

LIGHT FIXTURE SCHEDULE										
TYPE	DESCRIPTION	LAMP	# OF LAMPS	TOTAL FIXTURE WATTAGE	BALLAST/DRIVER	VOLTAGE	MANUFACTURER	MODEL	REMARKS	EXAMPLE
EX1B	CLEAR EDGE-LIT EXIT SIGN, BATTERY	LED	LED	1W	INTEGRAL LED DRIVER	UNIV	LITHONIA DUAL LITE JUNCO COOPER PHILLIPS	LRP RC 120/277 EL N LE RANE NAVILLITE SURE-LITES (CHLORIDE)	NICKEL CADMIUM BATTERY EXIT SIGN; SEE PLANS FOR FACE STYLE AND QTY 90 MINUTE OPERATION, RED LETTERS TEST SWITCH PROVIDED UL LISTED FOR DAMP LOCATIONS	
OE4M	INTERIOR/EXTERIOR EMERGENCY EGRESS (LOW PROFILE)	LED	LED	17W	INTEGRAL LED DRIVER	UNIV	HUBBELL JUNCO COOPER	DUAL LITE PGM: W APPROVED EQUAL APPROVED EQUAL	UL LISTED WET LOCATION IS CODE 100 COMPLIANT PROVIDE 90 MIN. REMOTE BATT. VERIFY FINISH WITH ARCHITECT.	
DL1	6" RECESSED LED DOWNLIGHT	LED	LED	18W	INTEGRAL LED DRIVER	UNIV	GOTHAM PATHWAY JUNCO COOPER SPECTRUM	EVO 14 6AR 15 MVOLT 6V LED 1500 INDY L6 13 35 U G2 L600P LDGA 15 15000010TE ERM6A15 8 35 6LM0 LI S566LEDG9 20W 35K MD	6" APERTURE MINIMUM 1250 LUMEN PACKAGE MINIMUM 10% DIMMING CLEAR SPECULAR	
DL2	6" RECESSED LED DOWNLIGHT	LED	LED	30W	INTEGRAL LED DRIVER	UNIV	GOTHAM PATHWAY CREE COOPER SPECTRUM	EVO 22 6AR 15 MVOLT 6V LED 2000 NR 6 20L 35K S5GC WF LDGA 20 20000010TE ERM6A15 8 35 6LM0 LI S566LEDG9 27W 35K MD	6" APERTURE 2000 LUMEN PACKAGE MINIMUM 10% DIMMING CLEAR SPECULAR	
DLC1	DECORATIVE LED CHANDALIER	LED RETROFIT WITH E26 BASE (60W EQUIVALENT)	LED	9W	N/A	120	FOSCARINI	NAVAVA 150007 10 U	VERIFY FINISHES, OPTIONS, & SUSPENSION LENGTH WITH ARCHITECT. PROVIDE LED RETROFIT LAMP THAT MEETS NAMEPLATE RATING	
OSL1	RECESSED LED STEP LIGHT	LED	LED	11W	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	UNIV	BEGA KIM CREE COOPER	33 055 X3 APPROVED EQUAL APPROVED EQUAL APPROVED EQUAL	4000K VERIFY FINISH AND COLORS WITH ARCHITECT PRIOR TO ORDERING. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.	
PLL1	PENDANT LED LINEAR	LED	LED	25W	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	277	LEDALITE FOCAL POINT CORONET COOPER LITECONTROL	2901 L A G Q XX 7(3) 2 E APPROVED EQUAL APPROVED EQUAL APPROVED EQUAL	3200 LUMEN/4FT MIN; 4000K. VERIFY FINISHES, OPTIONS, AND LENGTH WITH ARCHITECT. VERIFY SUSPENSION LENGTH WITH ARCHITECT. EM WHERE SHOWN.	
PLL2	PENDANT LED LINEAR	LED	LED	32W	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	277	LEDALITE FOCAL POINT CORONET COOPER LITECONTROL	2906 L A B Q XX 7(3) 2 E APPROVED EQUAL APPROVED EQUAL APPROVED EQUAL	5200 LUMEN/4FT MIN; 4000K. VERIFY FINISHES, OPTIONS, AND LENGTH WITH ARCHITECT. VERIFY SUSPENSION LENGTH WITH ARCHITECT. EM WHERE SHOWN.	
PLL3	PENDANT LED LINEAR	LED	LED	35W	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	277	LEDALITE FOCAL POINT CORONET COOPER LITECONTROL	2906 L A D Q XX 7(3) 2 E APPROVED EQUAL APPROVED EQUAL APPROVED EQUAL	3500 LUMEN/4FT MIN; 4000K. VERIFY FINISHES, OPTIONS, AND LENGTH WITH ARCHITECT. VERIFY SUSPENSION LENGTH WITH ARCHITECT. EM WHERE SHOWN.	
RL1	RECESSED LED LINEAR	LED	LED	46W	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	UNIV	FOSCARINI CORONET COOPER LITECONTROL	F5M4L FL 1000LF 40K 1C UNV LD1 XX WH 4FT0N APPROVED EQUAL APPROVED EQUAL APPROVED EQUAL	1000 LUMEN/FT MIN; 4000K. VERIFY FINISHES, OPTIONS, AND LENGTH WITH ARCHITECT. PROVIDE EMERGENCY BATTERY PACK WHERE SHOWN ON PLANS.	
STL1	4 FT. LED STRIP	LED	LED	40W	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	UNIV	LITHONIA COLLUMBA CREE COOPER DAY-BRITE	L27N L46 5000LM MDD MVOLT 80CRI WH LCL 4' 40 NLF U LS4 40L 40K 10V SNLED-LD4-465L-UNV-L840-CD1-U LF 4 FR 39 40 DZT	4000 MINIMUM LUMENS; 4000K LENSED	
VTL1	VOLUMETRIC LED TROFFER 2X2'	LED	LED	35W	INTEGRAL 0-10V DIMMING DRIVER	UNIV	LITHONIA LUMEN WERX EATON	2RTL2 40L E21 LP840 APPROVED EQUAL APPROVED EQUAL	0-10V DIMMING MINIMUM 4000 LUMENS 4000K	
VTL3A	VOLUMETRIC LED TROFFER 2X2'	LED	LED	35W	INTEGRAL LED DRIVER, STEP DIMMING	UNIV	LITHONIA LUMEN WERX EATON	2RTL2 40L SLD LP840 APPROVED EQUAL APPROVED EQUAL	0/50/100% DIMMING MINIMUM 4000 LUMENS 4000K	
	SPACE									

### LIGHTING SEQUENCE OF OPERATION

A COMPLETE AND OPERATIONAL LIGHTING CONTROL SYSTEM SHALL BE INSTALLED AS INTENDED ON THESE PLANS. IN THE EVENT THAT THE VERBIAGE IS IN CONFLICT OR CONTRADICTS THE REQUIREMENTS LISTED HERE, THE QUESTION SHALL BE ASKED PRIOR TO BIDDING OR THE MORE STRINGENT SHALL APPLY.

**SYSTEM DESCRIPTION:**  
LIGHTING CONTROLS ARE BASED ON INDEPENDENT OCCUPANCY / VACANCY SENSORS WITH SEPARATE LIGHTING CONTROL PANEL FOR SPECIALTY AREAS.

**OCCUPANCY SENSORS:**  
1. ALL OCCUPANCY SENSORS SHALL BE PROGRAMMED FOR AUTOMATIC ON (FULL LEVELS) AND AUTOMATIC OFF.  
2. ALL VACANCY SENSORS SHALL BE PROGRAMMED FOR MANUAL ON (FULL LEVELS) AND AUTOMATIC OFF.

**SENSOR SETTINGS:**  
A. WALL SWITCH OCCUPANCY SENSORS OFFICES: 5 MINS.  
B. MEETING/BOARD ROOM OCCUPANCY: 15 MINS.  
C. DAY ROOM OCCUPANCY: 10 MINS.  
D. WALL SWITCH OCCUPANCY SENSORS OFFICES: 5 MINS.  
E. WALL SWITCH VACANCY SENSORS SLEEPING AREA: 15 MINS.

**EXTERIOR LIGHTING CONTROL:**  
A. EXTERIOR LIGHTING CONTROL IS VIA LIGHTING CONTROL PANEL "LCP1".  
B. MANUAL SWITCHING FOR LOCAL EXTERIOR LIGHTING AREAS.

**EMERGENCY LIGHTING CONTROL:**  
A. EXTERIOR LIGHTING CONTROL IS VIA LIGHTING CONTROL PANEL "LCP1".  
B. EXTERIOR EMERGENCY LIGHTING IS VIA BACKUP BATTERY PACK AT FIXTURE. UPON LOSS OF NORMAL POWER BATTERY PACK WILL ENGAGE ON THOSE FIXTURES WITH BACKUP BATTERY PACKS.  
C. WHERE NOTED (NL), LIGHTING IS VIA "NIGHTLIGHTS", NON-SWITCHED ALWAYS "HOT". ALSO, NL FIXTURES ARE CONNECTED TO AN EMERGENCY BATTERY PACK FOR EMERGENCY LIGHTING.

### LIGHTING FIXTURE NOTES

- ALL LAMPS SHALL BE OSRAM/SYLVANIA UNLESS OTHERWISE NOTED. ALL FLUORESCENT LAMPS SHALL BE 4000K AS SPECIFIED. ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC AS SPECIFIED. SUBMITTAL SHEETS SHALL BE SUBMITTED WITH FIXTURE SUBMITTALS. FLUORESCENT LAMP AND BALLAST WARRANTY SHALL BE COMPLETED BY CONTRACTOR AND TURNED OVER TO OWNER AT END OF PROJECT.
- SUBSTITUTIONS APPROVED BY THE ENGINEER SHALL BE ACCEPTABLE PROVIDED THEY ARE EQUAL TO THE FIXTURE SPECIFIED, UNLESS OTHERWISE NOTED. THIS INCLUDES LENS, COLORS, REFLECTORS, PHOTOCHROMIC MATERIALS, FINISHES, ETC. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER WITH CUT SHEETS FOR APPROVAL. SUBSTITUTED FIXTURES SHALL BE PRICED IN THE SPECIFICATIONS. FIXTURES LISTED SEPARATELY SO THE ENGINEER AND OWNER CAN MAKE AN INFORMED DECISION.
- SEE ARCHITECTURAL REFLECTED LIGHTING PLAN FOR EXACT FIXTURE LOCATIONS.
- FIXTURES SHALL BE FIRE RATED.
- PROVIDE INTEGRAL SURGE PROTECTION ON ALL EXTERIOR LIGHTING DRIVER TYPES.
- PROVIDE LOW-TEMP (0°F MINIMUM) BALLASTS FOR ALL FIXTURES INSTALLED IN EXTERIOR LOCATIONS OR OTHER AREAS SUBJECT TO COLD WEATHER.
- SUSPEND ALL FOUR CORNERS WITH WIRE. STRUCTURE DOES NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.
- FIXTURES WITH EMERGENCY BATTERY PACKS SHALL BE SUPPLIED WITH 1100 LUMEN INVERTERS.
- MODULAR WIRELESS RELOC SYSTEMS ARE ACCEPTABLE WIRING METHOD FOR LIGHTING CIRCUITS.
- THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE.
- DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY/SCHEDULING ISSUES.
- NO SUBSTITUTIONS WILL BE ALLOWED DUE TO LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER BID.
- ALL EXPEDITED EXPENSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- FIXTURES TO BE INSTALLED IN CEILING LOCATED ON ARCHITECTURAL PLANS AS HAVING INSULATION IN CONTACT WITH CEILING SURFACE, SHALL BE IC RATED BY MANUFACTURER.
- BALLAST BY ADVANCE. UNUSUAL TRAD ARE ACCEPTABLE FOR SUBMISSION PROVIDED THEY MEET INTENDED CRITERIA AS LISTED IN THIS SCHEDULE.
- LED DRIVERS LOCATED IN UNVENTILATED SPACES SHALL BE RATED FOR 90 DEGREES F.
- PROVIDE 90 MINUTE EMERGENCY BATTERY BACK UP. EMERGENCY BACK UP SHALL BE BASED ON TYPE OF FIXTURE, LED DRIVER, BALLAST, ETC. EMERGENCY BACKUP SHALL BE DUAL INPUT FOR BOTH SWITCHING AND CHARGING. PROVIDE UNSWITCHED "HOT" FROM LOCAL CIRCUIT UNLESS OTHERWISE INDICATED ON PLANS. PROVIDE WITH INDICATOR LIGHT. INSTALL LED INDICATOR ON LIGHT FIXTURE UNLESS DECORATIVE. DECORATIVE FIXTURES SHALL HAVE INDICATOR PLACED AT LOCAL CEILING. BODINE, PHILLIPS, POWER SENTRY OR EQUAL.
- VERIFY ALL FIXTURE FINISHES, TRIM, AND COLOR OPTIONS WITH ARCHITECT PRIOR TO ORDERING.

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### LIGHT FIXTURE SCHEDULE & NOTES

DATE 4-5-2019  
PROJECT NO 16063

REVISIONS

NO	DATE	DESCRIPTION

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SEAL DATE: 04/27/19

SHEET NUMBER 8 OF 16  
OPTIMA # 17-0017

**E008**