

Lighting Retrofit Assessment Checklist

Initial Assessment & Information Gathering

Collect background information and initial observations regarding current lighting systems and facility needs.

Project Goals & Objectiv		
Write something		
Building Size (sq ft)		
Enter a number		
Building Type		
Office		
Retail		
Warehouse		
Industrial		
Educational		
Healthcare		
Other		

Write something	
Current Lighting Contro	System (if any)
None	
Timer-based	
Photocell-based	
Manual Switches	
Dimmable System	
Smart Building System	
Approximate Number of	Lighting Fixtures
Enter a number	
	g Inventory & Analysis ing lighting fixtures, their types, quantities, and operating

Fixture Type
Incandescent
Fluorescent (T12)
Fluorescent (T8)
Compact Fluorescent (CFL)
Metal Halide
High Pressure Sodium (HPS)
LED
Other (Specify)
Fixture Description (e.g., model number, manufacturer)
Write something
Wattage (per fixture)
Enter a number
Number of Fixtures in Area
Enter a number
Lumens Output (estimated or manufacturer's data)
Enter a number

None Occupancy Sensor Daylight Harvesting Dimming Notes/Observations (e.g., condition, issues) Write something Energy Consumption & Cost Analysis Determine current energy usage and associated costs related to lighting. Current Total Lighting Energy Consumption (kWh/year) Enter a number Average Lighting Operating Hours per Year Enter a number Current Average Electricity Rate (\$/kWh) Enter a number Total Annual Lighting Cost (\$) Enter a number	Control Type (if applicable)	
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	Foot-candle (Lux) measurement at workstation 1	
Enter a number	Enter a number	
	Enter a number	

Foot-candle (Lux) measurement - common area
Enter a number
Lighting Uniformity - Overall Assessment
Excellent
Good
☐ Fair
Poor
Color Rendering Index (CRI) - Acceptability
Excellent (>80)
Good (70-80)
Acceptable (50-70)
Poor (<50) - Requires Attention
Observed Glare Issues?
Direct Glare
Veiled Glare
No Glare Observed
Other (Specify in Long Text)
Describe any observed issues with light distribution or visual comfort.
Write something

Overall occupant satisfaction with existing lighting (scale 1-5, 5 being most satisfied) 1 2 3 4 5
Retrofit Options & Technology Review dentify and evaluate potential lighting retrofit technologies (LEDs, controls, etc.) and their suitability.
Consideration of LED Technology? Yes No Not Sure
Potential Lighting Control Strategies? Occupancy Sensors Daylight Harvesting Dimming Controls Time Scheduling Networked Lighting Control Systems
Estimated LED Lumens per Watt (Im/W) Enter a number

Color Temperature Preference (CCT)? Warm White (2700K-3000K) Neutral White (3500K-4000K) Cool White (4000K-5000K) Custom / Other
Notes on Specific Fixture Replacement Opportunities (e.g., high bay, troffer)
Write something
Attach Fixture Datasheets (if available) L Upload File
Financial Analysis & ROI Calculation Calculate the return on investment (ROI) for various retrofit scenarios, considering costs and savings.
Estimated Project Cost (Total)
Enter a number
Current Annual Lighting Energy Consumption (kWh)
Enter a number
Current Electricity Rate (\$/kWh)
Enter a number

Estimated Annual Energy Savings (kWh)	
Enter a number	
Estimated Annual Cost Savings (\$)	
Enter a number	
Estimated Rebate/Incentive Amount (\$)	
Enter a number	
Simple Payback Period (Years)	
Enter a number	
Return on Investment (ROI) (%)	
Enter a number	
Assumptions & Notes for ROI Calculation	
Write something	

Implementation Planning & Logistics

Develop a plan for the lighting retrofit project, including scheduling, installation, and disruption management.

Planned Start Date of Retrofit
Enter date
Planned Completion Date of Retrofit
Enter date
Estimated Downtime (in hours) per area
Enter a number
Detailed Area Sequencing Plan (how areas will be retrofitted in order)
Write something
Safety Precautions Required (check all that apply) Lockout/Tagout Procedures
Fall Protection
Dust Control
☐ Noise Mitigation
Traffic Control
Waste Disposal Method
Recycling
Landfill
Specialized Lighting Waste Disposal

Detailed Retrofit Layout Drawings Dost-Retrofit Verification & Commissioning Post-Retrofit project meets performance goals and ensure proper functionality. Measured Lighting Levels (Foot-Candles) Enter a number Color Temperature Consistency? Consistent		
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Enter a number Color Temperature Consistency?	erify that the retrofit project meets performance goals and ensure proper for the control of the	unctionality.
Color Temperature Consistency?	Measured Lighting Levels (Foot-Candles)	
	Enter a number	
Consistent	Color Temperature Consistency?	
	Consistent	
Slight Variation		
Significant Variation	Significant Variation	
Control System Functionality Verified?	Control System Functionality Verified?	
Yes - Fully Functional		
Yes - Minor Adjustments Needed		
	Yes - Fully Functional	

Notes on observed issues or deviations from expected performance.	
Write something	
)
Date of Commissioning Completion	
Enter date	
Post-Retrofit Energy Consumption (kWh)	
Enter a number	
Occupant Feedback Received?	
☐ Yes ☐ No	
Post-Retrofit Photos/Videos	
♣ Upload File	