

| MARK | MANUFACTURER AND CATALOG NUMBER | LIGHTING FIXTURE SCHEDULE | | MTG. TYPE | REMARKS |
|--------------------|---|---------------------------|--|-----------------------|---|
| | | NO. | LAMPS TYPE | | |
| AA1 | COOPER (METALUX) #811CF-232-UNV-QHE4X32SINS | 4 | 1418/48-3500 F 10/1 DIM | SURFACE | ATTACH FIXTURE TO BOTTOM OF JOIST U.N.O. |
| AA2 | COOPER (METALUX) #81CF-232-UNV-QHE2X32SINS | 2 | 1418/48-3500 F 10/1 DIM | SURFACE | ATTACH FIXTURE TO BOTTOM OF JOIST U.N.O. |
| B10 | COOPER (METALUX) HBI-632-W-UNV-QHE4/2X32SH-4LBIB2LOB-UPL-U | 6 | PHILIPS LIGHTING 1318/48-3500 IF 10/1 DIM | SUSPEND 16'-0" AFF | |
| B11 | COOPER (METALUX) HBI-432-W-UNV-QHE2X32SHSC-IBOB-UPL-U | 4 | PHILIPS LIGHTING 1318/48-3500 IF 10/1 DIM | SUSPEND | MOUNT AT 16' AFF UNLESS OTHERWISE NOTED |
| C1 | COOPER (METALUX) #2GRB-332A-UNV-QHE3X32SINS | 3 | 1418/48-3500 F 10/1 DIM | CEILING GRID | |
| C8 | COOPER (METALUX) #6RB-232A-UNV-QHE2X32SINS | 2 | 1418/48-3500 F 10/1 DIM | CEILING GRID | |
| C12 | COOPER (METALUX) 2HP3GX-232S2B-UNV-QHE2X32SINS | 2 | 1418/48-3500 F 10/1 DIM | CEILING GRID | |
| CC1 | COOPER (METALUX) 2GRB-317A-UNV-QHE3X32SINS | 3 | 7TB LED/24-3500 F 10/1 | CEILING GRID | |
| D | COOPER (METALUX) #81SSF-232-UNV-QHE4X32SINS | 4 | 1418/48-3500 F 10/1 DIM | SURFACE | ATTACH FIXTURES TO STRUCTURE BETWEEN JOIST U.N.O. |
| D1 | COOPER (METALUX) #SSF-232-UNV-QHE2X32SINS | 2 | 1418/48-3500 F 10/1 DIM | SURFACE | ATTACH FIXTURES TO STRUCTURE BETWEEN JOIST U.N.O. |
| L19 | COOPER (HALO) P0615ED010-PDM6A835-61VH | - | LED'S INCLUDED | | |
| L18 | COOPER (HALO) P0620ED010-PDM6A835-61VH | - | LED'S INCLUDED | RECESSED | |
| L21 | EATON (PORTFOLIO) LDM4A2835D010TE-LAR35FL | - | LED'S INCLUDED | RECESSED | |
| M | COOPER (METALUX) 8TV12-232DR-UNV-QHE4X32SINS-WL-TH-SSL | 4 | 1418/48-3500 F 10/1 DIM | SURFACE | |
| M1 | COOPER (METALUX) VT2-232DR-UNV-QHE2X32SINS-WL-TH-SSL | 2 | 1418/48-3500 F 10/1 DIM | SURFACE | |
| M8 | COOPER (METALUX) #VT3-332DR-UNV-QHE3X32SINS-WL-M4-TH-SSL | 3 | 1418/48-3500 F 10/1 DIM | SURFACE | |
| M13 | COOPER 2VT2-LD4-3-DR-UNV-LB40-CD1-WL-TEH-U | - | LED'S INCLUDED | SURFACE | WALK-IN COOLERS/FREEZERS 4100K |
| NN13 | COOPER (LUMARK) XTOR2B-W | - | LED'S INCLUDED | SURFACE | ABOVE DOOR |
| NN13E | COOPER (LUMARK) XTOR2B-W WITH INTEGRAL 90 MINUTE EMERGENCY BATTERY | - | LED'S INCLUDED | SURFACE | ABOVE GENERATOR |
| P17 | TECH LIGHTING 700-TD-CLOP-M-W-Y-S-CF | 1 | CF3201/E/IN/835/ECO (INCLUDED) | PENDANT | APPAREL DEPT |
| P23 | COOPER (SHIPER) 845-36-PSJAC-L15/835-UNV-MB-36" | 1 | LED'S INCLUDED | PENDANT | SEATING PENDANT |
| P24 | KICHLER 43884 (DO NOT INSTALL GLASS SHIELD) | 1 | LED6S19822VIN | PENDANT | PROVIDE WITH A SATCO #S9272 8.5W/LED/23K/120V/ VINTAGE LAMP |
| P29 | BASLITE UR14/94/NC-BLC | 1 | PHILIPS LED A-SHAPE 16A21/PER/827/P/C26/DIM 6/1FB | PENDANT | SUSPEND BOTTOM OF PENDANT 8'-0" AFF |
| P30 | BASLITE W512/46/NC-BLK | 1 | PHILIPS LED A-SHAPE 16A21/PER/827/P/C26/DIM 6/1FB | PENDANT | SUSPEND BOTTOM OF PENDANT 7'-6" AFF |
| P31 | BASLITE C0518/54/NC-BLK | 1 | PHILIPS LED A-SHAPE 16A21/PER/827/P/C26/DIM 6/1FB | PENDANT | SUSPEND BOTTOM OF PENDANT 8'-0" AFF |
| P32 | BASLITE D627/94/NC-BLK | 1 | PHILIPS LED A-SHAPE 16A21/PER/827/P/C26/DIM 6/1FB | PENDANT | SUSPEND BOTTOM OF PENDANT 8'-0" AFF |
| Q3 | COOPER (METALUX) #CL-21315-EB-120V-SW-U | 2 | F1315/CW | SURFACE | UNDER CABINET |
| RR1 | COOPER (FALS SAFE) #TR15-LD4-20W-40-OPL-BZ-UNV-ED1C-CSTG | - | LED'S INCLUDED | SURFACE | EXTERIOR CANOPY |
| RX | LSI INDUSTRY XSL2-S-LED-50-SS-CW-(VOLT)-WHI | - | LED'S INCLUDED | RECESSED | EXTERIOR CANOPY |
| S7 | ENERGY FOCUS LIGHTING #LEDDL-765-NSP-15-PIS-SY & (1) DL/42 ARM (120V) | - | LED'S INCLUDED | WALL MOUNT | PROVIDE WITH CORD AND PLUG |
| TR16 | COOPER (HALO) #L806-SP-8030-AH (SILVER) | - | LED'S INCLUDED | TRACK MOUNT | |
| TR20 | COOPER (HALO) #L806-FL-8030-AH (SILVER) | - | LED'S INCLUDED | TRACK MOUNT | |
| TR24 | COOPER (HALO) L80248030AH (SILVER) | - | LED'S INCLUDED | TRACK MOUNT | BOTTOM OF TRACK + 4" OPEN WITH GRAPHIC |
| TR29 | COOPER (HALO) L80825NF9030AH (SILVER) | - | LED'S INCLUDED | TRACK MOUNT | |
| TR30 | COOPER (HALO) L80815NF9030AH (SILVER) | - | LED'S INCLUDED | TRACK MOUNT | |
| V | COOPER (METALUX) 2EP3MX-332S3B-UNV-QHE3X32SINS | 3 | PHILIPS LIGHTING 1318/48-3500 IF 10/1 DIM | SURFACE | |
| 2' TRACK | COOPER (HALO) #L850 or MB or SL (SEE NOTE 5 BELOW) | - | - | SEE REMARKS | SUSPEND @ 11'-9" AFF, BELOW FLUORESCENT LIGHT FIXTURES |
| 4' TRACK | COOPER (HALO) #L851 or MB or SL (SEE NOTE 5 BELOW) | - | - | SEE REMARKS | SUSPEND @ 11'-9" AFF, BELOW FLUORESCENT LIGHT FIXTURES |
| 8' TRACK | COOPER (HALO) #L852SL (SEE NOTE 5 BELOW) | - | - | SEE REMARKS | SUSPEND @ 11'-9" AFF, BELOW FLUORESCENT LIGHT FIXTURES |
| 12' TRACK | COOPER (HALO) #L853 or MB or SL (SEE NOTE 5 BELOW) | - | - | SEE REMARKS | SUSPEND @ 11'-9" AFF, BELOW FLUORESCENT LIGHT FIXTURES |
| POWER FEED | COOPER (HALO) #L901SL (SEE NOTE 5 BELOW) | - | - | - | - |
| JOINER | COOPER (HALO) #L908SL (SEE NOTE 5 BELOW) | - | - | - | - |
| FLEX CONNECTOR | COOPER (HALO) #L902SL (SEE NOTE 5 BELOW) | - | - | - | - |
| STRAIGHT CONNECTOR | COOPER (HALO) #L903SL (SEE NOTE 5 BELOW) | - | - | - | - |
| L CONNECTOR | COOPER (HALO) #L904SL (SEE NOTE 5 BELOW) | - | - | - | - |
| CANOPY ADAPTER | COOPER (HALO) #L1973SL (SEE NOTE 5 BELOW) | - | - | - | - |

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| V-473 OXFORD, MS - CONTACTOR SCHEDULE | | | | | | |
|---------------------------------------|------------|------------|--------------|--------------|---|-------------------------|
| CONTACTOR # | # OF POLES | AMP RATING | LINE VOLTAGE | COIL VOLTAGE | DESCRIPTION OF LOADS CONTROLLED | CONTACTOR CONTROLLED BY |
| C1 | 12 | 30A | 277 | 277 | 2/3 SALES FLOOR LIGHTS | INDOOR LLS VIA EMS |
| C2 | 12 | 30A | 277 | 277 | 1/3 SALES FLOOR LIGHTS | INDOOR LLS VIA EMS |
| C3 | 6 | 30A | 277 | 277 | 2/3 SALES FLOOR LIGHTS | INDOOR LLS VIA EMS |
| C4 | 6 | 30A | 277 | 277 | 1/3 SALES FLOOR LIGHTS | INDOOR LLS VIA EMS |
| C5 | 3 | 30A | 277 | 277 | SUSHI LIGHTS | INDOOR LLS VIA EMS |
| C6 | 3 | 30A | 277 | 277 | DELI PREP LIGHTS | INDOOR LLS VIA EMS |
| C7 | 3 | 30A | 277 | 277 | VESTIBULE LIGHTS - NORMAL | INDOOR LLS VIA EMS |
| C8 | 3 | 30A | 277 | 277 | VESTIBULE LIGHTS - EMERGENCY | INDOOR LLS VIA EMS |
| C9 | 3 | 30A | 120 | 120 | TRACK LIGHTS - SEAFOOD/BAKERY/DELI | EMS - TIMED ON/OFF |
| C10 | 3 | 30A | 120 | 120 | TRACK LIGHTS - COLLEGE PROMO | EMS - TIMED ON/OFF |
| C11 | 3 | 30A | 120 | 120 | TRACK LIGHTS - FLORAL | EMS - TIMED ON/OFF |
| C12 | 6 | 30A | 120 | 120 | TRACK LIGHTS PRODUCE | EMS - TIMED ON/OFF |
| C13 | 3 | 30A | 120 | 120 | TRACK LIGHTS - BAKERY/ MURRAY'S CHEESE | EMS - TIMED ON/OFF |
| C14 | 3 | 30A | 120 | 120 | TRACK LIGHTS - KITCHEN PLAGE/PROMO | EMS - TIMED ON/OFF |
| C15 | 3 | 30A | 277 | 277 | PERIMETER WALL WASH LIGHTS | EMS - TIMED ON/OFF |
| C16 | 3 | 30A | 277 | 277 | MURRAY CHEESE LIGHTS | EMS - TIMED ON/OFF |
| C17 | 3 | 30A | 277 | 277 | BAKERY PREP LIGHTS | EMS - TIMED ON/OFF |
| C18 | 3 | 30A | 277 | 277 | CANOPY LIGHTS - EMERGENCY | INDOOR LLS VIA EMS |
| C19 | 3 | 30A | 277 | 277 | ISLAND CASE LTS | INDOOR LLS VIA EMS |
| C20 | 3 | 30A | 277 | 277 | FRONT CANOPY LIGHTS - EMERGENCY | INDOOR LLS VIA EMS |
| C21 | 3 | 30A | 277 | 277 | FRONT EXTERIOR LIGHTS | INDOOR LLS VIA EMS |
| C22 | 3 | 30A | 277 | 277 | BACK EXTERIOR LIGHTS | INDOOR LLS VIA EMS |
| C23 | 3 | 30A | 277 | 277 | EXTERNAL KROGER SIGN -WEST | INDOOR LLS VIA EMS |
| C24 | 3 | 30A | 277 | 277 | EXTERNAL KROGER SIGN - FRONT | EMS - TIMED ON/OFF |
| C25 | 3 | 30A | 277 | 277 | EXTERNAL PHARMACY SIGN - FRONT | EMS - TIMED ON/OFF |
| C26 | 3 | 30A | 277 | 277 | SEAFOOD PREP LIGHTS | INDOOR LLS VIA EMS |
| C27 | 3 | 30A | 277 | 277 | EXTERNAL STARBUCKS SIGN | INDOOR LLS VIA EMS |
| C28 | 3 | 30A | 277 | 277 | EXTERNAL PHARMACY DRIVEWAY SIGN | INDOOR LLS VIA EMS |
| C29 | 3 | 30A | 277 | 277 | MONUMENT SIGNS | INDOOR LLS VIA EMS |
| C30 | 3 | 30A | 277 | 277 | BAKING LIGHTS - FRONT | INDOOR LLS VIA EMS |
| C31 | 3 | 30A | 277 | 277 | PARKING LIGHTS - ZONE - DRIVE | INDOOR LLS VIA EMS |
| C32 | 3 | 30A | 277 | 277 | PARKING LIGHTS - ZONE C - REAR/SIDE | INDOOR LLS VIA EMS |
| C33 | 3 | 30A | 277 | 277 | EXTERNAL PHARMACY SIGN | INDOOR LLS VIA EMS |
| C34 | 3 | 30A | 277 | 277 | EXTERNAL SIGN - CORREYS | INDOOR LLS VIA EMS |
| C35 | 3 | 30A | 277 | 277 | PARKING LIGHTS - ONE - CLUCK/EXIT ENTRY | EMS - TIMED ON/OFF |
| C36 | 3 | 30A | 120 | 120 | DECOR POINTS - SEATING | EMS - TIMED ON/OFF |
| C37 | 3 | 30A | 277 | 277 | EXTERNAL CAFE SIGN | EMS - TIMED ON/OFF |
| C38 | 3 | 30A | 277 | 277 | ROCKERY PICKUP LIGHTING | EMS - TIMED ON/OFF |
| C39 | 3 | 30A | 277 | 277 | PHARMACY LIGHTING | EMS - TIMED ON/OFF |
| C40 | 3 | 30A | 277 | 277 | SEATING LIGHTING | EMS - TIMED ON/OFF |
| C41 | 12 | 30A | 120 | 120 | VALANCE LIGHTS | EMS - TIMED ON/OFF |
| C42 | 12 | 30A | 120 | 120 | VALANCE LIGHTS | EMS - TIMED ON/OFF |
| C43 | 3 | 30A | 120 | 120 | BAKERY CASE LIGHTS | EMS - TIMED ON/OFF |
| C44 | 3 | 30A | 120 | 120 | TRACK LIGHTS - SUSHI | EMS - TIMED ON/OFF |

NOTES: SEP ESD-13 ON SHEET E5.1 FOR LIGHTING CONTACTOR WIRING DIAGRAM
CONTACTORS LOCATED IN ENCLOSURE INDICENT/ABOVE RESPECTIVE PANEL

| LIGHTING CONTROL SCHEDULE | | | | | | |
|---|--|-------------------------------|---|---------------------------------|-------------------------|--|
| NON 24 HOUR STORE (WITH SKYLIGHTS) | | | | | | |
| This example of a non-24 hour store assumes the operating hours of 6am to 10pm. Schedule to be adjusted for stocking and cleaning if appropriate. This schedule is not reflected in this drawing. | | | | | | |
| | | Effective % Reduction via EMS | by EMS (Season Adjusting) On/Off Staging | | Additional On/Off Input | |
| HA ***** | Sales Floor | 66% *** | by EMS (Season Adjusting) On/Off Staging | Indoor LLS via EMS * | | |
| | Sales Floor | 33% *** | by EMS (Season Adjusting) On/Off Staging | Indoor LLS via EMS * | | |
| | | | Contactor Off After Primary Hours 11pm/OFF-6am/ON, Individual Contactor. (and LLS/daytime) **** | | | |
| HB | Floral Task Light | 100% | Contactor Off After Primary Hours 11pm/OFF-6am/ON, Individual Contactor. (and LLS/daytime) **** | | | |
| | General Wash | 100% | Contactor Off After Primary Hours 10pm/OFF-6am/ON. | | | |
| | 'K' Fixtures (Over Islands) | 100% | Contactor Off After Primary Hours 10pm/OFF-6am/ON. | | | |
| | Filling Room Alcove | 100% | Contactor Off After Primary Hours 10pm/OFF-6am/ON. | | | |
| | Vestibule | 100% | Contactor Off After Primary Hours 10pm/OFF-6am/ON. | | | |
| | Interior Pharmacy Lights | 100% | Dept. Hrs. Individual Circuit Contactor | Override Provided in Area ***** | | |
| | Med & Seafood Prep | 100% | Dept. Hrs. Individual Circuit Contactor | Override Provided in Area ***** | | |
| | Deli Prep | 100% | Dept. Hrs. Individual Circuit Contactor | Override Provided in Area ***** | | |
| | Bakery Prep | 100% | Dept. Hrs. Individual Circuit Contactor | Override Provided in Area ***** | | |
| | Produce Prep Area | 0% (Occupancy Sensors) | Not on Contactor | | | |
| | Walk-in Coolers | 0% (Timer Switch 15 min.) | Not on Contactor | | | |
| | Manager, CRT, EDR | 0% (Wall Switch) | Not on Contactor | | | |
| | Produce and Floral Ambient | 50% | Department Contactor | | | |
| | Produce and Floral Ambient | 50% | Department Contactor | | | |
| HC | Parking (Outlying Light Fixtures) | ***** | Individual Circuit Contactor **** | | | |
| | Signage | ***** | 10pm/OFF-6am/ON, Individual Circuit Contactor. | | | |
| | Canopy (security) | ***** | 10pm/OFF-6am/ON, Individual Circuit Contactor. | | | |
| | Exterior Wall (security) | ***** | 10pm/OFF-6am/ON, Individual Circuit Contactor. | | | |
| | Exterior Pharmacy Signs | 100% | Dept. Hrs., Individual Circuit Contactor | | | |
| LC 120v | KPHR / OTC Trellis Tracks | 100% | 10pm/OFF - 6am/ON | | | |
| | Decor/Graphics | 100% | 10pm/OFF - 6am/ON | | | |
| | Other Track Lighting | 100% | 10pm/OFF - 6am/ON | | | |
| | Additional Decor Lighting per Installation | 100% | 10pm/OFF - 6am/ON | | | |
| | Refrig. Case & Dairy Cooler Door Lights | 100% | 10pm/OFF - 6am/ON***** | | | |
| HE w/generator backup | Parking (Light Fixtures Nearest Store) | ***** | 11pm/OFF - 7am/ON (and outdoor LLS) | | | |
| | Exterior Pharmacy Canopy Lighting | 100% | Dept. Hrs., Individual Circuit Contactor | | | |
| | Front canopies | ***** | 10pm/OFF-6am/ON, Individual Circuit Contactor. | | | |
| HEM w/generator backup | Interior Stand-By Lighting | 100% | Contactor | | | |
| | Interior Stand-By Lighting | 66% | Contactor | | | |
| | Interior Life Safety | 0% | Contactor | | | |
| | Exterior Life Safety ***** | 100% | Contactor | | | |
| OTHER PANELS 120v | Walk-In Freezer | 0% | | | | |
| | Service Case Lights Under Soft (not shown) | 0% | | | | |

* Both the EMS timing function and the LLS function must be satisfied before allowing lighting contactor activation.
** Two Ballast Fixtures to be Circulated to Stay On, to Maintain Light Levels as Track & Area Fixtures Cycle Off at Night.
*** Lighting reduction initiated by indoor light level sensor and schedule.
**** Lighting reduction initiated by indoor light level sensor and schedule.
***** Group similar circuit operations into multi-circuit controllers.
***** Outdoor Setback to be Approved by Local Risk Manager. Refer to Site Lighting Template.
***** Reference Krogers Switchgear Template for Lighting Life Safety Loads.
***** If the Quantity of Circuits to be controlled exceeds Panel HA capability, a similar arrangement can be provided at Panel HB.
***** Work with Department Management and Operations for Override location.
***** Does not apply for new case controls.

NOTE: LARGE PHARMACY SIGN MOUNTED ON FRONT OR SIDE OF BUILDING, THE OPEN & EXIT SIGNS LOCATED OVER THE DRIVE LANES, AND PHARMACY CANOPY LIGHTING TO BE CONTROLLED BY A CONTACTOR CONNECTED TO PANEL HC.
NOTE: IF THERE ARE TWO ENTRIES EACH WITH A "KROGER" SIGN ONLY THE MAIN SIGN NEEDS TO BE ON EMERGENCY POWER.



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| ISSUE LOG | | | |
|-----------|------|-------------|----------|
| NO. | REV. | DESCRIPTION | DATE |
| 1 | - | PERMIT SET | 12/06/18 |
| 2 | - | BID SET | 03/21/19 |
| | | | |
| | | | |
| | | | |

JOB: SCALE: 2019041 AS SHOWN SHEET NO.

E6.2.4 LIGHT FIXTURE & CONTACTOR SCHEDULE

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