15	
Type of Lamp Lamp Life (hrs)		Fluorescent, T8		LED 60,000	
Cost of Lamp Number of Lamps Per Fixture	\$	6.00	\$	8	
Labor Cost to Spot Relamp per Lamp	\$	10.00	\$		
Annual Lamp Maintenance Cost Quantity of Lamps Replaced Annually	\$	112.00 7	\$	(
Ballast Type	High Reactance		High Reactance		
Ballast Life (hrs)		60,000		100,000	
Cost of Ballast Number of Ballasts Per Fixture	\$	45.00 1	\$	30.00	
Labor Cost to Change a Ballast		10.00	\$	10.00	
Annual Ballast Maintenance Cost Quantity of Ballasts Replaced Annually	\$	330.00	\$		
Annual Maintenance Cost of System at Maturity	\$	442.00	\$		
Summarized 5 Year Cost	\$	2,210.00	\$		
5 Year Savings Summary 5 Year Average Annual Savings			\$ \$	2,210.00 442.00	
\$500 \$450 \$400 \$350 \$300 \$250 \$200 \$150 \$100 \$50	st	Existing Ma	Ann Mainte Savin 100	nance gs of	

LED PAYBACK (YEARS)



Payback = 1.18 Years

SYSTEM ENERGY & MAINTENANCE COST SUMMARY

	LED	Traditional		
Total Initial Fixture/ Installation Cost	\$4,320	\$3,825		
Total System kW	0.53	0.89		
Annual kWh	1,916	3,230		
Cost of Energy per kWh	\$0.120	\$0.120		
kWh Inflation Rate (%/yr)	0.00%	0.00%		
Average Annual Energy Cost	\$230	\$388		
Average Annual Maintenance Cost	\$0	\$263		
Average Annual Energy + Maintenance Costs	\$230	\$650		
Average Annual Engrave				

Average Annual Energy & Maintenace Savings \$420

	Sa	vings	Cost/Year		
	Annual Cumulative		LED	Traditional	
1st Year	\$158	\$158	\$230	\$388	
5th Year	\$333	\$1,169	\$230	\$563	
10th Year	\$420	\$3,710	\$230	\$650	

10 Year Total Savings = \$4,205 Cost
LED Traditional
\$2,300 \$6,504

+59%
Savings including
Energy & Maintenance
over 5 years

PAYBACK ANALYSIS

Average Annualized Savings Per Year

Annual Energy Savings \$158

Annual Lamp Maintenance Savings \$263

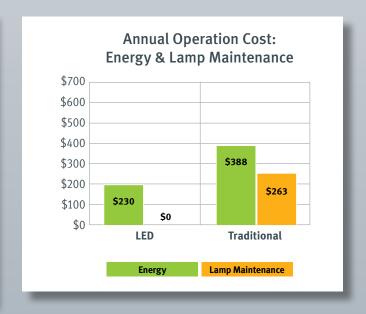
Annual Combined Savings \$420

Cost of Waiting (Monthly) \$35

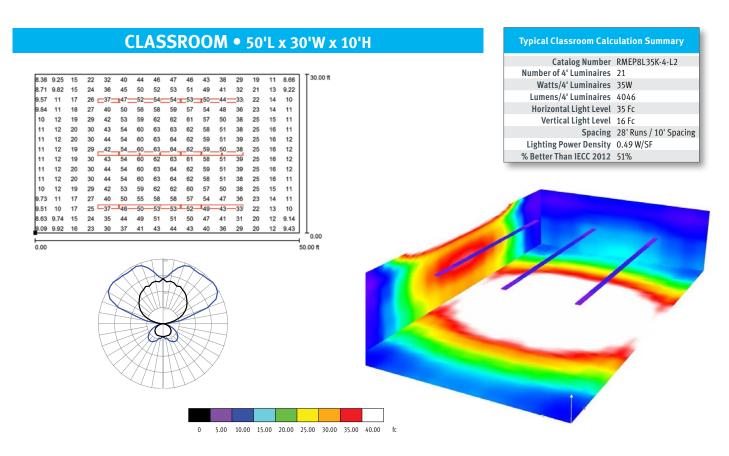
Simple Paybakc (years) 1.18

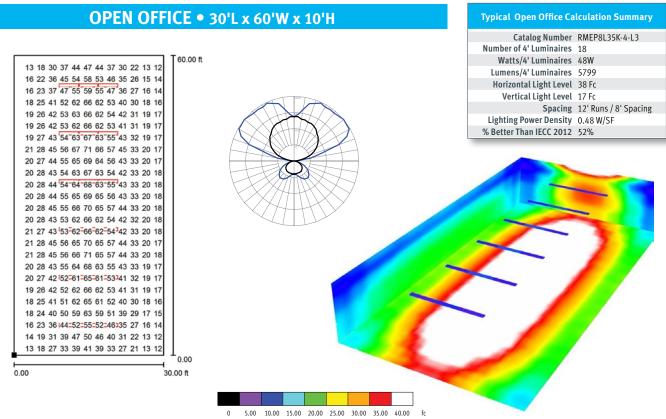
IRR (%) 85%

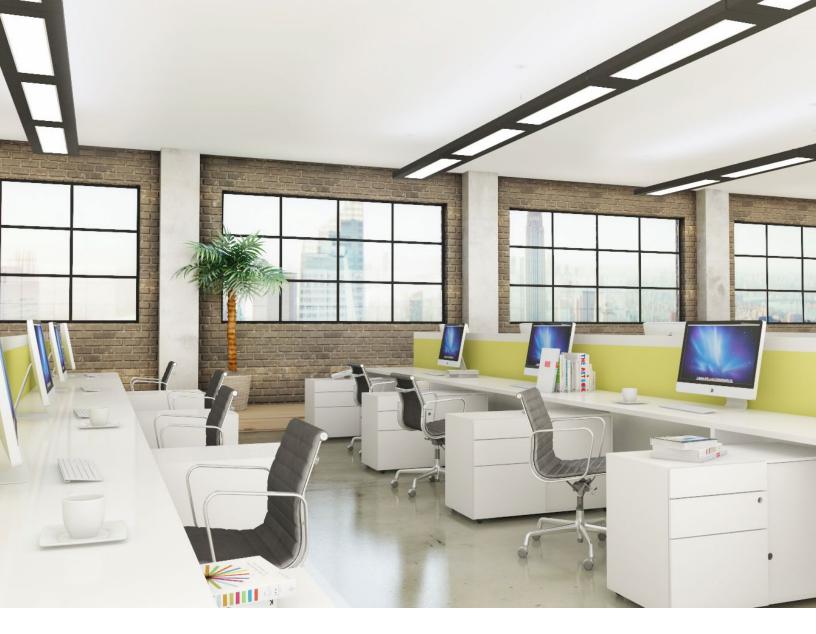
10 Year Cash Flow (Energy & Lamp Main) \$3,710



^{***} Calculation is based on actual LED fixture used in comparison to a 1-T5HO FL fixture. Assumptions are \$0.12 per KWh and 10 operating Hours/day (10h @ full power). These are estimated savings only. Annual and monthly savings are based on a number of variables and assumptions that could change over time. The actual savings derived by our firm may be higher or lower. Metalumen's business does not imply a warranty of performance or savings as calculated and shown within this document.







SPECIFICATIONS

HOUSING

Cold rolled steel body fabrication, 0.91mm (20 Ga.) wall thickness.

FINISH

Silver/grey textured powder-coat paint. For custom finish, consult factory.

MOUNTING

Aircraft cable with Quick- Grip field adjustable suspension system provides for quick and easy onsite alignment.

ELECTRICAL

Pre-wired for quick connection of individual sections and continuous runs to minimize installation time. No disassembly of the product is required.

INTEGRATED CONTROLS

Daylight, Occupancy or Daylight/ Occupancy Sensors.

ENVIRONMENT

Suitable for dry locations.

FLUORESCENT

LAMPING

T5 and T5HO

RALLAS

Programmed Rapid Start, (T5/T5H0), 0-10V Dimming, DALI

ELECTRICAL

Integral, electronic ballast for T5 lamps at 120 and 277 volts. This product can accommodate up to two (2) T5 lamps, provided by others. For multiple circuit, battery pack and emergency circuit wiring, consult factory.

APPROVALS

Certified to NRTL and IES testing standards. This product is cULus listed. RoHS compliant.

WARRANTY

Metalumen will warrant a one year parts and labour warranty. Warranty is valid if luminaire is installed and used according to specification. The Ballast will carry a standard 5 year warranty by the manufacturer.

LED

CRI

Minimum 83 CRI at 3500K

LUMEN MAINTENANCE

At an ambient operating temperature of 35° C the LED lifetime expectancy =<60 000hrs at L70.

LUMEN PACKAGES

Four Lumen Packages are available.

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.

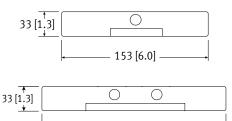
APPROVALS

Certified to NRTL and IES testing standards. All components are UL and CUL listed. RoHS compliant.LM79/LM80 compliant.

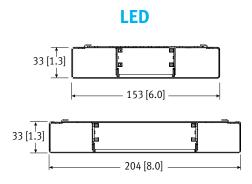
WARRANTY

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.

FLUORESCENT

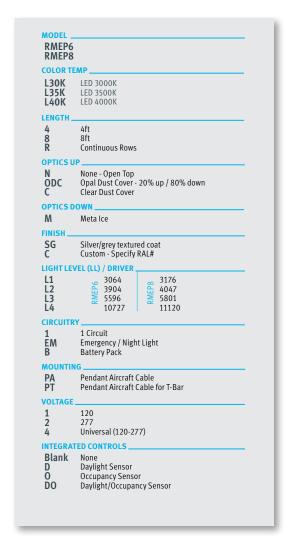


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ORDER GUIDES



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

INDIVIDUAL SECTIONS



CONTINUOUS ROWS



Consult factory for other configurations.







Stail RMEP Series

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www.metalumen.com

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Ideas brought to light