The Halo RA56 LED Adjustable Gimbal series are retrofit LED

Modules for 5" and 6" aperture recessed downlights. The RA56
gimbals feature adjustment of 35-degree tilt and up to 360-degree
rotation. In addition the RA56 gimbals offer selection of narrow
flood (NFL) and very wide flood (VWFL) models for beam
distributions suitable for accent, task, grazing and general area

Comments

| Catalog # | Туре |
|-------------|------|
| Project | |
| Comments | Date |
| Prepared by | |

SPECIFICATION FEATURES

MECHANICAL

- Module includes LED, heat sink, reflector, lens optic, baffle reveal, and trim ring
- Trim ring is sized to conceal 5" and 6" housing openings, and features a visually appealing graduated step design
- Durable die-cast aluminum construction
- Integrated heat sink design conducts heat away from the LED keeping the junction temperatures below specified maximums, even when installed in insulated ceiling environments
- Halo matte white paint finish
- 35-degree tilt
- Up to 360-degree rotation

Optics

NARROW FLOOD - NFL

- Precision acrylic lens
- Optical design creates a clean, uniform 25-degree beam distribution

VERY WIDE FLOOD - VWFL

- Impact-resistant polycarbonate
- Convex form for lamp-like appearance
- Diffusing, wide beam for even illumination

MOUNTING

Torsion Spring Brackets

 Pre-installed precision formed torsion spring brackets secure torsion springs and adjust to fit 5" or 6" compatible housings

5" & 6" Friction Blade Kit

- Precision formed friction blades kit included (2 - 5" and 2 - 6")
- Provide alternative to torsion springs for retrofit in 5" and 6" housings without torsion spring mounting tabs.
- Friction blade design allows the RL560 to be installed in any position within the housing aperture (360 degrees).
- Replacement Kit: RL56CLIP

Housing Compatibility

See Housing Compatibility

LED

lighting. The RA56 integral LED 120V driver is dimmable with most

leading edge and trailing edge phase control dimmers.

- ColorTemperature (CCT) Options: 2700K, 3000K
- Color Rendering Index (CRI) 92
- LED is a chip on board design consisting of a multiple
 LED package with proximity phosphor coating to create one virtual white light source for a productive "cone of light"

ELECTRICAL

Power Connections

- LED connector is a non-screw base luminaire disconnect offering easy installation with the matching Halo 5" H550 Series and 6" H750 and H2750 Series LED housings.
- LED Connector meets highefficacy luminaire requirements for a non-screw base socket, and where required to qualify as a high-efficacy luminaire. (California Title-24)
- The included E26 medium screw-base Edison adapter provides easy retrofit of incandescent housings (see Housing Compatibility).

Ground Connection

 Separate grounding cable included on the module for attachment to the housing during installation.

LED Driver

- Dimmable driver is a 120 Volt, high efficiency, electronic power supply providing DC power to the LED.
- Driver meets FCC EMI/RFI Consumer Level limits for use in residential and commercial installations.
- Driver features high power factor, low THD, and has integral thermal protection in the event of over temperature or internal failure.
- Driver mounts externally to the module, allowing future replacement, if needed.

Dimming

- The Halo RA56 LED is designed for dimming capability to 10% in normal operation with standard 120V leading edge (LE) and trailing edge (TE) phase control dimmers.
- The LED module may also dim to 5% nominal using dimmers with low end trim adjustment. (Consult dimmer manufacturer for dimmer details. Note, some dimmers require a neutral in the wallbox.)

Warranty

Cooper Lighting provides a five year limited warranty on RA56 LED.

Compliance Labels

- UL/cUL Listed 1598 Luminaire (with listed Halo housings)
- UL Classified (with other housings - see Housing Compatibility)
- UL/cUL Listed for Damp Location
- May be installed in housings in direct contact with air permeable insulation** and combustible material

Qualification

- ENERGY STAR® qualified residential and commercial*
- Can be used for State of California Title 24 high efficacy luminaire compliance*
- Can be used for Washington State Energy Code (WSEC) and International Energy Conservation Code (IECC) high efficacy luminaire Compliance

IC (Insulated Ceiling)

Listed UL/cUL 1598 with compatible housings, may be used to meet insulated ceiling** requirements such as:

- Washington State Energy Code (WSEC)
- International Energy Conservation Code (IECC)
- New York State Energy Conservation Construction Code (NY-ECCC)
- State of California Title 24 "Recessed Luminaires in Insulated Ceilings."



RA56 LED Very Wide Flood (VWFL)

HALO

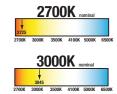


RA56 LED Narrow Flood (NFL)

5-Inch / 6-Inch Adjustable Gimbals All-Purpose Recessed Retrofit Modules

FOR USE IN INSULATED
CEILING AND
NON- INSULATED
CEILING RATED HOUSINGS

HIGH EFFICACY LED WITH INTEGRAL DRIVER -DIMMABLE





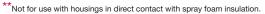








^{*}Qualified and compliant. Refer to ENERGY STAR® Qualified Products List and CEC (T24) Appliance Database for listings.



ENERGY DATA

Minimum Starting Temp: -30°C (-22°F) EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer) Sound Rating: Class A standards Input Voltage: 120V Power Factor: >0.90 Input Frequency: 50/60Hz THD: <20% Input Power: 10W

Driver-Safety Agency Approvals:

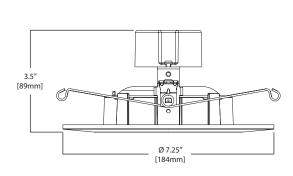
- UL60950-1 Recognized
- LPS output
- UL8750 Compliant

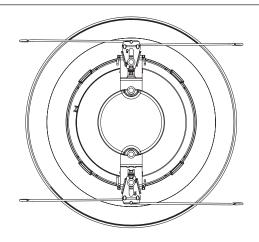
Maximum IC (Insulated Ceiling) Ambient Continuous Operating Temperature: 25°C (77°F)

Maximum Non-IC (NON-Insulated Ceiling) Ambient Continuous Operating Temperature 40°C (104°F)

DIMENSIONS

Input Current: 85mA





LIGHTING FACTS

RA5606927WH

2700K Source VWFL Beam



RA5606930WH

3000K Source VWFL Beam



RA5606927NFLWH

2700K Source NFL Beam



RA5606930NFLWH

3000K Source NFL Beam



For further information refer to the Lighting Facts website at http://lightingfacts.com/.

ORDERING INFORMATION

SAMPLE NUMBER: RA5606930WH

Complete unit includes RA56 LED and a 5" or 6" compatible housing, ordered separately (see: Housing Compatibility).

Very Wide Flood - VWFL Models

RA5606927WH= 5"/6" LED Adjustable Gimbal, 90CRI, 2700K, White, Very Wide Flood RA5606930WH= 5"/6" LED Adjustable Gimbal, 90CRI, 3000K, White, Very Wide Flood

Narrow Flood - NFL Models

RA5606927NFLWH= 5"/6" LED Adjustable Gimbal, 90CRI, 2700K, White, Narrow Flood RA5606930NFLWH= 5"/6" LED Adjustable Gimbal, 90CRI, 3000K, White, Narrow Flood

HE26LED=Replacement screw base adapter (one included with unit)

RL56CLIP=Replacement 5"/6" Friction Blade Kit (one included with unit)
OT400P=Oversize Flat White Metal trim ring 6" I.D. x 9-1/4" O.D. (ring slips behind RA56 ring, in stepped configuration)

OT403P=Oversize White Plastic trim ring 6" I.D. x 8" O.D. (ring slips behind RA56 ring, in stepped configuration)

TRM690WH=Oversize Matte White Metal trim ring. Designed for RA56 ring to inset into oversize ring for an even (non-stepped) trim surface



UL Listed

Compatible Halo LED Housings with LED luminaire connector (high-efficacy compliant)

| | Recessed Can Size | Catalog Number | Description |
|------|-------------------|----------------|--|
| | 611 | H550ICAT | 5" LED, Insulated Ceiling, AIR-TITE, New Construction Housing |
| | 5" | H550RICAT | 5" LED, Insulated Ceiling, AIR-TITE, Remodel Housing |
| | | H750ICAT | 6" LED, Insulated Ceiling, AIR-TITE, New Construction Housing |
| HALO | | H750RICAT | 6" LED, Insulated Ceiling, AIR-TITE, Remodel Housing |
| | 6" | H750T | 6" LED, Non-IC, AIR-TITE, New Construction Housing |
| | O | H750RINTD010 | 6" LED, Non-IC, AIR-TITE, Remodel International Housing |
| | | H750TCP | 6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing |
| | | H2750ICAT | 6" LED, Shallow, Insulated Ceiling, AIR-TITE, New Construction Housing |

UL Listed Compatible Halo Incandescent E26 Screwbase Housings

| | | H5ICAT | 5" Insulated Ceiling, AIR-TITE New Construction Housing |
|--------|----------|----------|--|
| | | H5RICAT | 5" Insulated Ceiling, AIR-TITE Remodel Housing |
| | 5" | H5T | 5" Non-IC, New Construction Housing |
| | 5 | H5RT | 5" Non-IC, Remodel Housing |
| | | H5TM | 5" Non-IC, New Construction Housing (metric version - Canada) |
| | | H25ICAT | 5" Shallow, Insulated Ceiling, AIR-TITE New Construction |
| | | H7ICAT | 6" Insulated Ceiling, AIR-TITE New Construction Housing |
| | | H7RICAT | 6" Insulated Ceiling, AIR-TITE Remodel Housing |
| | | H7ICT | 6" Insulated Ceiling, New Construction Housing |
| | | H7RICT | 6" Insulated Ceiling, Remodel Housing |
| | | H7ICATNB | 6" Insulated Ceiling, AIR-TITE New Construction Housing, No Socket Bracket |
| наго | | H7ICTNB | 6" Insulated Ceiling, New Construction Housing, No Socket Bracket |
| HALO 6 | | H7T | 6" Non-IC, New Construction Housing |
| | | H7RT | 6" Non-IC, Remodel Housing |
| | 6" | H7TNB | 6" Non-IC, New Construction Housing, No Socket Bracket |
| | 0 | H7TCP | 6" Non-IC, Chicago Plenum, New Construction/Remodel Housing |
| | | H7UICT | 6" Insulated Ceiling, Universal New Construction Housing |
| | | H7UICAT | 6" Insulated Ceiling, Universal, AIR-TITE, New Construction Housing |
| | | H27ICAT | 6" Shallow, Insulated Ceiling, AIR-TITE New Construction Housing |
| | | H27RICAT | 6" Shallow, Insulated Ceiling, AIR-TITE Remodel Housing |
| | | H27ICT | 6" Shallow, Insulated Ceiling, New Construction Housing |
| | | H27RICT | 6" Shallow, Insulated Ceiling, Remodel Housing |
| | | H27T | 6" Shallow, Non-IC, New Construction Housing |
| | | H27RT | 6" Shallow, Non-IC, Remodel Housing |



Halo LED Retrofit Enclosures

| ПУІО | GII | ML7BXRFK 6" Retrofit Enclosure, Non-IC, BX Whip | 6" Retrofit Enclosure, Non-IC, BX Whip |
|------|-----|---|---|
| пас | 0" | ML7E26RFK | 6" Retrofit Enclosure, Non-IC, E26 Screw base Interface |

Compatible All-Pro Incandescent E26 Screwbase Housings

| | Recessed Can Size | Catalog Number | Description |
|---------|-------------------|----------------|--|
| | | EI500AT | 5" Insulated Ceiling, AIR-TITE New Construction Housing |
| | 5" | EI500RAT | 5" Insulated Ceiling, AIR-TITE Remodel Housing |
| | 5 | ET500 | 5" Non-IC, New Construction Housing |
| | | ET500R | 5" Non-IC, Remodel Housing |
| | | EI700AT | 6" Insulated Ceiling, AIR-TITE New Construction Housing |
| | | EI700RAT | 6" Insulated Ceiling, AIR-TITE Remodel Housing |
| | | EI700 | 6" Insulated Ceiling, New Construction Housing |
| | | EI700R | 6" Insulated Ceiling, Remodel Housing |
| All-Pro | | EI700ATNB | 6" Insulated Ceiling, AIR-TITE New Construction Housing, No Socket Bracket |
| All 110 | | EI700NB | 6" Insulated Ceiling, New Construction Housing, No Socket Bracket |
| | | EI700U | 6" Insulated Ceiling, Universal New Construction Housing |
| | 6" | EI700UAT | 6" Insulated Ceiling, Universal, AIR-TITE, New Construction Housing |
| | | ET700 | 6" Non-IC, New Construction Housing |
| | | ET700R | 6" Non-IC, Remodel Housing |
| | | EI2700AT | 6" Shallow, Insulated Ceiling, AIR-TITE New Construction Housing |
| | | El2700 | 6" Shallow, Insulated Ceiling, New Construction Housing |
| | | EI2700R | 6" Shallow, Insulated Ceiling, AIR-TITE Remodel Housing |
| | | ET2700 | 6" Shallow, Non-IC, New Construction Housing |
| | | ET2700R | 6" Shallow, Non-IC, Remodel Housing |

HOUSINGS - UL Classified

For retrofit in the following 5" and 6" recessed housings:

| Juno® | IC22, IC22R, IC22W, IC22S, IC23, IC23W, IC21, IC21R, IC2, TC2, TC2R, IC20, IC20R, IC25, IC25R, IC25W, IC25S, TC20, TC20R |
|----------------------|--|
| Capri Lighting | CR1, PR1, QL1, R9ASIC, R5* |
| Lightolier® | 1104lCS*, 1104lCR*, 1104SlC*, 1104SlCR*, 1004lCS*, 1004lCR*, 1004SlC*, 1004SlCR* |
| Lightoner | 1104ICX - Requires installation of ML7RAB retrofit adapter band accessory (not included). |
| Progress® Lighting | P87-AT*, P86TG |
| Lithonia Lighting® | L7X, L7XP |
| Thomas® Lighting | PS1, R9ASIC/PS9RM |
| Prescolite® | IBXS |
| Commercial Electric™ | C7ICA (H3), H18 |
| Elco Lighting® | (HL7ICA) EL7ICA |

^{*}Requires replacement of torsion springs with included friction clips (accessory replacement kit: RL56CLIP).

Juno®, Capri Lighting, Lightolier®, Lithonia Lighting®, Thomas® Lighting, Elco Lighting®, Progress® Lighting, Prescolite® and Commercial Electric™ and their product brand names, where identified above, are tradenames or trademarks of each respective company and Cooper Lighting makes no representations on these trademarks.



PHOTOMETRY

RA5606927WH

Reflector Beam Angle = VWFL Beam (Very Wide Flood)

CCT = 2700K Spacing Criteria = 1.23 Lumens per Watt = 64.5 Lm/W Test No. P121913

Test Model: RA5606927WH

| Cone of Light Footcandles O deg Aiming Angle Horizontal Illuminance on Floor | | | | | |
|---|---------------|--------------------|-------------------|--|--|
| Distance to | Initial Nadir | Beam (ft.) | | | |
| Illuminated Plane | Footcandles | L Length | W Width | | |
| 5.5' | 9.2 | 6.6 | 6.6 | | |
| 7' | 5.7 | 8.4 | 8.4 | | |
| 8' | 4.3 | 9.8 | 9.8 | | |
| 9' | 3.4 | 11 | 11 | | |
| 10' | 2.8 | 12.2 | 12.2 | | |

| Candlepower Distribution | | | |
|--------------------------|----------------------|---|--|
| | Eyeball at 0-degrees | | |
| | 90° | | |
| 100 | 60° | • | |
| 200 | 45" | • | |
| 300 | 0° 15° 30° | | |

| Candela Distribution | | |
|----------------------|---------|--|
| Degrees Vertical | Candela | |
| 0* | 277 | |
| 5 | 276 | |
| 15 | 267 | |
| 25 | 244 | |
| 35 | 211 | |
| 45 | 160 | |
| 55 | 103 | |
| 65 | 55 | |
| 75 | 23 | |
| 85 | 4 | |
| 90 | 0 | |

*CBCP

| (Average Candela/M²) | | |
|-----------------------------|-------|--|
| Degree Avg. 0° Luminance | | |
| 45 | 31342 | |
| 55 | 24818 | |
| 65 | 17873 | |
| 75 | 12507 | |
| 85 | 6032 | |

| Cone of Light Footcandles 35 deg Aiming Angle Vertical Illuminance on Wall | | | | |
|--|---------------|--------------------|-------------------|------|
| Distance to | Initial Nadir | Bean | n (ft.) | |
| Illuminated Plane | Footcandles | L Length | W Width | СВ |
| 2' | 43.7 | 2.1 | 2.4 | 2.9 |
| 3' | 19.4 | 3.1 | 3.8 | 4.3 |
| 4' | 10.9 | 4.1 | 5 | 5.7 |
| 5' | 7 | 5.2 | 6.2 | 7.1 |
| 6' | 4.9 | 6.4 | 7.6 | 8.6 |
| 8' | 2.7 | 8.4 | 10.2 | 11.4 |
| 10' | 1.7 | 10.7 | 12.6 | 14.3 |

| Zonal Lumen Summary | | | | |
|---------------------|--------|-----------|--|--|
| Zone | Lumens | % Fixture | | |
| 0-30 | 214 | 33.2 | | |
| 0-40 | 345 | 53.5 | | |
| 0-60 | 560 | 86.9 | | |
| 0-90 | 645 | 100 | | |

RA5606930WH

Reflector Beam Angle = VWFL Beam (Very Wide Flood)

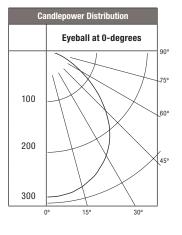
CCT = 3000K

Spacing Criteria = 1.23 Lumens per Watt = 67 Lm/W

Test No. P121915

Test Model: RA5606930WH

| Cone of Light Footcandles 0 deg Aiming Angle Horizontal Illuminance on Floor | | | |
|--|---------------|--------------------|-------------------|
| Distance to | Initial Nadir | Bean | n (ft.) |
| Illuminated Plane | Footcandles | L Length | W Width |
| 5.5' | 9.5 | 6.6 | 6.6 |
| 7' | 5.9 | 8.4 | 8.4 |
| 8' | 4.5 | 9.8 | 9.8 |
| 9' | 3.6 | 11 | 11 |
| 10' | 2.9 | 12.2 | 12.2 |



| Candela Distribution | | |
|----------------------|---------|--|
| Degrees Vertical | Candela | |
| 0* | 288 | |
| 5 | 287 | |
| 15 | 277 | |
| 25 | 253 | |
| 35 | 219 | |
| 45 | 166 | |
| 55 | 107 | |
| 65 | 57 | |
| 75 | 24 | |
| 85 | 4 | |
| 90 | 0 | |
| | *CBCP | |

| Luminance | | |
|-----------------------------|--|--|
| (Average Candela/M²) | | |
| Degree Avg. 0° Luminance | | |
| 32555 | | |
| 25783 | | |
| 18560 | | |
| 12988 | | |
| 6349 | | |
| | | |

| Cone of Light Footcandles 35 deg Aiming Angle Vertical Illuminance on Wall | | | | |
|--|------------------------------|--------------------|-------------------|------|
| Distance to | Initial Nadir Footcandles | Beam (ft.) | | |
| Illuminated Plane | | L Length | W Width | СВ |
| 2' | 45.4 | 2.1 | 2.4 | 2.9 |
| 3' | 20.2 | 3.1 | 3.8 | 4.3 |
| 4' | 11.3 | 4.1 | 5 | 5.7 |
| 5' | 7.3 | 5.2 | 6.2 | 7.1 |
| 6' | 5 | 6.4 | 7.6 | 8.6 |
| 8' | 2.8 | 8.4 | 10.2 | 11.4 |
| 10' | 1.8 | 10.7 | 12.6 | 14.3 |

| Zonal Lumen Summary | | | |
|---------------------|------------------|------|--|
| Zone | Lumens % Fixture | | |
| 0-30 | 222 | 33.2 | |
| 0-40 | 358 | 53.5 | |
| 0-60 | 582 | 86.9 | |
| 0-90 | 670 | 100 | |



PHOTOMETRY

RA5606927NFLWH

Reflector Beam Angle = NFL Beam (Narrow Flood)

CCT = 2700K Spacing Criteria = 0.36 Lumens per Watt = 62.5 Lm/W Test No. P121911

Test Model: RA5606927NFLWH

| Cone of Light Footcandles 0 deg Aiming Angle Horizontal Illuminance on Floor | | | | |
|--|---------------|--------------------|-------------------|--|
| Distance to | Initial Nadir | | am (ft.) | |
| Illuminated Plane | Footcandles | L Length | W Width | |
| 5.5' | 90.3 | 1.8 | 1.8 | |
| 7' | 55.8 | 2.4 | 2.4 | |
| 8' | 42.7 | 2.8 | 2.8 | |
| 9' | 33.7 | 3.2 | 3.2 | |
| 10' | 27.3 | 3.6 | 3.6 | |

| Candlepower Distribution | | |
|--------------------------|----------------------|--|
| | Eyeball at 0-degrees | |
| | 90° | |
| 950 | 60° | |
| 1900 | 45° | |
| 2850 | | |
| | 0° 15° 30° | |

| Candela Distribution | | |
|----------------------|---------|--|
| Degrees Vertical | Candela | |
| 0* | 2732 | |
| 5 | 2371 | |
| 15 | 740 | |
| 25 | 239 | |
| 35 | 69 | |
| 45 | 27 | |
| 55 | 16 | |
| 65 | 9 | |
| 75 | 3 | |
| 85 | 0 | |
| 90 | 0 | |
| | *CBCP | |

| (Average Candela/M²) | | |
|-----------------------------|------|--|
| Degree Avg. 0° Luminance | | |
| 45 | 4649 | |
| 55 | 2981 | |
| 65 | 1846 | |
| 75 | 828 | |
| 85 | 97 | |

| Cone of Light Footcandles 35 deg Aiming Angle Vertical Illuminance on Wall | | | | |
|--|---------------|--------------------|------------|------|
| Distance to | Initial Nadir | Bear | Beam (ft.) | |
| Illuminated Plane | Footcandles | L Length | W Width | СВ |
| 2' | 157.4 | 1.7 | 1 | 2.9 |
| 3' | 70 | 2.6 | 1.6 | 4.3 |
| 4' | 39.4 | 3.5 | 2.2 | 5.7 |
| 5' | 25.2 | 4.4 | 2.8 | 7.1 |
| 6' | 17.5 | 5.3 | 3.4 | 8.6 |
| 8' | 9.8 | 7 | 4.4 | 11.4 |
| 10' | 6.3 | 8.8 | 5.6 | 14.3 |

| Zonal Lumen Summary | | | |
|---------------------|--------|-----------|--|
| Zone | Lumens | % Fixture | |
| 0-30 | 530 | 84.7 | |
| 0-40 | 576 | 92.1 | |
| 0-60 | 612 | 97.9 | |
| 0-90 | 625 | 100 | |

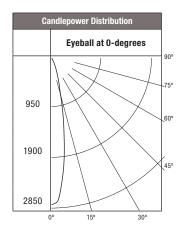
RA5606930NFLWH

Reflector Beam Angle = NFL Beam (Narrow Flood)

CCT = 3000K Spacing Criteria = 0.36 Lumens per Watt = 64 Lm/W Test No. P121912

Test Model: RA5606930NFLWH

| Cone of Light Footcandles 0 deg Aiming Angle Horizontal Illuminance on Floor | | | |
|--|---------------|--------------------|-------------------|
| Distance to | Initial Nadir | Bean | n (ft.) |
| Illuminated Plane | Footcandles | L Length | W Width |
| 5.5' | 92.5 | 1.8 | 1.8 |
| 7' | 57.1 | 2.4 | 2.4 |
| 8' | 43.7 | 2.8 | 2.8 |
| 9' | 34.5 | 3.2 | 3.2 |
| 10' | 28 | 3.6 | 3.6 |



| Candela Distribution | | |
|----------------------|---------|--|
| Degrees Vertical | Candela | |
| 0* | 2798 | |
| 5 | 2428 | |
| 15 | 758 | |
| 25 | 245 | |
| 35 | 70 | |
| 45 | 28 | |
| 55 | 17 | |
| 65 | 9 | |
| 75 | 3 | |
| 85 | 0 | |
| 90 | 0 | |
| | *CBCP | |

| Luminance | | | |
|------------|----------------------|--|--|
| (Average C | (Average Candela/M²) | | |
| Degree | Avg. 0° Luminance | | |
| 45 | 4751 | | |
| 55 | 3055 | | |
| 65 | 1909 | | |
| 75 | 853 | | |
| 85 | 97 | | |

| Cone of Light Footcandles 35 deg Aiming Angle Vertical Illuminance on Wall | | | | | |
|---|---------------|-------------|-------------------|------|--|
| Distance to Illuminated Plane Initial Nadir Footcandles | Initial Nadir | Beam (ft.) | | | |
| | | L Length | W Width | СВ | |
| 2' | 161.2 | 1.7 | 1 | 2.9 | |
| 3' | 71.6 | 2.6 | 1.6 | 4.3 | |
| 4' | 40.3 | 3.5 | 2.2 | 5.7 | |
| 5' | 25.8 | 4.4 | 2.8 | 7.1 | |
| 6' | 17.9 | 5.3 | 3.4 | 8.6 | |
| 8' | 10.1 | 7 | 4.4 | 11.4 | |
| 10' | 6.4 | 8.8 | 5.6 | 14.3 | |

| Zonal Lumen Summary | | | | |
|---------------------|--------|-----------|--|--|
| Zone | Lumens | % Fixture | | |
| 0-30 | 542 | 84.7 | | |
| 0-40 | 590 | 92.1 | | |
| 0-60 | 627 | 97.9 | | |
| 0-90 | 640 | 100 | | |

