COVID-19 Effects on Electrical Construction Report

May 15, 2020
Report: Lutron & ELECTRICAL CONTRACTOR Study

Report Date: May 15, 2020

Purpose: The study focuses on the pending recovery from COVID-19 shutdowns and determine what electrical contractors need to get back to work. The survey covered current conditions on projects, change in project categories, hands-free lighting controls, the effect of COVID-19 on current workforce, what is needed to get back to full capacity, foreseeable challenges, the effect on supply chain, and expectations for reopening.

Methodology: The survey was conducted between May 6th, 2020 and May 13th, 2020. The data was collected through an online survey directed through the ELECTRICAL CONTRACTOR magazine subscriber database. The database is made up of electrical contractors who subscribe to ELECTRICAL CONTRACTOR. A total of 507 responses were collected with a 94% response rate. An incentive for participation was offered. The first 100 responses would receive a Lutron product.

Survey Questions and Design: Lutron Electronics Co. and ELECTRICAL CONTRACTOR magazine partnered together to formulate the survey questions and design.

Prepared By: The survey was prepared and analyzed by NECA research. Identity of respondents is kept separate from the survey responses and reported in total to maintain confidentiality.

Appendix: Includes all comments where questions included “Other” or “Something else”. For Q17 and Q21 all free responses are included. Please note due to content some responses have been screened for publishing purposes. Survey outline is included, as well, as skip logic steps.

Detailed Findings

Only 7.3% reported all projects have ceased. Over half of the respondents reported that they are continuing to work on projects and job sites with no notable changes (14.6%) or some constraints (40.24%).

<p>| Q1: Are you currently continuing to work on projects and job sites? (N=507) |
|---------------------------|-----------------|----------------|-----------------|----------------|----------------|</p>
<table>
<thead>
<tr>
<th></th>
<th>Yes, with no notable changes</th>
<th>Yes, with some constraints</th>
<th>Mostly, with several constraints</th>
<th>Some projects have continued, but many have ceased</th>
<th>All projects have ceased</th>
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<tbody>
<tr>
<td>Percentage</td>
<td>14.60%</td>
<td>40.24%</td>
<td>23.87%</td>
<td>7.30%</td>
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[Chart adds up to more than 100% due to rounding.]
Over half (55%) have not experienced any unanticipated business opportunities as a result of COVID-19. However, 6% reported a lot, while 39% report some unanticipated business opportunities.

For those who have experienced a lot (6%) or some (39%) unanticipated business opportunities in question 2, we asked them to select which project categories are experiencing an uptick. Over half (51.98%) of the panelists indicate an uptick in residential. Followed by outdoor projects (31.19%), offices (24.26%), and hospitals (22.28%). Higher education (6.93%) had the least amount of uptick.
Over two-thirds (65%) indicated that they are not taking on projects now that they wouldn’t have accepted before COVID-19. However, a quarter (25%) indicated that they are taking on new types of projects.
For those that selected yes (25%) to taking on projects now that they wouldn’t have accepted before COVID-19, we asked them what concerns they have doing so. About one third (34.65%) indicated lack of labor as a concern, while 32.28% indicated no concerns. Those who selected “other” reported concerns about lower profit margins when taking on new types of projects (most notably residential projects).

[Percentages add to more than 100% because more than one response was allowed.]
Before COVID-19 only 8.94% were asked to provide hands-free or touchless options for lighting controls all the time. Nearly half were asked rarely (32.13%) or never (12.77%) to provide hands-free or touchless options for lighting controls before COVID-19.

[Chart adds up to more than 100% due to rounding.]

Compared to the previous question, now during COVID-19, 15.11% are being asked to provide hands-free or touchless options for lighting controls all the time. Notably, those who chose rarely in the previous question has been nearly cut in half (18.94%).
Over two thirds of the panelists indicated extremely concerned (19.79%) or concerned (54.89%) about working in a crowded space with other contractors/laborers. Less than a quarter (23.62%) indicated not concerned at all.

Panelists selected planning for the future (63.60%), looking at new markets, sources of income, and services to add to my firm’s offerings (59.21%), and reading up on my industry (56.80%) as the top activities while they are waiting for the economy to get back to normal. Those who selected “other” a majority reported business as usual.
Over half of the panelists indicated layoffs (24.31%) or furloughs (34.12%) as the effects of COVID-19 on their workforce. However, 44.56% indicated COVID-19 had no effect on their workforce.

Q9: Are you doing any of these activities while you are waiting for the economy to get back to normal? Please select all that apply. (N=456)

[Percentages add to more than 100% because more than one response was allowed.]

Q10: What has been the effect of COVID-19 on your workforce? Please select all that apply. (N=469)

[Percentages add to more than 100% because more than one response was allowed.]
Over half of panelists indicated 0-3 weeks (56.17%) as when they expect to get back to a fully staffed workforce (as before the COVID-19 crisis) after restrictions are lifted. Those who selected “other,” a majority reported that their staff never decreased.

In order to be able to get back to full capacity, panelists selected access to a supply of PPE such as face masks and gloves (48.09%) and social distancing measures to be put in place (47.87%) as the top two needs. Those who selected “other,” a majority reported that need customers and business to open back up.
Once the economy reopens, panelists indicated work backlog (38.20%) as the biggest challenge. Not enough labor (31.55%), not enough time to finish all the work (30.90%) and not enough work (30.90%) followed as the biggest challenges. Those who selected “other”, a majority reported customers lacking funds and safety for employees as the biggest challenges once the economy reopens.
A majority of panelists believe their company will stay the same size through COVID-19 and beyond (41.67%), while 32.05% believe their company will grow through COVID-19 and beyond. Only 8.12% believe their company will struggle to survive through COVID-19 and beyond.
Over half of the panelists selected knowing how to implement the latest technological tools (52.47%) as the most important skill post COVID-19. Ability to get work done with less labor (41.72%) and troubleshooting over remote connections (34.41%) followed as the most important skills post COVID-19. Those who selected “other,” a majority reported having a “new normal” revolved around safety as an important skill post COVID-19.

Q15: Which skills do you think will be most important post-COVID-19? Please select all that apply. (N=465)

- Knowing how to implement the latest technological tools: 52.47%
- Ability to get work done with less labor: 41.72%
- Troubleshooting over remote connections: 34.41%
- Knowing how to order products remotely: 28.17%
- Remote servicing: 29.46%
- Other (please specify): 5.16%
- Not sure: 20.86%

[Percentages add to more than 100% because more than one response was allowed.]

Over half of the panelists indicated some effect on the supply chain which has caused minor delays (58.72%) in terms of completing projects. Only 3.62% indicated supply chain disruption has caused projects to stop. Those who selected “other”, a majority reported that they do not see an effect on the supply chain since they themselves have ceased work.
Q17: What do you consider to be the new normal in construction? What do you expect from the reopening phase of these shutdowns? (N=347)

Over a third of comments mentioned having to institute social distancing, PPE and tighter safety measures as being a potential new normal in construction.

Panelist Demographics

Majority of panelists from this sample represented company sizes of 1-4 (34.47%) and 5-9 (21.70%).
For types of construction work, office (79.32%), residential (75.91%), and retail/restaurant (67.38%) were selected as the top three among the panelists. Those who selected “other”, a majority reported that they do senior care and retirement housing.

[Percentages add to more than 100% because more than one response was allowed.]
Q20: In which state are you located? (N=465)

The top 5 states represent among panelists were New York (44), California (43), Florida (30), Pennsylvania (29) and New Jersey (28).

Q21: Please feel free to share any additional comments. (N=54)

Additional comments reflected respondents outlook on the situation. Most of the outlooks were positive, specifically, hopeful for a bounce back of the economy and fast recovery. Some comments reflected concern on what the future will bring. Many respondents gave thanks at the end.
Appendix

Q3: During COVID-19, are you experiencing an uptick in any project categories? If so, which categories? Please select all that apply.

Other (please specify):

- Temporary power for temporary medical tents/offices for covid testing
- Religious; Law Enforcement
- CCTV camera and security installations
- Generator and home backup power needs.
- Service work
- Security Systems
- Remote access/work at home for voice and data networks
- No
- Service upgrades and panels
- No
- Been furloughed since March 23 unable to view or even read about existing conditions
- High-rise common area maintenance
- Urgency call-outs light commercial for telework.
- None
- Recreational Vehicle and off grid / overlanding automotive electrical upgrades including pure sine inverters and solar kits with storage.
- Senior Centers and Drug/Rehab facilities
- Home office & automation
- Grocery store service-related calls

Q5: If you are taking on new types of projects, what are your concerns about doing so? Please select all that apply.

Other (please specify):

- Uncertainty about the economy
- Normally don’t do residential because of payment issues.
- Smaller or more complex projects
- Health
- Lower margins
- Projects that require much more work and return less profit.
- One of our people getting sick.
- Big projects that were schedule during this pandemic has been postponed for this reason. I was supposed to used half of people to create social distant in with the crew.
- PPE Clothing and Training for employees
- Some are out of our normal types of projects
- Cost
- Pricing
Taking projects for lower margin.
Providing services that would not have been considered adequate before.
Fear of spread of virus on technicians
Expanded work
Not enough profit margin
Whether we can turn a good profit.

Q9: Are you doing any of these activities while you are waiting for the economy to get back to normal? Please select all that apply.

Other (please specify):

- Estimating more projects
- I'm spending more time working in and on my own home.
- Staying safe while learning how to adjust to the new world normal
- Retirement other businesses
- Exploring new developments related with the future procedures that will need to be implemented to continue working and creating safe environments for customers and employees.
- Trim the fat where I can
- Work as normal booked
- In house projects and building maintenance.
- Nothing is changed
- Reading the NEC and taking water class at local community college
- Preparing to work in Covid Environments
- Working
- Flight training
  - I am an apprentice instructor at night, and we just started back - (small classes)
- Working in our own shop
- Working every day
- Electric car chargers
- Business as usual
- Waiting for guidance and PPE with testing
- New erp software
- Lots of Shades and Lighting! It is our focus to grow exponentially in these categories!
- No
- Have had no change in bidding opportunities
- Na
- Looking over drawings
- Getting a lot of projects done with no interference by students and workers
- Catching up on office work
- Nothing we are not being affected by COVID-19
- Continue working on the same projects fast pace and hurry up with less folks since some are at home.
- We have to have a plan in case the Covid 19 Virus comes back.
Q11: How soon after the restrictions are lifted do you expect to get back to a fully staffed workforce (as before the COVID-19 crisis)?

Something else, please specify:

- I will retire
- I never stop working
- At this time, thanks GOD we are still working with all our staff.
- No change expected
- No layoff yet
- We are fully staffed, just doing work that we can do, but shouldn't (nothing dangerous at all)
- Nothing has changed.
- I work by myself.
- We have not changed staffing levels
- We never stopped
- We still have a full staff
- Never slowed down
- We are fully staffed now and have been the whole time.
- Self employed
- I am a small business only me and one other employee. We have been working regular hours.
- Same staff level.
- Fully staffed now
- No effect
- We are at full strength now, but after the PPP money is used, we will be furloughing.
- We are still at 100% staff
- Still full staffed all along
- We are still fully staffed
- Called our workers back last week.
- We are at full staffing
- We have not slowed down!
- Already fully staffed but looking to hire additional
- We are fully staffed
- We stayed full staff
- We are currently working at full staff
- We did not have to lay off any of our employees
- Hopefully immediately, but the economy will decide that

Q12: What would you need to be able to get back to full capacity? Please select all that apply.

Other (please specify):
- Adjust how we perform our work safely
- Capital, money this has been disastrous for my small company. I may lose it all including my house.
- SBA grant
- Money!
Get some common sense from everyone in government. Stop making this more than it really is
Need customers to open up.
Training.
Hopefully by September this has been a bad dream.
For the economy to re-start, and people to start contracting again for construction projects.
Never stopped full capacity but had to start items checked off
Other businesses to open up so we can continue working.
Portable hand washing stations and Purell stations.
Strong economy
Get some more jobs
We already called them back.
Reschedule jobs where they canceled due to the virus outbreak.
May need to hire more technicians if we continue to be this busy
Antibody testing of employees.
General contractors to reopen their business
Awaiting for customer sites to allow access to their site
Wear masks
Never stopped working
Funding
More service work. People are concerned about having us in the house even though we have social
distancing measures in place
Washington state mandated restrictions need to be lifted.

Q13: Once the economy reopens, what will be your biggest challenges? Please select all that apply.

Other (please specify):
Capital, I need money to buy parts and to pay my employees.
retirement
Navigating the new safety measures - limits in crew size, PPE, how many total people on a floor or site

Lag time between work in progress and work to come back on line
Customers that have put things on hold would be asking to take priority in regards to their project
needs.
Maintaining a regular work flow. Expect the see a ramp up post virus orders.
I believe there will be plenty of work, however I think people will be reluctant to let us on their
property.
Keeping everyone safe and healthy.
Adjusting to new safety measures and protocols
Customers access to money to pay for the work.
I feel like I will experience a gap this fall as I’ve only been finishing up jobs not starting any new ones
now for 2 months.
Unknown
Changing facilities and homes to support the “new normal”. Fewer customer companies workers in a given room/bldg size. New work.
Working under new covid working standards
None
More traffic on the roads and higher gas prices
No challenges I can see.
Customers without discretionary income
I was minimally affected in my business because of Covid 19 because I had started to change the DNA of the business prior to the economy shut down. I now have a better electronic presence, have shifted from construction to consumer RV, and focused on a very niche market.
Reduction of backlog due to Covid triggered recession
Concerned, that customers will lack capital to initiate projects.
Payments for jobs completed
Currently we are booked for about 1.5 months. But want to make sure the pipeline is full for future.
Hope offices, commercial, restaurants will make a come back.
6 months from now could be a problem
Concerns about keeping people safe from the covid19 while they are working
Population in our facilities
None of the above
Financing
Full impacts are still unknown
Customers lacking funds

Q15: Which skills do you think will be most important post-COVID-19? Please select all that apply.
Other (please specify):
We have pre Covid19 performed many functions that now align with today's orders
It’s a whole new world.
Social distancing as a norm
I will retire
Reassuring customers that we are committed to their safety
Worksite health and safety skills.
Carefully paying attention to possibilities of illness affecting your work place.
Undetermined
In house fabrication and pre-assembly
Educating...tasks may take longer and cost more for the customers
Alter product offerings that facilitate the “new normal”.
All the above
Remote meetings. Crew scheduling.
A program that communicates clearly to customers that we understand safe hygiene practices and that we adhere to them.
The same skills required prior to COVID-19
Removing fears from partners and employee, also customers
None
Fulfilling different site safety requirements and special conditions for each project/customer.
Keep doing what we are doing before & after covid-19
None of the above

Q16: Have you experienced an effect on your supply chain in terms of completing projects?

Other (please specify):

Large effect on supply of PPE for workers. Currently we have been able to work with our own stock. We are running low and in a few cases ran out.
We ceased all work. We followed Governor Newsom instructions and President Trump we all stayed home to stop the spread here in San Diego.
No effect at all
Some product that would take a couple of day to be delivered now it takes 6-14 days to deliver.
There is no supply chain at this moments, but no works either, for works to be done we need special permits for our trucks to carry materials to job sites
Increased pricing on materials
Will not know until projects restart
Lots of social distancing and in time hopefully everything gets back to normal
Still pending, impact is not confirmed for lighting fixture procurement.

Q17: What do you consider to be the new normal in construction? What do you expect from the reopening phase of these shutdowns?

None of our projects have shut down. I foresee contractors rushing jobs to completion to generate cashflow.
Physical distancing, increased sanitation. We are anticipating business to slowly come back to levels we were at pre pandemic
Small slow recovery next few years
I expect some projects delayed or scaled back. Some projects have been cancelled. We will need to keep working with PPE and distancing.
Business as usual
Tighter procedures on distancing.
I hate the term "new normal " we are in a temporary emergency phase that will pass sooner or later.
The greatest upcoming job site problems will be worker distancing.
PPE on all jobs social distancing
We will get back to normal
Access to wash stations to wash up and sanitizing alcohol
Getting laborers on staff
Social distance
I think construction will get going quickly after the shut down.
Need work
6’ spacing, masks, temporal thermometer
More Phases in projects to limit workers and expand completion date
I think it will be business as usual. Hopefully opportunity.
I truly am not sure what our new normal will be. Safety for our employees in my most important and always has been for our company. Not sure that to expect either when the reopening phase starts in our area of the State of PA. Too many uncertainties.
Performing work under new safe ways for both customers and ourselves
Better awareness of PPE in general
Things are definitely going wireless. No more touching or sharing of equipment, of anything really. No more touching bathroom light switches. All businesses will have to have sensors. Locks probably by retinal scans or voice activated. I think a lot of jobs will be replaced by automation or robotics. Driverless cars and trucks. No more handshakes no more hugs or kisses....the poor single people.
Thank God I have my beautiful wife.
New normal will be the same as before Covid19 sooner rather than later
Conscious awareness of personal hygiene and sanitation
Testing, Testing, Testing, keeping social distance when possible.
One trade working at one time
Business going bankrupt and very slow start up at best.
Wearing Face Masks and Social Distancing.
Masks, gloves, hand wash stations
Every one wanting something you have no time to do
Not sure
Hopefully just one trade on a project at a time. Otherwise who knows
Less workers and more fear of virus
I think it will all go back to the way it was before.
Tons of PPE, continue social distancing, daily health checks with stretch and flex.
Some social distancing will occur.
Hand washing stations and more trade spacing
Most notable is the market surrounding theme parks, whether their projects will return and the hotels that build around them.
Don’t have any idea
I'm not sure. It will be slow and concerning. I believe it will add labor to a project.
Long delays in getting workers to work on a large project with many trades working without knowing what the covid situation is with other workers.
PPE, social distancing.
Fewer qualified candidates
For the foreseeable future, I expect the new normal to consist of temperature checks for employees and questionnaires regarding workers travel when dealing with larger customers.
"Staggered working schedules and/or trade separation through the construction phases
No change
Not sure
I expect a slow restart and struggle for people and businesses to be confident they can spend on needed projects.
Construction in our market unchanged
Fewer people on job sites. Construction deadlines extended.
Next year
Higher implementation of smart features in homes ie: touch free
Nothing in particular, the biggest issue I have had is supply chains can't get as many goods.
Its going to be the same
Masks
Facemasks all the time.
Too soon to know. No one should assume they understand what "normal is or was. Everything in the future will be different than in the past. Let's all be careful not to confuse "normal" and "standards". Standards will need to evolve significantly post peak COVID-19 pandemic.
Slow grow
Proper sanitation procedures. The use of gloves and face masks.
Testing !!!!!
The permitting process
Awareness of people that are sick coming into a place where they can affect others that will lead to mass sharing.
More work for me as I believe many will probably drift away
A place to eat lunch!!!
People more concerned about close proximity.
Get workers
Concerns using shared tools and equipment; Temporary smaller workforce; longer lead times for ordering and receiving materials
Automation and work back logs

I really believe there will not be ANY new normal. Reopening in phases? Who is even going by the 3 phases in reopening? I am partially afraid of what is going to happen.

More distancing. More zoom virtual meetings. More application for automating to rely less on labor. Unknown; will have to ensure the customer will be able to actually have funds
Construction sites in Michigan can open tomorrow. GCs are looking for answers as to what's allowed but are opening sites with a "let's all use a commonsense approach to distancing and etc." Time will tell.
Increased coordination between trades to ensure social distancing is maintained
Lack of work
More distancing on jobs, longer material leadtimes
Social distancing & required face coverings
I expect minimal impact on operations in construction. I do foresee some impact on service and maintenance. Operations will have to include safety for both technicians and occupants. I expect this may extend well into next year.
More training, awareness.
Anticipating a decrease in construction overall, as businesses/investors will be more guarded/conservative with their capital.
Longer schedules
Having to wear mask
Social distancing
No change
Expect it to remain as it was before.
Customers that weren't prepared for any financial emergency. People who lived paycheck to paycheck.
Construction industry will lag for some time after the shutdowns. People will first have other priorities other than construction. Jobless market has to shrink first.
A lot of whining about the rules
PPE, social distance, small crews in all job sites.
Slower projects from distancing and smaller crews. Sometimes only one trade on site.
New normal - face masks and social distancing no sharing tools. Reopening initially will be an adjustment
Nothing will change in Construction. I expect people to be provided or have access to PPE
Lots
Keeping the jobsites and employees safe
Some changes in staffing
I think things will get back to normal?
I haven't seen many changes except for some cities not inspecting and some buildings being shut down to contractors
Too early to tell
Heightened awareness of site conditions
Getting reliable help
I expect people to be very cautious about letting contractors in their homes
Better coordination, more project management, PPC reinforced, social distance as possible
Current body temperature check on job sites. Disinfecting areas of work progressively. New safety protocols regarding viruses and PPE.
Don't expect noticeable changes in our industry.
Jobs will take longer and cost more than past
We work primarily in the water and wastewater and government sectors so I don't believe I am having the same experience most are. For me I expect things will maybe uptick slightly, there may be a bit more competition attempting to bid this type work for a while as well.
Social distancing
Not really sure
Masks
Lack of consumer confidence
Practicing social distancing and PPE requirements
Order on Line- Expect higher prices
Wireless and touchless switching of receptacles and switches. I expect to have a hard time with scheduling because of all the calls that will need to be filled.
Alternating work schedules for trades to lessen the amount of people working alongside each other
Hotel and resort
Better cleaning routines. New tech to keep spaced hygienic.
Will not be able to work very close to others, keep distant
PPE required and work when no one is present in facilities

Social distancing
Not many changes
Waiting on some parts. Waiting on building depts. For plan approval
Just keeping social distancing. More concerned about a year from now how the economy will be????
Face protection at all times
No changes for my industry
None
Wearing mask
I would expect to see an initial rush to satisfy the backlog of work that has grown. I felt that it will slow
down as things catch up, but largely it will go back to what it was previously.
No change
We continue with a full staff with only a few projects placed on hold
Social distancing, possibly wearing of face masks, and mandatory hand washing stations that are
actually enforced.
Will start off slow. Will be at least a year to regain past volume.
Normal is normal there is no new normal just scare tactics from media
No changes.
I believe it will start out slow with it ramping up to the end of the year. This barring any additional
break out.
Redesign of existing projects.
I would expect the safety provisions to be made permanent, but honestly I haven't seen a real
commitment to adhering to safe protocol.
Government run electrical construction
No real change
Face masks, gloves and less people per site.
The new normal will be more home based activity for the family
Slow out of the gate. Companies will ramp up but the new normal will definitely be different.
Maintaining social distancing
New normal will be virus free certification of work sites.
Ability to obtain material quickly. Reopening will take quite some time.
Slow start up depending on Covid 19
Less people on worksite and more cleanliness
Awareness of covid symptoms, need for PPE gear to be maintained on the trucks and social distancing
when needed
Might refuse jobs that require wearing a mask.
Less people on jobsites
Social distancing will be required.
Until Covid-19 is under control, testing of the workforce for symptoms will be the new norm.
Online ordering and delivery from suppliers. Limitations on the quantity of contractors on project and
longer delays on projects,
Until a vaccine is available, it will be much more difficult to complete our projects quickly and safely. I
am worried about keeping my troops safe and I am also worried about liability. Cost to operate will
increase and I expect push-back.
Lower employee densities; expanded telework capabilities; enhanced HVAC HEPA filtration and air-
exchanges.
Social distancing and constant cleaning
Less overlap of crews on job sites.
Haven't changed
I work in a very small shop I will have my helper drive separate and I am going to get a mobile hand wash station.
Fewer contractors on a large project to allow distancing
More questions and no answers
I feel everything will go back to normal. Biggest concern would be of a new surge of outbreaks. That would change everything
Wearing masks and distancing
GC's expecting original completion dates!
Social distancing will be a challenge
Practicing Safe Distancing. While We are on site and working together
Virus reemergence.
Don't know yet
Delays due to supply chain weakness
Watching to make sure there isn't a raise in infections that will cause another shut down.
PPE full time
I expect it to come slowly but get to a point of at least where it was before it happened
Who knows??
Focusing on the health of employees.
Hopefully a gradual climb back to normal-ish
More cleaning of job sites
Hopefully we get back to normal the way things were
Don't know yet
I expect work to ramp up slowly. Companies are worried about payroll not expansion or remodeling.
Loans are going to be tougher than before
Having mouth covers when working with others regardless if people are sick.
Keeping safe distance from others and frequent hand washing. More attention on working environment.
There will still be social distancing
Sanitation and social distancing on job sites
Inspection and permitting to be slow
More remote/touch-less devices to install
Not sure
Hand sanitizer, masks, and social distancing.
Sanitizing and PPE supplies for all employees
More sanitary conditions
Same o same o
Project Financing and customer demand.
Personal safety
Less workers on the site with better scheduling. Extension on contracts.
Trouble getting material, Labor shortage, access to projects
People taking things slower
Project delays
I hope things go back to normal shortly. New normal waiting for materials to show at job site and masks
Too soon to determine - future is unknown.
The new normal will include sanitation, housekeeping, signage, PPE to include masks and gloves, onsite temperature testing.
When this is over it will go back to the way it was with a few minor changes
New normal has yet to be determined. There will be more emphasis on clean germ free atmosphere, entering job sites, homes or businesses.
Honestly I don't know how this will affect construction. I would think people will have a higher awareness.
I don't think that it's not going to change much. I agree with the phasing
One trade on site at a time
Contactless communications
Schedules growing longer due to inability to stack trades, resulting in extended General Conditions and margin fade. We also are experiencing PPE costs that were not included, and lack of PPE availability for job sites, driving the manpower shortage as people are turned away without it.
Jobs have stopped people are afraid to come back to work
Cleanliness
Shortage of quality labor. Shortage of labor with social skills. Shortage of labor with high physical fitness
Longer work weeks
The Norm will be contingent upon the severity of recession/depression
Masks and Social Distancing on Jobsites. Testing of employees at jobsites. New Forms to include Contact Tracing Guidelines
Less crowded work place. Projects taking a bit longer to complete.
I believe things will slowly go back to the way they were pre-COVID in the construction sector.
Honestly, I haven't noticed a huge change, but I mostly work on small to medium projects. Most of the GCs I work with were already staggering schedules before covid, in order to keep us from being in each others way. I imagine large projects are going to be more noticeably affected.
Full PPE and social spacing moving into the future. Caution requiring further employee coaching
I don't think anything needs to change. It all depends on politics.
Mainly less crowded job sites which will make work more efficient
Customers concerned about who is entering their property.
More of a use of PPE, more social distancing for the beginning
More hands free systems
There will be more PPE used and hand cleaning stations will be much more prevalent
Labor nervous about covid 19
Social distancing. Less workforce in a specific area. Higher level of intentional clean up and monitoring the health of employees on a site
There will be no "new normal". This is a media term introduced to keep COVID-19 in the news and panicking people.
Reduction/delay in Institutional and commercial projects, serious decline in brick & mortar retail construction & renovations
Very unsure
Projects will take longer if restrictions are enforced
Hopefully we simply return to business as usual.
Longer construction projections
Face masks will always be voluntary PPE now.
Covid19 PPE use and precautions on all jobsites
Wearing a mask and having wash stations on site
More access control, automation and remote work infrastructure
No idea
PPE masks and gloves will be mandatory.
Face masks and daily COVID-19 safety meetings
The new normal will be cleaner and stricter rules on job sites. The reopening phase will include a lot of adjustments.
I believe that there will be more rules and regulations set in place as far as distancing and sanitation. Not as many companies on the job site at the same time.
Distancing, PPE and testing until a vaccine
I can see that time is going to be a factor and completing projects and getting materials
Extra PPE
Masks part of the PPE requirements along with glasses and gloves. Temperature checks before entering certain facilities
Different approach as a whole to manpower on sites. Slower progress, more man hours
Continued social distancing
We will have to wait and see
Social distancing of all customers, no more hand shakes.
Social distancing and slower progress
Less labor force on projects
Few men on the job sites. Longer hours
PPE wore at all job sites.
Little change
Caution from customers
Testing, and Questioning risk assessment.
Protocols will change involving social distancing, and job site sanitation as well as remote meetings.
Social distancing
Unknown
Safety from distancing on the jobsites.
Inflation!
I think GCs should. (but not sure if they are patient enough) to give the subcontractors their specific days in on the job sites. And not pile everyone in to work on top of each other. Which this has been the norm. Also gain more respect to custom integrators and why we are so important in the building process. As much or more than the electricians and plumbers.
Distancing common practice. Additional PPE training/certification
Social distancing mostly.
PPE and distancing
New normal is being more pro-active about cleaning job sites.
Less labor, labor allotted windows to specifically perform their work, longer schedules.
PPE social distance. Remote working when possible
All will be back to normal within a year or less.
Wearing face masks all of the time on the job site.
Social distancing measures with more virtual meetings.
Social distancing. Economic up turn.
It will be BUSY
In the short run, there will be a conscious effort by all parties towards social distancing, Covid-19 PPE and a need for most work to be performed in unoccupied spaces. This could be a logistical nightmare for coordination of work and might well result in more second and third shift labor requirements.
Homeowners with concerns about our personnel in their homes
None at first. I think some projects like retail may slow down because they were the most hurt financially
Voice control
Jobsite testing and PPE applications. Employee responsible for insuring protocols are complied with.
In time we would be back to normal working conditions. I assume masks to be worn at all times. I do not know what to expect.
PPE & reduced close work
More concern for employee protection
1. I hope within 3-6 months after my state opens up completely construction is back as it was prior to COVID-19. 2. Material suppliers are back fully staffed and the supply chain is back to normal.
Stronger PPE Requirements on job sites.
None
Everyone will want it done at the same time.
Distancing
I am not really sure, as there is a wide range of speculation. I do find that most men in the construction field, as long as they aren't working shoulder to shoulder, do not feel a need for protection. But, it will only take one person getting sick to start more precautions. I think there will be a lot of ups/downs, starts/stops as time moves forward. As an employer, I feel responsible for my employees, but not really sure how responsible they expect to be.
Masks
Face masks added to standard PPE requirements.
Smaller teams, less overcrowding
Wearing Masks and Gloves all the time
PPE in force going forward
More concern in the control of virus spread
Longer times to complete projects, counter pickup discouraged from suppliers maybe they will offer curbside or reduced delivery. More PPE and guidelines for safety. I expect the reopening to have a large amount of backlog work to get caught up while companies and workers may begin to change shifts to 4 days per week 10hrs a day to relieve stress.
Social distancing
Social distancing
Projects will take longer.
People will be more careful about how many people in the space
Non contact arrival, no hand shaking
If the economy tanks I expect things to be pretty slow. But I do not expect any changes from the virus itself. I believe it will get busy very quickly. I hope all the factory's will come back to the USA and we make everything here. I intend to buy Made in the USA
N95 masks to be worn, and wash hands for everyone
Smaller or lesser staffing on projects, with more preparatory work completed offsite.
Slow
No expectations
Not sure
Not following safety procedures as before.
Longer wait time for material.
Higher material and labor costs, Materials manufactured overseas harder to obtain
Slow start, managing people at job sites
Not much has changed for us
Just some delay in projects, wearing masks and practicing social distancing
Not being able to work side by side in a need to fashion. Work will be in high demand for a while
Social distancing. I expect that there is a large pent up demand and as long as the economy makes a fast recovery so will the construction industry.
I'm still waiting to find out.
I think it will be required masks for a year or two
Slow pay
Phased reopening. New distancing and sanitation, and PPE considerations.
Need to space out trades and give time for folks to get job done while not being crowded in a room
I expect that we will be busier than we already are.
P and testing
Cleaner more controlled jobsites
New normal will be working within constraints and mitigation processes.
Less close interactions with others on site.
Longer schedules, smaller crew sizes. Material supply to slowly get back up to normal
PPE equipment, social distancing, less personnel on the field
On Site Covid 19 testing and certificates.
More awareness of planning of projects and communication with labor
Construction wasn't affected too much for us. Schools were easier to work at since the children were gone. I am not sure if other business will be more frugal with their money because of re-opening or not, having been shut down for 1-2 months...
A new set of safety standards that have not been written yet
We predict more Healthcare renovations or new construction projects will be in planning soon.
Masks on, temp check, and social distancing.
I would assume we are heading into a depression
Continued fitness for duty precautions until vaccine is in place.
Construction will remain the same
Social distancing. Expectations for hygiene and cleanliness protocols
PPE being worn at all times. Amount of personnel allowed to work together. Hopefully it all works out
Covid 19 testing certificates
Slow
Most of our construction has stayed the same, some of our jobs will reopen to finish
Less people on job sites
I feel it will go back to normal
Distancing from other contactors as well as staggered schedules to minimize contact.
Less men on job sites
Slow restart to economy. We will still be slow for a few months.

Q19: What types of construction work do you do? Please select all that apply.

Other (please specify):

Multi-family
High end residential
Electrical contracting
Installation and repair
Utilities
Corrections
Mixed use - Multifamily
Lighting retrofit programs for energy savings.
Hotels
AG, Dairy, Irrigation, Power generation
Religious; law enforcement
Educational facilities
Training specialist. But I personally do side work in hopes of quitting my job. I answered the questions bases on both jobs.
Renewable energy generation and energy storage.
Commercial construction
Medical office and Dentist offices
Retail
Panel, service upgrades. Residential lighting.
Data center
Hotel
Institutional
Nursing homes
Retirement communities, assisted living and long term facilities
Aviation
High rise residential, high rise hotels, building maintenance
Apprentice instructor
Railroads
Railroad
Dental clinics
Car dealers
Industrial Cannabis installations
Non-real property electrical and solar
Medium and high voltage outdoor work as well.
Churches
Multifamily projects
Low voltage, telecom, utility
Generators
Multihousing
Senior Centers and Drug/Rehab facilities
Municipal projects
Rehab and Long Term Care facilities
High end residential in New York City.
Electrical Engineering for many clients.
Mostly maintenance with some construction/upgrades. Office, warehouses, Industrial etc.
Apartment maintenance
Solar
Retirement facilities
Condos and multifamily
Service work, some solar, telecommunications.
Cruise ships

Q20: In which state are you located?

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Q21: Please feel free to share any additional comments.

Clients are concerned that with their children home from school and older family members at risk due to age and illness, that I and my work team may bring the plague into their home. Much of my work is residential renovations and service call repair.
I hope the recovery is fast paced.
Covid-19 has changed the world we must adjust till this pandemic ends. Two very important areas is testing now followed by cure
Strange new world but we here in America will succeed and overcome this. We are all in this together.
Government needs to implement more testing. Make testing available.
I quit
I believe the economy will bounce back next year
Good job thanks
Should be interesting moving forward with all the new rules.
I'm worried that a lot of these tradespeople are not taking covid-19 seriously. Health and wellness of people should not be a political issue. We should do everything we can to protect everyone on the job site.
Thank you. Best wishes to you and our industry through this difficult time.
Thank you for providing us the opportunity to share our thoughts during this pandemic!
We have a back log of work for about two weeks and then who knows. Sales activity has slowed way down.
COVID19 has significantly affected construction in Maine. While I am optimistic that the economy will rebound after this clears up, I do think many businesses and homeowners will be thinking differently about how they spend their money. Companies that were planning to expand, are now rethinking it as they have less faith in the economy, locally and globally.
Affordable LED lights with multiple setting have increased sales for customers remodeling.
Thanks! Stay healthy!
God Bless America and all the hardworking people...
Love the Lutron products, I personally prefer them over Leviton... Send me a decal please!

Covid-19 will definitely change the way consultant companies work and operate.

New touchless devices are a great opportunity to offer! Putting my sales hat on tomorrow

Thank you!

Thanks.

Love all your products CL dimmers, Caseta etc

Covid -19 didn't kill us but we got hurt by it.

Need more options for outdoor applications, like exterior switches

I think this event will bring about huge changes in infrastructure support to everyone. Evolution further into the digital age. Power generation and storage evolution. This increased digital world needs cleaner power (not clean as in the environment but in power characteristics.

Need better supply abilities

Make America great again!

Another shut down could be bad

I feel lighting control will get stricter in the next few years

I think the term "essential" needs to be redefined

Love your products!

My read on the current work environment, has to do with not contaminating their facilities and homes we come in contact with.

May god protect us all

We will get through this stronger for having done it

We are ready to jump into the world of lighting and shading and go full steam ahead! We already have and see it as a huge opportunity in the near future!

I am most concerned that developers will postpone or cancel projects.

I love Lutron Products!

Looking forward to seeing new technology being rolled out.

Great questions to invoke thinking! I like the idea of hands-free electronics!

I have used Lutron products for the last 40 years and will continue till I retire.

Be safe!

Will need to hire new employees

It will be great when things are back to normal

Just want to get back to normal

More burden put on folks in the field while asking them to work harder with less manpower and more restrictions

Thank you!

Have a large residential wireless lighting project to quote. Need advice

Although times are tough, the construction industry as a whole seems to be sustainable and will hopefully persevere, despite the circumstances.

Thanks!

Note: Due to content some responses have been screened for publishing purposes.
Survey

* 1. Are you currently continuing to work on projects and job sites?
   - Yes, with no notable changes
   - Yes, with some constraints
   - Mostly, with several constraints
   - Some projects have continued, but many have ceased
   - All projects have ceased

* 2. Have you experienced any unanticipated business opportunities as a result of the coronavirus (COVID-19)?
   - A lot
   - Some
   - None (skip to Q4)

3. During COVID-19, are you experiencing an uptick in any project categories? If so, which categories?
   Please select all that apply.
   - Residential
   - Office
   - K-12
   - Higher Ed
   - Hospitals
   - Retail / Restaurant
   - Government / Military
   - Industrial
   - Warehouses
   - Outdoor projects
   - Other, please specify

* 4. Are you taking on projects now that you wouldn’t have accepted before COVID-19?
   - Yes
   - No (skip to Q6)
   - Not sure (skip to Q6)

5. If you are taking on new types of projects, what are your concerns about doing so? Please select all that apply.
   - Lack of expertise
   - Lack of labor
Report: Lutron & ELECTRICAL CONTRACTOR Study

- Not enough time
- Not sure
- No concerns
- Other (please specify)

*6. Before COVID-19, how often were you asked to provide hands-free or touchless options for lighting controls?
- All the time
- Sometimes
- Rarely
- Never
- Not sure

*7. Now, during COVID-19, how often are you being asked to provide hands-free or touchless options for lighting controls?
- All the time
- Sometimes
- Rarely
- Never
- Not sure

*8. How concerned are you about working in a crowded space with other contractors/laborers?
- Extremely concerned
- Concerned
- Not concerned
- Haven’t thought about it

9. Are you doing any of these activities while you are waiting for the economy to get back to normal? Please select all that apply.
- Taking online training courses
- Reading up on my industry
- Planning for the future
- Looking at new markets, sources of income, and services to add to my firm’s offerings
- Other (please specify)

10. What has been the effect of COVID-19 on your workforce? Please select all that apply.
• Layoffs
• Furloughs
• No effect
• Not sure

*11. How soon after the restrictions are lifted do you expect to get back to a fully staffed workforce (as before the COVID-19 crisis)?

• 0-3 weeks
• 1-2 months
• 3-4 months
• 5-6 months
• 7-11 months
• A year or more
• Something else, please specify

12. What would you need to be able to get back to full capacity? Please select all that apply.

• Job-site testing for COVID-19
• Access to a supply of PPE such as face masks and gloves
• Certification that shows the site is free of COVID-19 cases
• Social distancing measures to be put in place
• I had to lay off employees, so I need to do some hiring
• I have to call back furloughed employees
• None of the above
• Other (please specify)

13. Once the economy reopens, what will be your biggest challenges? Please select all that apply.

• Not enough work
• Not enough time to finish all the work
• Not enough labor
• Work backlog
• Other (please specify)

14. How do you believe COVID-19 may affect your company?

• I believe my company will grow through COVID-19 and beyond
• I believe my company will stay the same size through COVID-19 and beyond
• I believe my company will shrink a small amount through COVID-19 and beyond
• I believe my company will struggle to survive through COVID-19 and beyond
15. Which skills do you think will be most important post-COVID-19? Please select all that apply.

- Remote servicing
- Ability to get work done with less labor
- Knowing how to implement the latest technological tools
- Troubleshooting over remote connections
- Knowing how to order products remotely
- Not sure
- Other (please specify)

*16. Have you experienced an effect on your supply chain in terms of completing projects?

- No notable effect on the supply chain from suppliers and manufacturers
- Some effect on the supply chain which has caused minor delays
- Large effect on the supply chain which has caused major delays
- Supply chain disruption has caused projects to stop
- Other (please specify)

17. What do you consider to be the new normal in construction? What do you expect from the reopening phase of these shutdowns?

[Free Response]

*18. Including yourself, how many people work for your company?

- 1-4
- 5-9
- 10-19
- 20-99
- 100 or more

19. What types of construction work do you do? Please select all that apply.

- Residential
- Office
- K-12
- Higher Ed
- Hospitals
- Retail / Restaurant
- Government / Military
• Industrial
• Warehouses
• Outdoor projects
• Other (please specify)

20. In which state are you located?
[Select: State/Province]

21. Please feel free to share any additional comments.
[Free Response]