HEMIS

DOWNLIGHT RECESSED











Hemi is a line of hemisphere-shaped luminaires designed with exceptional rotational and tilt capabilities and a sleek aiming mechanism allowing for a vast range of precisely positioned solutions for both task and ambient requirements.

Beam Angles



Performance

| 2" Module | 1338 lm | 14 W | 96 lm/W | | | | | | | |
|---|-----------------------|----------------|----------|--|--|--|--|--|--|--|
| ¹ Lumen packages are assuming 3500K, 80 CRI, 30° beam. | | | | | | | | | | |
| | | | | | | | | | | |
| AMBIENT | LUMEN OUTPUT 2 | WATTS | EFFICACY | | | | | | | |
| Soft Ambient | 502 lm | 13 W | 39 lm/W | | | | | | | |
| ² Lumen packages are a | ssuming 3500K, 80 CRI | white dome fir | nish. | | | | | | | |

Light Source

Static White SOLA - Dim-to-Warm DUO - Tunable White TRIO - Three-channel Red, Green, Blue



СОВ

2 Step Color Binning Up to 95 CRI

Driver

1%, 0.1% Dimming Available 0-10V, TRIAC, ELV, Lutron EcoSystem, DALI, DMX

Configurations





Ceiling Types











Installation Types

New Construction (Type Non-IC) Remodel (Type Non-IC)

Plenum Clearance

As low as 2 3/4"



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| 4 | |
|---|-----------|
| | 1 |
| | Lumenwerx |
| | |

| Project: | |
|----------|--|
| | |
| | |
| Type: | |

Order Guide

1 - Housing

Example: HEMSR-ADJ1X2IN-AMBSA-TRM-SW-SW-OF-ASB-120V-10W-7W-D1-D1

| LUMINAIRE ID | CONFIGURATION ADJUSTABLE MODULE | CONFIGURATION AMBIENT | TRIM STYLE | LIGHT SOURCE ADJUSTABLE MODULE | LIGHT SOURCE AMBIENT | INSTALLATION TYPE ² |
|-------------------------------|---|--|---|--|--|---|
| HEMSR | | | | | | |
| HEMSR - Hemi S Recessed | ADJIX2IN - One 2" module ADJNA - None | AMBSA -Soft ambient AMBNA - None | TRM - Flanged trim TLMP - Trimless drywall mudplate TLMW 1 - Trimless millwork 1 For remodel (RM) installation type, TLMW adapter must be installed from above the ceiling or before ceiling is installed. | SW - Static white FS - Full spectrum SOLA - Dim-to-warm single channel control 35K to 22K DUO - Tunable white 2-channel control 65K to 27K NA - Not applicable | SW - Static white SOLA - Dim-to-warm single channel control 35K to 22K DUO - Tunable white 2-channel control 65K to 27K TRIO - Three-channel Red, Green, Blue NA - Not applicable | OF - Open Frame Type Non-IC RM - Remodel Type Non-IC ² Consult factory for Type-IC (IC/CP). |

| MOUNTING OPTION ³ | VOLTAGE | VOLTAGE WATTAGE ADJUSTABLE MODULE ⁵ TOTAL WATTAGE MUST N | | | | DIMMING ADJUSTABLE MODULE ^{7,8} | | DIMMING AMBIENT 7.8 | | |
|--|----------------------------|---|---|--|--|--|--|---|---|--|
| ASB ⁴ - Adjustable | 120V - 120V 277V - 277V | SW/FS 6 | | SW | Soft ambient 7W - 7 W, up to 273 Im | <u>SW</u> D1 - 1% 0-10V ELV 9,10 - ELV 120V | SOLA SD1 - 1% | 0-10V - ELV 120V | TRIO ¹² DMX ¹¹ - DMX | |
| standard bar hangers FMB ⁴ - Flush mount bars ACB ⁴ - Adjustable commercial bar hangers AHC ⁴ - Adjustable hat channel bars | | SOLA | 8W - 8 W output, up to 1338 lm 8W - 8 W output, up to 560 lm (20° only) 13W - 13 W output, up to 900 lm (40° and up) | SOLA | 10W - 10 W, up to 368 lm 13W - 13 W, up to 460 lm 7W - 7 W, up to 273 lm 10W - 10 W, up to 368 lm 13W - 13 W, up to 460 lm | TRI 9.10 - TRIAC 120V STRI 9.10 SI M ECO | STRI 9,10 DUO DMX 11 - DDA 11 - | - TRIAC 120V DMX DALI DT6 | | |
| | | | DUO | 5W - 5 W output, up to 300 lm (20° only) 10W - 10 W output, up to 640 lm (40° and up) | DUO | 7W - 7 W, up to 281 lm 10W - 10 W, up to 379 lm 13W - 13 W, up to 474 lm | ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V DMX " - DMX | DD1 - Du for CCT/i LD2 " - L digital | - DALI DT8 ual 0-10V input ntensity utron DALI-2 | |
| NA - None 3 See page 4 for more details. 4 Not available with RM installation type. | | | NA - Not applicable AL WATTAGE OF ALL THE MODULES AN outputs are reduced with full spectrum. Se | D AMBIEN | | ⁷ See table on page 6 for valid combinations. ⁸ PoE (Power-over-Ethernet) of Consult factory for details. ⁹ Available with 120V only. | | ¹⁰ Not available wi | sioning is required | |

2 - Light & Baffle

| LUMINAIRE ID | NAIRE ID CONFIGURATION CONFIGURATION ADJUSTABLE MODULE ¹³ AMBIENT ¹⁴ | | TRIM STYLE | BAFFLE FINISH | TRIM FLANGE FINISH | DOME FINISH | |
|-------------------|---|---|--|---|--|--|--|
| HEMSL | | | | | | | |
| HEMSL - Hemi S | ADJIX2IN() - One 2" module ADJNA - None ¹³ See Adjustable module specification below to specify options between the parentheses. | AMBSA() - Soft ambient AMBNA - None 14 See Ambient specification below to specify options between the parentheses. | TRM - Flanged trim TLMP - Trimless drywall mudplate TLMW ¹⁵ - Trimless millwork ¹⁵ For remodel (RM) installation type, TLMW adapter must be installed from above the ceiling or before ceiling is installed. | FTMW - Textured matte white FTMB - Textured matte black CF# - Custom finish, specify RAL# | FTMW - Textured matte white FTMB - Textured matte black CF# - Custom finish, specify RAL# NA - Not applicable (specify for Trimless) | FTMW - Textured matte white FTMB ¹⁶ - Textured matte black CF# - Custom finish, specify RAL# *Not available when specified with Ambient. | |

→ Adjustable Module Specification

| ADJUSTABLE MODULE ID | LIGHT SOURCE ADJUSTABLE MODULE | BEAM | COLOR QUALITY | CRI ADJUSTABLE MODULE | COLOR TEMP. ADJUSTABLE MODULE | OPTICAL OPTIONS ²¹ | MODULE FINISH | AMBIENT ID | LIGHT SOURCE AMBIENT | CRI AMBIENT | COLOR TEMP. AMBIENT |
|-------------------------|--|--|---|--|--|---|---|---------------|---|--|--|
| ADJIX2IN() | SW - Static | 10DEG 17 - 10° | 2STP 18 - | 90CRI 19 - | 27K - 2700K | LS - Linear spread | FTMW - | AMBSA() | SW - Static white | 90CRI - 90 | 27K - 2700K 30K - 3000K |
| | white FS - Full | Narrow spot 20DEG - 20° | 2 Step MacAdam | 90 CRI 95CRI ²⁰ - | 30K - 3000K 35K - 3500K | HEX ²² - Hex louver SNB - Snoot, black | Textured matte | | SOLA - Dim- to-warm single | 95CRI ²³ - 95 CRI | 35K - 3500K 40K - 4000K |
| | spectrum | Spot 30DEG 17 - 30° | Ellipse 3STP - 3 | 95 CRI 80CRI ^{19, 20} - | 40K - 4000K SOLA - Dim- | SNW - Snoot, white HSNB - Half snoot. | | | channel control | 80CRI - 80 | SOLA - Dim- |
| | to-warm single | Narrow flood | Step | 80 CRI | to-warm single | black | Textured | | 35K to 22K DUO - | CRI NA - Not | to-warm single channel control |
| | channel control 35K to 22K | 40DEG - 40° Flood | MacAdam Ellipse | ¹⁹ Not available with full | | HSNW - Half snoot, white | matte black | | Tunable white 2-channel | applicable (specify for | 35K to 22K DUO - Tunable |
| | DUO - Tunable white 2-channel control 65K to 27K | 50DEG - 50° Wide flood 7 Not available for SOLA and DUO. | ¹⁸ Available with static white (SW) only. | spectrum. 20 Not available with SOLA/ DUO. | Tunable white | ²¹ Maximum 1 accessory for each module. | CF# - Custom finish, specify RAL# | | control 65K to 27K TRIO - Three- channel Red, Green, Blue | TRIO) 23 Available with static white (SW) only. | white 2-channel control 65K to 27K TRIO - Three- channel Red, Green, Blue |





Ambient Specification ◀





Configurations

ADJ1X2IN - One 2" module

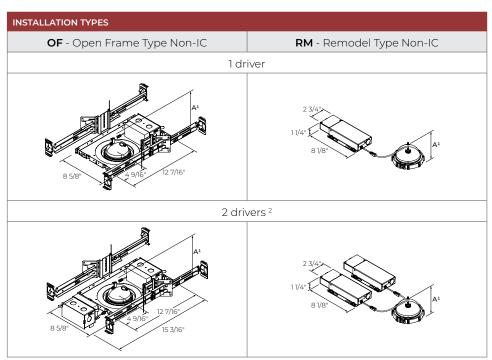


Rotation 355° Tilt up to 30° from vertical

AMBSA - Soft ambient

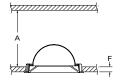


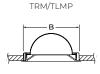
Housing

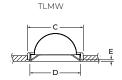


¹For height dimension A, see the PLENUM CLEARANCE & CUT-OUT DIMENSIONS table below.

PLENUM CLEARANCE & CUT-OUT DIMENSIONS







| | PLENUM CLEARANCE HEIGHT | | | | | | | | |
|---|-------------------------|--------|--|--|--|--|--|--|--|
| | OF | RM | | | | | | | |
| Α | 4 3/4" | 2 3/4" | | | | | | | |

| | (| CUT-OUT DIMENSIONS | | | | | | | |
|---|----------|--------------------|--|--|--|--|--|--|--|
| В | TRM/TLMP | Ø 5" | | | | | | | |
| С | | Ø 5" | | | | | | | |
| D | TLMW | Ø 4 1/8" | | | | | | | |
| E | | 3/16" | | | | | | | |

| | MAXIMUM CEILING THICKNESS |
|---|---------------------------|
| F | 1" |







²When 2 light elements are specified, two drivers are provided.

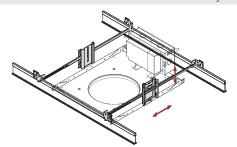




Housing

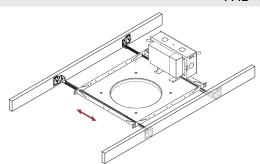
MOUNTING OPTIONS

ASB - Adjustable Standard Bar Hangers



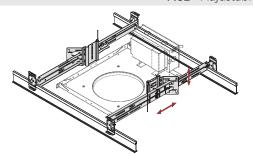
Adjustable Standard Bar hangers can be used in both commercial and residential applications and are adjustable to various heights in both Grid Ceiling and Drywall mounting. ASB hangers are less rigid and versatile than ACB hangers.

FMB - Flush Mount Bars



Flush Mount Bars are best used in residential applications, fitting snug to the surface and suitable for Wood, Metal, and Drywall mounting. The flush mounted bars are static and can't be adjusted.

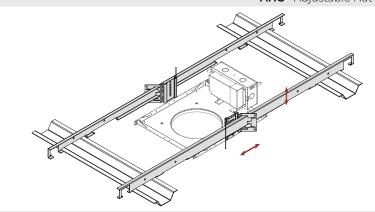
ACB - Adjustable Commercial Bar Hangers



Adjustable Commercial Bar hangers can be used in both commercial and residential applications and are by far the most versatile mounting bar we offer with its adjustability to various heights. ACB hangers are suitable for Grid Ceiling, Drywall, Metal, Wood and Frame mounting.

- · Extremely rigid
- · Fits into C-Channel notches in a Butterfly Bracket

AHC - Adjustable Hat Channel Bars



Adjustable Hat Channel bars can be used in both commercial and residential applications and come with a butterfly clip to adjust to various heights. AHC bars can be hung downward by 90 degrees in vertical position, and once wired, can be shifted onto the horizontal mounting plane. AHC bars are suitable for both Drywall and wood ceiling applications.



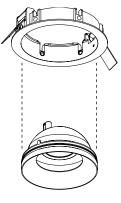


HEMIS DOWNLIGHT

Lumenwerx

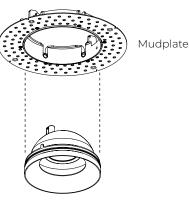
Light & Baffle

RECESSED



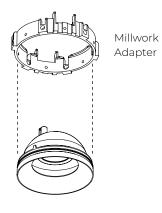
Trim





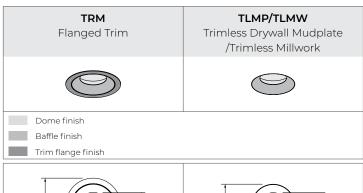
Drywall

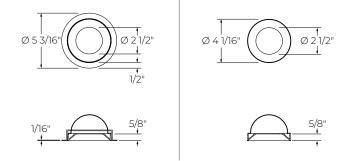
Mudplate



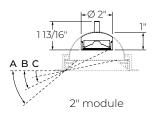
Trimless Millwork

TRIM





ADJUSTABLE MODULE & CUT-OFF/SHIELDING ANGLES



| | CUT-OFF & SHIELDING ANGLES | | | | | | | | |
|---|----------------------------|-----------|--|--|--|--|--|--|--|
| | | 2" module | | | | | | | |
| Α | SHIELDING | 40° | | | | | | | |
| В | CUT-OFF (MODULE) | 24° | | | | | | | |
| С | CUT-OFF (AMBIENT) | 12° | | | | | | | |





DOWNLIGHT RECESSED



Light source and driver combinations

Please follow the table to ensure correct driver options for light sources selected.

ADJUSTABLE MODULE - AMBIENT

SW - SW/SOLA/DUO/TRIO

| MODULE | | AMBIENT | MODULE | | AMBIENT | MODULE | | AMBIENT | MODULE | | AMBIENT |
|--------|---|---------|--------|---|---------|--------|---|-----------|--------|---|---------|
| SW/FS | | sw | SW/FS | | SOLA | SW/FS | | DUO | SW/FS | | TRIO |
| Dì | + | Dì | Dì | + | SD1 | DI | + | DDI | DMX | + | DMX |
| DA | + | DA | | | | DA | + | DDA, DDA8 | | | |
| LDE1 | + | LDE11 | | | | DMX | + | DMX | | | |
| ELD0 | + | ELD0 | | | | | | | | | |
| ELD1 | + | ELD1 | | | | | | | | | |
| DMX | + | DMX | | | | | | | | | |

¹Not available with 7 W.

SOLA - SW/SOLA/DUO/TRIO

| MODULE | AMBIENT | MODULE | AMBIENT | MODULE | AMBIENT |
|--------|---------|--------|---------|--------|---------|
| SOLA | sw | SOLA | SOLA | SOLA | DUO |
| SD1 | + D1 | SD1 | + SD1 | SD1 | + DD1 |

DUO - SW/SOLA/DUO/TRIO

| MODULE | | AMBIENT | MODULE | | AMBIENT | MODULE | | AMBIENT | MODULE | | AMBIENT |
|-----------|---|---------|--------|---|---------|-----------|---|-----------|--------|---|---------|
| DUO | | sw | DUO | | SOLA | DUO | | DUO | DUO | | TRIO |
| DD1 | + | D1 | DD1 | + | SD1 | DD1 | + | DD1 | DMX | + | DMX |
| DDA, DDA8 | + | DA | | | | DDA, DDA8 | + | DDA, DDA8 | | | |
| DMX | + | DMX | | | | DMX | + | DMX | | | |
| | | | | | | LD2 | + | LD2 | | | |

ADJUSTABLE MODULE

| SW/FS | SOLA | DUO |
|--------------|-----------------|-----------|
| D1, ELV, TRI | SD1, SELV, STRI | DD1 |
| DA | | DDA, DDA8 |
| LDEI | | DMX |
| ELD0 | | LD2 |
| ELD1 | | |

AMBIENT

| SW | SOLA | DUO | TRIO |
|------|------|-----------|------|
| D1 | SD1 | DD1 | DMX |
| DA | | DDA, DDA8 | |
| LDEI | | DMX | |
| ELD0 | | LD2 | |
| ELDI | | | |



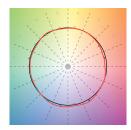


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Color Quality

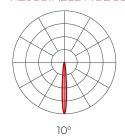


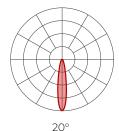


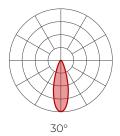
Photometrics

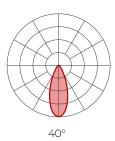
Values calculated based on 3500K and white baffle.

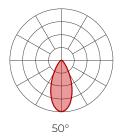
ADJUSTABLE MODULE - 2"











Delivered lumens

| CRI | RI 90 CRI | | | | 95 CRI | | | | 80 CRI | | | | | | |
|------|-----------|-----|------|------|--------|-----|-----|------|--------|------|-----|-----|------|------|------|
| BEAM | 10° | 20° | 30° | 40° | 50° | 10° | 20° | 30° | 40° | 50° | 10° | 20° | 30° | 40° | 50° |
| 10 W | 641 | 630 | 1012 | 978 | 966 | 580 | 570 | 916 | 885 | 874 | 694 | 683 | 1103 | 1068 | 1057 |
| 14 W | 828 | 814 | 1228 | 1187 | 1173 | 749 | 737 | 1112 | 1075 | 1062 | 897 | 883 | 1338 | 1297 | 1283 |

Efficacy

| CRI | 90 CRI | | | 95 CRI | | | | | 80 CRI | | | | | | |
|------|--------|-----|-----|--------|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----|-----|
| BEAM | 10° | 20° | 30° | 40° | 50° | 10° | 20° | 30° | 40° | 50° | 10° | 20° | 30° | 40° | 50° |
| 10 W | 64 | 63 | 101 | 98 | 97 | 58 | 57 | 92 | 89 | 87 | 69 | 68 | 110 | 107 | 106 |
| 14 W | 59 | 58 | 88 | 85 | 84 | 54 | 53 | 79 | 77 | 76 | 64 | 63 | 96 | 93 | 92 |

MULTIPLIERS

Please follow the multiplier tables to ensure correct lumen value.

Beams, CCT, dome colors, baffle colors, and accessories will change the lumen value.

| ССТ | | FULL SF | PECTRUM | OPTICAL OPTIONS | | | | | |
|-------|------|---------|---------|-----------------|-------------------|--|--|--|--|
| 2700K | 0.9 | FS | 0.7 | Linear spread | 0.84 | | | | |
| 3000K | 0.95 | | | Hex louver | 0.86 | | | | |
| 3500K | 1 | | | Snoot | Variable Per Beam | | | | |
| 4000K | 1.05 | | | Half snoot | Variable Per Beam | | | | |

For SOLA and DUO, please consult factory.

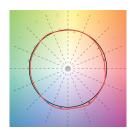






Color Quality

TM-30 R_f 91 TM-30 R_g 98.7 CRI 93.3 R9 > 50



Photometrics

Values calculated based on 3500K and white dome.

AMBIENT



| CRI | 90 CRI | 95 CRI | 80 CRI |
|------|--------|--------|--------|
| 7 W | 232 | 243 | 273 |
| 10 W | 313 | 328 | 368 |
| 13 W | 391 | 410 | 460 |

CRI 90 CRI 95 CRI 80 CRI 7 W 33 35 39 10 W 31 33 37 13 W 30 32 35

Efficacy

MULTIPLIERS

Please follow the multiplier tables to ensure correct lumen value. CCT and adjustable module configuration will change the lumen value.

Delivered lumens

| сст | |
|-------|------|
| 2700K | 0.9 |
| 3000K | 0.95 |
| 3500K | 1 |
| 4000K | 1.05 |

| CONFIGURATION WITH ADJUSTABLE MODULE | | | | | | | |
|--------------------------------------|-------|--|--|--|--|--|--|
| White | 0.72 | | | | | | |
| Black | 0.44 | | | | | | |
| | White | | | | | | |

*This is the light loss factor on the ambient portion of the light when there is a module as an obstruction. The multiplier is with the ambient light on, and the module light off.

For SOLA and DUO, please consult factory.

Multiply together each applicable factor for CCT and adjustable module configuration to determine the final multiplier for the ambient light portion of your fixture.

CCT \times Configuration with adjustable module = FINAL MULTIPLIER











Technical Specifications

OPTIC

Adjustable Module

HyflexTM optics provide precise optical control in a remarkably compact form. The core of this four-tier system is a compound reflector with a central TIR element, just 1.06" deep. Beam smoothing discs perfect beam angles up to 50°. Beam angles are easily interchanged in the field.

Ambient

Hemi can deliver soft ambient light with or without additional light modules. The ambient array can emit values up to 630 lumens and can be controlled separately or in conjunction with the light modules. You can use Trio to play with color and Sola or Duo to tune your white light.

LIGHT SOURCE

Adjustable Module

Compact COB (Chip-On-Board) LED module, available in 2700K, 3000K, 3500K and 4000K with a choice of 80 CRI, 90 CRI, or 95 CRI, with elevated R9 value for 90 CRI and above. Color consistency is maintained to within 2 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated. Optional full spectrum LEDs can be incorporated in the fixture to increase Cyanosis Observation Index (COI) and assist in regulating circadian rhythms.

Ambient

Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K and 4000K with a choice of 80 CRI, 90 CRI, or 95 CRI, with elevated R9 value for 90 CRI and above. Color consistency maintained to within 3 SDCM. LEDs operate at reduced drive current to optimize efficacy and lumen maintenance. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

Chromawerx SOLA

Chromawerx SOLA is single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple analog control adjusts a specially populated LED array to emulate the effect of dimming a filament source.

Chromawerx DUO

Chromawerx DUO offers a two-channel control system which uses analog or digital protocols for synchronous control of both cool (6500K) to warm (2700K) LED arrays - maintaining a CRI above 90. The range of color DUO offers is useful for entraining circadian rhythms, stimulating alertness, and compensating for jet lag among other applications. The Chromawerx drivers are programmed to limit maximum light output and power usage across all color temperatures. When paired with DALI drivers (DDA/DDA8), color tuning follows a linear dimming curve.

Chromawerx TRIO

Chromawerx TRIO is our 3-channel control of an RGB (red-greenblue) array provided in the Soft Ambient of the HEMI S and HEMI L fixtures. TRIO addresses the need for more expressive color in architectural applications by using the DMX protocol to support dynamic multi-hued color. While a typical user interface will be a DMX controller by others, Lumenwerx offers a simple control station for stand-alone color changing applications.

ELECTRICAL

Unless otherwise specified, dimming down to 1%. At maximum driver load: efficiency>84%, PF>0.9, THD<20%.

Integral: 0-10V, ELV, TRIAC, Lutron Hi-Lume 1% EcoSystem, DALI, eldoLED 0.1% SOLOdrive 0-10V, eldoLED 1% ECOdrive 0-10V, DMX, Lutron DALI-2 digital

PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.









CONSTRUCTION

Housing

For new construction, 22 gauge galvanized steel, open frame, non-IC rated. 18 gauge galvanized steel junction box with ½" trade size knockouts. Adjustable hanger bars and butterfly brackets are included. Adjustable commercial hat channel and flush mounted brackets are also available.

Light element

Adjustability: Hot aiming, 355° rotation and 30° vertical tilt with shift to ensure beam stays centered.

LED module: Integral COB module. 90 CRI and 2 SDCM, Standard with options of 80 CRI, or 95 CRI. L80 > 60,000 hours

HyFlex™ optics: Proprietary TIR/reflector with field interchangeable beam smoothing lenses.

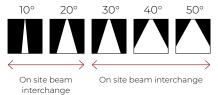
Thermal management: Die casted aluminum heat sink and efficient thermal padding to maximize dissipation.

Trim: Die-cast aluminum mounted with retaining spring clips **Trim style:** Trimmed and trimless with mudplate or millwork adapter

WEIGHT

Open frame: 4.8 lbs - 2.2 kg **Remodel**: 2.0 lbs - 0.9 kg

BEAM ANGLES



OPTICAL OPTIONS









Half snoot

ENVIRONMENT

Ambient temperature at fixture location shall be within 0°C/32°F - 25°C/77°F, indoor dry or damp as well as outdoor damp use (canopies or marquees).

CERTIFICATION

ETL: Rated for Indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

