



CLEAN ROOM LED

GCR720 (2X4) SERIES (2X2 AVAILABLE)

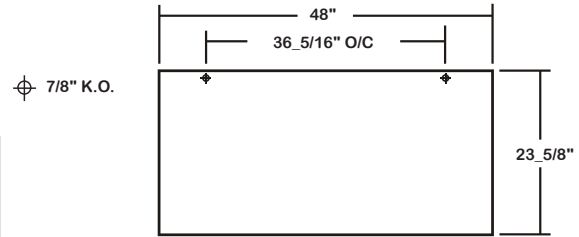
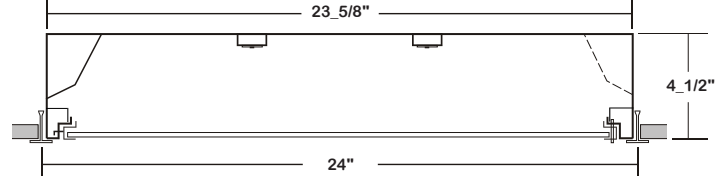
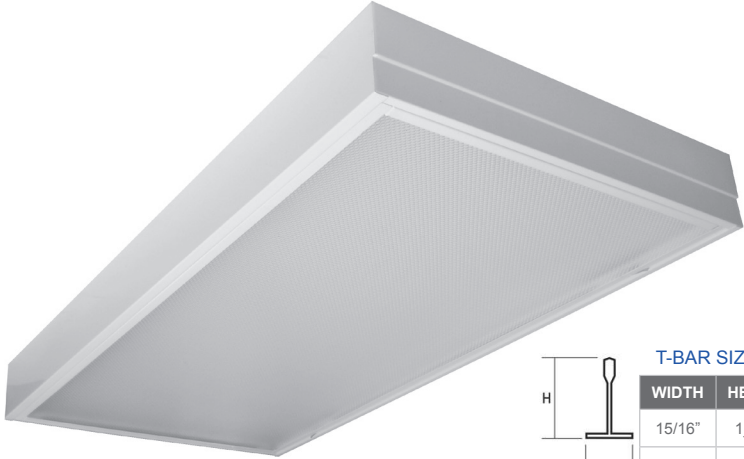
CLASS 1000/10000 CLEAN ROOM GRID LUMINAIRE

| | |
|------|--|
| JOB | |
| TYPE | |
| DATE | |

WWW.LALIGHTING.COM
626-454-8300

CLASS 1000/10000 GRID MOUNTED LED LUMINAIRE FOR 1" OR 1_1/2" WIDE INVERTED T-BAR CEILINGS

DIMENSIONS



T-BAR SIZING

| | WIDTH | HEIGHT |
|---|--------|--------|
| H | 15/16" | 1_1/2" |
| W | 1_1/2" | 1_1/2" |

APPLICATIONS

- Clean Room, Sealed Ceiling Areas, Commercial

FEATURES

- 0-10V dimming driver standard (See [DRIVER OPTIONS](#) for other dimming types)
- Supports California Title 24 compliance

OPTIONS

- Full customization available upon request
- Additional lumen packages and color temperatures available
- Controls and sensors available (See [SENSOR OPTIONS](#) for controls and sensors)
- Wireless control options available (See [SENSOR OPTIONS](#) for wireless controls)
- Variety of lenses available (See [OPTICAL OPTIONS](#) for lenses)
- Emergency battery pack available (See [BATTERY PACK OPTIONS](#) for battery pack options)
- Antimicrobial finished housing and door frame available
- Tamper proof screws available

SPECIFICATIONS

CONSTRUCTION

- Class 1000/10000 / ISO Class 6 equivalent / ISO Class 7 equivalent
- 22 ga. cold rolled steel welded housing
- All parts fitted and sealed
- 20 ga. cold rolled steel door frame secured by T-hinges and positive spring loaded latches
- Door frame sealed with neoprene gasket

FINISH

- Baked white powder coated finish / welded and painted after fabrication / minimum reflectance 90%

OPTICAL

- Inverted clear prismatic acrylic lens (nominal 0.125) standard

ELECTRICAL

- High efficiency drivers coupled with long-life LEDs
- Service life greater than 50,000 hours (L70)
- Universal voltage 120V through 277V (347V / 480V available)
- Power Factor (PF) ≥ 0.9
- Total Harmonic Distortion (THD) ≤ 20%

LISTING

- UL USA and Canada listed / suitable for damp locations

WARRANTY

- 5-year limited warranty standard, 10-year limited warranty available.



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ORDERING INFORMATION

EXAMPLE: GCR720-4-4L-FSW-PA2-TP-BPL1.5-DRDM-UNV-2/840

| SERIES | LED LUMEN PACKAGE | EFFICACY | NOMINAL LENGTH | FINISH | DOOR FRAME | OPTICAL | MECHANICAL | ELECTRICAL | DRIVER | VOLTAGE | # OF LED ROW | CRI / CCT |
|--|---|---|----------------|--|--|--|--|---|--|--|----------------------|--|
| GCR720 | | | 4L | | FSW | | | | DRDM | UNV | 2 | |
| GCR720 Class 1000 / 10000 Clean Room Grid LED Luminaire | 2 Nom. 2000 Lumens 4 Nom. 4000 Lumens 6 Nom. 6000 Lumens 8 Nom. 8000 Lumens 12 Nom. 12000 Lumens *Additional Lumen Packages Available | (Blank) Standard HE High Efficacy (Only 2000 / 4000 / 6000 / 12000 lumens Systems) | 4L 2' x 4' | AMF Antimicrobial Finished Housing and Door Frame *Leave Blank if Not Specified | FSW Flat Steel White Enamel Door Frame See DOOR FRAME for Options | PA2 Clear Prismatic Acrylic 0.125 Nominal FPA2 Frosted Prismatic Acrylic 0.125 Nominal See OPTICAL OPTIONS for Options | TP Tamper Proof Screws (Hex Socket with Post) *Leave Blank if Not Specified Additional Mechanical Options | BPL1.5 Emergency Battery Pack, Nom. 1500 lm See BATTERY PACK OPTIONS for Options MSxx Motion Sensor WLC(LED RU) Wireless Control See SENSOR OPTIONS for Options *Leave Blank if Not Specified | DRDM 0-10V Dimming Driver See DRIVER OPTIONS for Options | UNV 120V-277V See DRIVER OPTIONS for Options | 2 Two LED Rows | 830 80+CRI / 3000K Color Temp. 835 80+CRI / 3500K Color Temp. 840 80+CRI / 4000K Color Temp. 850 80+CRI / 5000K Color Temp. 8TW Tunable White 827 to 865 Additional CRI & Color Temp |

SYSTEM DATA

THESE ARE THE MOST POPULAR LUMEN PACKAGES. PLEASE CONSULT FACTORY FOR ADDITIONAL SYSTEM DATA.

| LED LUMEN PACKAGE | NORMAL AMBIENT TEMPERATURE PRODUCT CODE | DELIVERED LUMENS | SYSTEM WATTS | LUMINAIRE EFFICACY | AMBIENT TEMP. | FLUORESCENT EQUIVALENT | IES FILES |
|------------------------|---|------------------|--------------|--------------------|---------------|------------------------|------------|
| 2000 Lumens (Nominal) | GCR720-2-4L-FSW-PA2-DRDM-UNV-2/840 | 1763 lm | 15.2 W | 116.0 lm/W | -20°C / 35°C | 1-F32T8 | * |
| 4000 Lumens (Nominal) | GCR720-4-4L-FSW-PA2-DRDM-UNV-2/840 | 3447 lm | 31.3 W | 110.1 lm/W | -20°C / 35°C | 2-F32T8, 1-F54T5HO | LA-T3174-2 |
| 6000 Lumens (Nominal) | GCR720-6-4L-FSW-PA2-DRDM-UNV-2/840 | 4903 lm | 45.5 W | 107.9 lm/W | -20°C / 35°C | 3-F32T8 | LA-T3395-2 |
| 8000 Lumens (Nominal) | GCR720-8-4L-FSW-PA2-DRDM-UNV-2/840 | 6587 lm | 66.7 W | 98.8 lm/W | -20°C / 35°C | 4-F32T8, 2-F54T5HO | * |
| 10000 Lumens (Nominal) | GCR720-10-4L-FSW-PA2-DRDM-UNV-2/835 | 7690 lm | 65.34 W | 117.7 lm/W | -20°C / 35°C | 5-F32T8 | * |
| 12000 Lumens (Nominal) | GCR720-12-4L-FSW-PA2-DRDM-UNV-2/835 | 9405 lm | 81.9 W | 114.81 lm/W | -20°C / 35°C | 6-F32T8, 3-F54T5HO | * |
| 12000 Lumens (Nominal) | GCR720-12-4L-FSW-PA2-DRDM-UNV-2/840 | 9629 lm | 101.1 W | 95.3 lm/W | -20°C / 35°C | 6-F32T8, 3-F54T5HO | LA-T3237-5 |

| LED LUMEN PACKAGE | NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE | DELIVERED LUMENS | SYSTEM WATTS | LUMINAIRE EFFICACY | AMBIENT TEMP. | FLUORESCENT EQUIVALENT | IES FILES |
|------------------------|---|------------------|--------------|--------------------|---------------|------------------------|-----------|
| 2000 Lumens (Nominal) | GCR720-2HE-4L-FSW-PA2-DRDM-UNV-2/840 | 1616 lm | 12.6 W | 128.7 lm/W | -20°C / 35°C | 1-F32T8 | * |
| 4000 Lumens (Nominal) | GCR720-4HE-4L-FSW-PA2-DRDM-UNV-2/840 | 3272 lm | 25.4 W | 128.9 lm/W | -20°C / 35°C | 2-F32T8, 1-F54T5HO | * |
| 6000 Lumens (Nominal) | GCR720-6HE-4L-FSW-PA2-DRDM-UNV-2/840 | 4904 lm | 38.5 W | 127.4 lm/W | -20°C / 35°C | 3-F32T8 | * |
| 8000 Lumens (Nominal) | GCR720-8HE-4L-FSW-PA2-DRDM-UNV-2/840 | 6513 lm | 51.8 W | 125.6 lm/W | -20°C / 35°C | 4-F32T8, 2-F54T5HO | * |
| 12000 Lumens (Nominal) | GCR720-12HE-4L-FSW-PA2-DRDM-UNV-2/840 | 9663 lm | 79.3 W | 121.9 lm/W | -20°C / 35°C | 6-F32T8, 3-F54T5HO | * |

NOTE:
System data above is based on 120V input voltage.
Actual performance may differ as a result of end-user environment and application.
This fixture has been tested and listed in accordance with UL Standards. L.A. Lighting certifies that it will operate safely when installed properly, and within an ambient temperature range from -20°C to 35°C.
Additional lumen packages and color temperatures available.



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DRIVER OPTIONS

PLEASE CONSULT FACTORY TO SEE IF YOUR SELECTED DRIVER OPTION WORKS WITH THIS FIXTURE.

DRDM (TY) UNV

VOLTAGE

- 120V** 120 Volt
- 277V** 277 Volt
- UNV** Universal 120-277 Volt *
- 347V** 347 Volt
- 480V** 480 Volt

TY

TY 10-Years Limited Warranty

DRIVER TYPE

- DRDM** 0-10V Dimming Driver *
- DRDM1** 0-10V Dimming Driver, 1% Dimming
- DRDM2C** 2-Channel 0-10V Dimming Driver (for Color Tunable White)
- DR2W** 2-Wire Phase Dimming Driver
- DRDA** Digital Addressable DALI Dimming Driver
- DRDA2C** Digit Digital Addressable DALI Type8 2-Channel Driver (for Color Tunable White)
- DRDA2.0** Digital Addressable DALI 2.0 Dimming Driver
- DRDA2.02C** Digital Addressable DALI 2.0 Type8 2-Channel Driver (for Color Tunable White)
- DRSD** Step Dimming Driver
- DR(LTEA2W)** Lutron® 2-Wire 1% Dimming Driver (120V Forward Phase only)
- DR(LDE1)** Lutron® EcoSystem 1% Soft-On, Fade-to-Black™ Dimming Driver
- DR(LDE5)** Lutron® EcoSystem 5% Dimming Driver
- DR(PEQ0E)** Lutron® EcoSystem 0.1% Soft-On, Fade-to-Black Dimming Driver
- DR(PSQ020)** Lutron® T-Series Digital 1% Dimming 2-Channel Driver (for Color Tunable White)
- DRCR** Control Ready Driver
- DRCR(DXL)** Osram Dexal Driver
- DRCR(SR)** Philips Sensor Ready Driver

BATTERY PACK OPTIONS

PLEASE CONSULT FACTORY TO SEE IF YOUR SELECTED BATTERY PACK OPTION WORKS WITH THIS FIXTURE.

LED EMERGENCY BATTERY PACKS
(Operate for 90 minutes unless otherwise specified)

BPL SL 1.5 (2H)

NOTE

2H 2 hours

LUMEN PACKAGE

- 0.7** Nominal 750 Lumens
 - 1.5** Nominal 1500 Lumens *
 - 3.0** Nominal 3000 Lumens
- *Additional lumen packages available*

TYPE

- (Blank)** Normal Ambient Temp. / Standard Operation
- C** Cold Environment (-20°C)
- F** With Flex for Remote Mounting
- SL** Slim Casing
- ST** Self Test / Diagnostic

* Normal Stock Item



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SENSOR OPTIONS

HIGH FREQUENCY - INTERNALLY MOUNTED BEHIND FIXTURE LENS

MSHPC - Motion Sensor High Frequency (Microwave) with Photocell Option

- Super high frequency motion sensor (also known as microwave sensor) which detects movement when installed behind low density fixture materials, such as polycarbonate, acrylic and glass diffusers
- Holds lights OFF when sufficient daylight is present regardless of motion detection
- Selectable sensitivity and detection area
- Universal Voltage (120V-277V)
- Photocell is disabled by default

MSH - Motion Sensor High Frequency (Microwave)

- Super high frequency motion sensor (also known as microwave sensor) which detects movement when installed behind low density fixture materials, such as polycarbonate, acrylic and glass diffusers
- Turns light ON/OFF based on motion detection
- Universal Voltage (120V-277V)



CONTROLS AND SENSORS

WLC(LED RU) - EnOcean® LED Relay Zone Controller

- Supports a single LED fixture or multiple daisy chained LED fixtures
- Module installed inside lighting fixture

ESRPU-W-EO - EnOcean® Rocker Switch – Single – Surface Mount

- Wireless single rocker switch with mounting plate
- No batteries needed

EDRPU-W-EO - EnOcean® Rocker Switch – Double – Surface Mount

- Wireless double rocker switch with mounting plate
- No batteries needed

S3054-N300 - EnOcean® Navigan NWC 300U – Commissioning Tool

- Navigan Wireless Commissioner is used to configure EnOcean controllers & sensors
- It can be used to define link tables, change parameters/settings, and to edit & store projects
- Configuration settings can be saved and cloned to enable quick configuration
- Connectivity is through the NWC 300U USB Stick

EOSWU-W-EO - EnOcean® Occupancy Sensor – Wall Mount

- Wireless wall mounted occupancy sensor
- Solar powered - no batteries needed (coin battery operated in low light conditions)
- PIR motion sensor with both wide angle (50') and long range (100') options
- Mounting height: 6-8 feet

EOSCU-W-EO - EnOcean® Occupancy Sensor – Ceiling Mount

- Wireless ceiling mounted occupancy sensor
- Solar powered - no batteries needed (coin battery operated in low light conditions)
- PIR motion sensor with 360 degree viewing angle lens (34' diameter)
- Mounting height: 7-10 feet

ELLSU-W-EO - EnOcean® Light Level Sensor – Ceiling Mount

- Light Level sensor that measures and reports the level of available natural light
- Solar powered - no batteries needed (coin battery operated in low light conditions)
- Enables implementation of daylight harvesting control systems
- Mounting position: At the ceiling, close to ambient light source



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OPTICAL OPTIONS

STANDARD LENSES FOR GCR720

| | |
|-------------|--|
| PA2 | Clear Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base |
| FPA2 | Frosted Prismatic Acrylic, Nom. 0.125 OA Thickness |

ADDITIONAL AVAILABLE LENSES

(Not all optics suitable for fixture. Please consult factory to ensure selected optical option suits fixture. Please consult factory regarding any optical options not shown)

EXTRUDED PRISMATIC PATTERNS

| | |
|---------------|---|
| PA | Clear Prismatic Acrylic, No Thickness Specified, Female Prisms 3/16 Square Base |
| PA3 | Clear Prismatic Acrylic, Min. 0.125 OA Thickness, Female Prisms 3/16 Square Base |
| PA8 | Clear Prismatic Acrylic, Nom. 0.187 OA Thickness, Female Prisms 3/16 Square Base |
| P15 | Clear Prismatic Acrylic, Nom. 0.200 OA Thickness, Female Prisms 3/8 Square Base |
| P195 | Clear Prismatic Acrylic, Nom. 0.150 OA Thickness, Male Conical Prisms 3/16 Square Base |
| P198 | Clear Prismatic Acrylic, Nom. 0.187 OA Thickness, Male Conical Prisms 3/16 Square Base |
| PWA2 | White Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base |
| P3E | 3E Batwing Pattern Lens |
| P195RF | Clear Prismatic Acrylic, 19 Shunts Radio Frequencies To Ground, Nom. 0.150 OA Thickness |
| PA2UV | Clear Prismatic Acrylic, UV Blocking, Nom. 0.125 OA Thickness |

FLAT DIFFUSERS

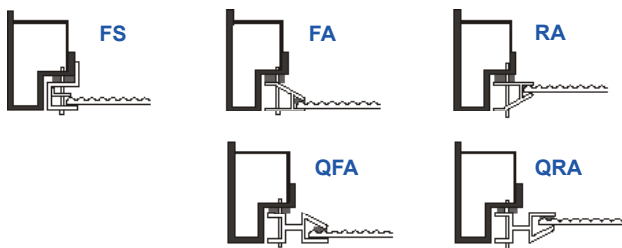
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|------------|---|-------------|---|
| FWA | Flat White Acrylic, No Thickness Specified, Stippled Finish | FWA2 | Flat White Acrylic, Nom. 0.125 Thickness, Stippled Finish |
| FFA | Frosted Flat Acrylic, No Thickness Specified | FFA2 | Frosted Flat Acrylic, Nom. 0.125 Thickness |
| CA8 | Clear Acrylic, Nom. 0.187 OA Thickness | CA | Clear Acrylic, No Thickness Specified |
| | | CA2 | Clear Acrylic, Nom. 0.125 OA Thickness |

HIGH IMPACT

| | |
|-------------|--|
| VL25 | Clear Polycarbonate, Nom. 0.125 Thickness with 0.125 Clear Prismatic Acrylic Overlay |
| VL37 | Clear Polycarbonate, Nom. 0.250 Thickness with 0.125 Clear Prismatic Acrylic Overlay |
| CPC2 | Clear Polycarbonate, Nom. 0.125 OA Thickness |
| CPC8 | Clear Polycarbonate, Nom. 0.187 OA Thickness |
| PPC8 | Clear Prismatic Polycarbonate, Nom. 0.187 OA Thickness, Female Prisms 3/16 Square Base |
| DRP3 | High Impact Clear Prismatic Acrylic, Min. 0.125 OA Thickness, Female Prisms 3/16 Square Base |
| DRP2 | High Impact Clear Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base |
| DRP8 | High Impact Clear Prismatic Acrylic, Nom. 0.187 OA Thickness, Female Prisms 3/16 Square Base |
| PPC2 | Clear Prismatic Polycarbonate, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base |

DOOR FRAME

CROSS SECTION



- FINISHES**
- W** White Enamel
 - B** Black Enamel
 - N** Natural Anodized Aluminum (Only FA / RA / QFA / QRA styles)
- STYLES**
- FS** Flat Steel (with internal frame rail)
 - FA** Flat Extruded Aluminum
 - RA** 5/8" Regressed Extruded Aluminum
 - QFA** Flat Extruded Aluminum-Black Reveal
 - QRA** 1/2" Regressed Extruded Aluminum-Black Reveal

FEATURES

- Inverted Lens
- T-Hinges and Positive Spring Loaded Latches
- Sealed with Neoprene Gasket
- Light Stop Covers Installed
- Internal Frame Rail



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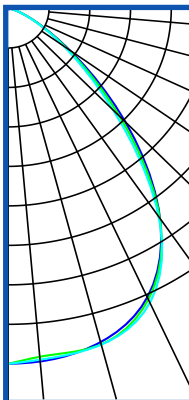
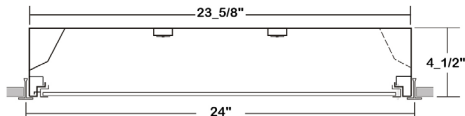
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PHOTOMETRIC DATA - GCR720 SERIES

GCR720-4-4L-FSW-PA2-DRDM-UNV-2/840

TEST NO. = LA-T3174-2
 LED TYPE = 48 LED MODULE
 NO. OF MODULE = 4
 SYSTEM WATT (W) = 31.3
 CRI ≥ 80
 L70(Hrs.) ≥ 50,000
 PHOTOMETRY TYPE = C



CANDLEPOWER

| ANGLE | END | 45 | CROSS |
|-------|------|------|-------|
| 0 | 1872 | 1872 | 1872 |
| 5 | 1867 | 1841 | 1857 |
| 15 | 1820 | 1832 | 1833 |
| 25 | 1679 | 1691 | 1710 |
| 35 | 1350 | 1349 | 1339 |
| 45 | 845 | 804 | 757 |
| 55 | 380 | 363 | 346 |
| 65 | 134 | 131 | 126 |
| 75 | 37 | 36 | 36 |
| 85 | 5 | 5 | 5 |
| 90 | 0 | 0 | 0 |
| 95 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 |
| 135 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 |

ZONAL LUMEN SUMMARY

| DEGREES | LUMENS | % LAMP | % FIXTURE |
|---------|--------|--------|-----------|
| 0-30 | 1479 | 32.9 | 42.9 |
| 0-40 | 2325 | 51.8 | 67.4 |
| 0-60 | 3273 | 73.0 | 94.9 |
| 0-90 | 3447 | 76.8 | 100.0 |
| 90-120 | .04 | 0.0 | 0.0 |
| 90-150 | .04 | 0.0 | 0.0 |
| 90-180 | .04 | 0.0 | 0.0 |
| 0-180 | 3447 | 76.8 | 100.00 |

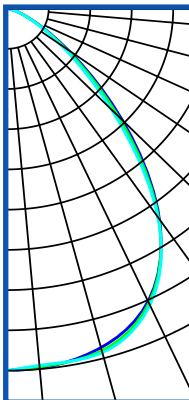
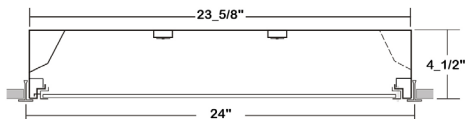
Luminaire Output= 3447 lumens
 Luminaire Efficacy = 110.1 lm/W

SPACING CRITERION

| ALONG | ACROSS |
|-------|--------|
| 1.19 | 1.20 |

GCR720-6-4L-FSW-PA2-DRDM-UNV-2/840

TEST NO. = LA-T3395-2
 LED TYPE = 48 LED MODULE
 NO. OF MODULE = 4
 SYSTEM WATT (W) = 45.5
 CRI ≥ 80
 L70(Hrs.) ≥ 50,000
 PHOTOMETRY TYPE=C



CANDLEPOWER

| ANGLE | END | 45 | CROSS |
|-------|------|------|-------|
| 0 | 2707 | 2707 | 2707 |
| 5 | 2698 | 2689 | 2679 |
| 15 | 2625 | 2650 | 2664 |
| 25 | 2416 | 2430 | 2447 |
| 35 | 1924 | 1914 | 1906 |
| 45 | 1178 | 1133 | 1071 |
| 55 | 533 | 505 | 478 |
| 65 | 190 | 183 | 176 |
| 75 | 52 | 52 | 50 |
| 85 | 7 | 7 | 6 |
| 90 | 0 | 0 | 0 |
| 95 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 |
| 135 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 |

ZONAL LUMEN SUMMARY

| DEGREES | LUMENS | % LAMP | % FIXTURE |
|---------|--------|--------|-----------|
| 0-30 | 2132 | 34 | 43 |
| 0-40 | 3335 | 53 | 68 |
| 0-60 | 4662 | 75 | 95 |
| 0-90 | 4904 | 79 | 100 |
| 90-120 | 0 | 0 | 0 |
| 90-150 | 0 | 0 | 0 |
| 90-180 | 0 | 0 | 0 |
| 0-180 | 4904 | 79 | 100 |

Luminaire Output= 4903.7 lumens
 Luminaire Efficacy = 107.8 lm/W

SPACING CRITERION

| ALONG | ACROSS |
|-------|--------|
| 1.19 | 1.19 |



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