HALO COMMERCIAL
HC6 Series Training Guide
6” LED Downlight and Wall Wash

June 4, 2019
Halo Commercial HC6 Series
6-inch LED Downlights
Halo Commercial HC6 – System View
6-inch LED Downlights

3-PART ORDERING STRUCTURE

1. Housing - mounting frame
   a. 1000-1500-2000-3000-4000 lumen selection options

2. LED Module – low or high lumen (per mounting frame selected)
   a. Low lumen 1000-1500-2000 lm and High lumen 3000-4000 lm
   b. 80 or 90 CRI and 2700K, 3000K, 3500K, or 4000K

3. Reflectors: Narrow, Medium, Wide beam options, and Wall Wash
   a. Finish: Specular Clear, Semi-Specular Haze, White, White Baffle, Black Baffle
Halo Commercial HC6
6-inch LED Downlights

CCT options in 80CRI or 90CRI

2700K 3000K 3500K 4000K

Lumen Options

Nominal values for 15-20 footcandles at nadir.
Halo Commercial HC6 – Feature Specs
6-inch LED Downlights

1. Housing - Mounting Frame
   a. Boat-shaped for new construction or remodeling
   b. Plaster lip pre-set 1/2", adjusts for ceilings up to 1-1/2" thick

2. No Fuss Bar Hangers™
   a. Pre-installed and centered mounting bars
   b. Bars lock T-grid with screwdriver or pliers, and have holes for sheet metal screws

3. Adjustable Mounting Brackets
   a. Brackets adjust 2" vertically and remove for remodel installation
   b. Brackets work with the included “No Fuss” bars or 1/2" EMT

4. Junction box
   a. Listed for (8) #12 AWG 90° C conductors (4-in/4-out)
   b. Listed for feed through branch wiring
   c. (3) 1/2" and (2) 3/4" trade size pry-outs
   d. Low voltage barrier section for 0-10V dimming wires
   e. (3) 4-port push wire nuts (1-port is fixture connection)
Halo Commercial HC6 – Feature Specs
6-inch LED Downlights – LED Driver (on Frame)

5. LED Driver – Pre-installed on housing frame
   a. 120V-277V, Universal voltage, 50/60Hz
   b. “D010” Standard 0-10V analog 1% dimming driver
   c. Fixed lumen output
      i. Lumens are selected when ordering the mounting frame
      ii. 10 = 1000 lm (IC and Non-IC rated)
      iii. 15 = 1500 lm (IC and Non-IC rated)
      iv. 20 = 2000 lm (IC and Non-IC rated)
      v. 30 = 3000 lm (Non-IC rated)
      vi. 40 = 4000 lm (Non-IC rated, and not for use w/ 61PS polymer trim)
   d. Example frame model number
      i. HC615D010 =
      i. 6-inch frame with 1500 lumen driver
6. LED Module – HM6 ordered separately
   a. Low or high lumen module (selected per the mounting frame lumens)
      i. HM612 = Low lumen 1000-1500-2000 lm
      ii. HM624 = High lumen 3000-4000 lm
   b. Color Rendering Index
      i. 8 = 80 CRI
      ii. 9 = 90 CRI
   c. Correlated Color Temperature
      i. 27 = 2700K
      ii. 30 = 3000K
      iii. 35 = 3500K
      iv. 40 = 4000K
   d. Example LED module model number
      i. HM612835
         i. 6-inch LED module, 80 CRI, 3500K
         ii. Use with 1000, 1500, 2000 lm HC6 frames
Halo Commercial HC6 – Feature Specs
6-inch LED Downlights – Reflectors

7. Reflectors – 61 series
   a. Self-flanged, downlight & wall wash
      i. C = Specular Clear, polished flange
      ii. H= Semi-Specular Haze, polished flange
      iii. W = Matte White, white flange
      iv. BB = Black Baffle, white flange
      v. WB = White Baffle, white flange
      vi. “WF” white flange option: Specular, Semi-Specular
   b. Narrow – Medium – Wide beam distribution options
      a. ND = Narrow, MD = Medium, WD = Wide
      b. RWW = Rotatable lensed wall wash
   c. PS = Non-conductive matte white polymer reflector, medium
      i. Meet codes and specifications for “dead front” trim

<table>
<thead>
<tr>
<th>Code</th>
<th>Distribution</th>
<th>Spacing Criteria</th>
<th>Beam Angle*</th>
</tr>
</thead>
<tbody>
<tr>
<td>ND</td>
<td>Narrow</td>
<td>0.97</td>
<td>55°</td>
</tr>
<tr>
<td>MD</td>
<td>Medium</td>
<td>1.10</td>
<td>60°</td>
</tr>
<tr>
<td>WD</td>
<td>Wide</td>
<td>1.28</td>
<td>65°</td>
</tr>
</tbody>
</table>

*Nominal w/ specular reflector, other finishes & field results may vary

x = ND, MD, WD beam distribution
Halo Commercial HC6 – Feature Specs
6-inch LED Downlights – EM & Connected Options

8. Emergency backup - factory installed (use with “D010” driver)
   a. Remote emergency battery backup 7W or 14W, remote test switch
   b. Integral emergency battery backup 7W or 14W, integral test switch

9. DLVP distributed low voltage power system – factory installed
   a. “DLV” low voltage dimming driver (“DLV” replaces “D010” driver)
   b. Remote & integral emergency options available in DLV
   c. 300W or 600W LV power supply & pre-terminated cables (order separately)

10. Connected lighting - factory installed (use with “D010” driver)
    a. LumaWatt Pro: “LWPD1” controller, tile mount wireless sensor
    b. WaveLinx: “SWPD1” relay w/ 0-10V dimming, tile mount wireless sensor

DLVP Saves up to 40%
LumaWatt Pro control & sensor
WaveLinx relay & sensor
Halo Commercial HC6 – New Construction
Ordering with Standard 0-10V Dimming Driver

<table>
<thead>
<tr>
<th>HOUSING</th>
<th>HC6</th>
<th>15</th>
<th>D010</th>
<th>REM7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumens</td>
<td>Driver</td>
<td>Options</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HC6 = 6&quot; new construction and remodeler frame</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HC6CP = 6&quot; Chicago Plenum new construction and remodeler frame</td>
<td></td>
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</tr>
</tbody>
</table>
| Fixed, Factory Set | D010 = 120 - 277V 50/60Hz 0 – 10V 1% -100% dimming | REM7 = 7W Remote Emergency battery w/ remote indicator & test switch (D010 only) ¹  
REM14 = 14W Remote Emergency battery w/ remote indicator & test switch (D010 only) ¹  
IEM7 = 7W Integral Emergency battery w/ integral indicator & test switch (D010 only) ¹  
IEM14 = 14W Integral Emergency battery w/ integral indicator & test switch (D010 only) ¹  
| D010 |  
| 120 - 277V 50/60Hz 0 – 10V 1% -100% dimming |  
| 15 = 1500 lumens (nominal), use w ith HM612 module |  
| 20 = 2000 lumens (nominal), use w ith HM612 module |  
| 30 = 3000 lumens (nominal), use w ith HM634 module |  
| 40 = 4000 lumens (nominal), use w ith HM634 module |  
| Footnote: ¹ Not available in Chicago Plenum |  
|  
| LWTPD1 = Factory installed LumaWatt Pro tile mount sensor kit (D010 only) ¹  
SWPD1 = WaveLinx tile mount sensor kit (D010 only) ¹  
SWPD1 = WaveLinx tile mount sensor kit (D010 only) ¹  
SWPD1 = WaveLinx tile mount sensor kit (D010 only) ¹  
|  

<table>
<thead>
<tr>
<th>MODULE</th>
<th>HM6</th>
<th>12</th>
<th>835</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumens</td>
<td>CRI / CCT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HM6 = 6&quot; LED module. Use with 61 series reflectors only.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 = 1000, 1500, 2000 lumens (nominal) Use with HC610*, HC615*, HC620* frames only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34 = 3000, 4000 lumens (nominal) Use with HC630*, HC640* frames only</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 827 = 80CRI / 2700K  
830 = 80CRI / 3000K  
835 = 80CRI / 3500K  
840 = 80CRI / 4000K  
927 = 90CRI / 2700K  
930 = 90CRI / 3000K  
935 = 90CRI / 3500K  
940 = 90CRI / 4000K |  

| ACCESSORIES |  
| HB128APK = L channel hanger bar, 26", "No-Fuss" pair (replacement) |  
| RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long |  
| H347 = Step down transformer 347V input, 75VA max |  
| H347200 = Step down transformer 347V input, 200VA max |  
| PORLWTPD1 = Field installed LumaWatt Pro Sensor kit (D010 only) |  
| TMSWPD1 = Field installed WaveLinx sensor kit (D010 only) |  

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### HOUSING

<table>
<thead>
<tr>
<th>Housing</th>
<th>Lumens</th>
<th>Driver* Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HC6 = 6&quot; new construction and remodeler frame</td>
<td>10 = 1000 lumens (nominal), use with HM612 module</td>
<td><strong>DLV</strong> = distributed low voltage dimming (1%-100%) driver</td>
</tr>
<tr>
<td></td>
<td>15 = 1500 lumens (nominal), use with HM612 module</td>
<td>For use with Eaton’s DLVP system only</td>
</tr>
<tr>
<td></td>
<td>20 = 2000 lumens (nominal), use with HM612 module</td>
<td>Refer to DLVP low-voltage power module &amp; DLVP specifications for details</td>
</tr>
<tr>
<td></td>
<td>30 = 3000 lumens (nominal), use with HM634 module</td>
<td><strong>REMV7</strong> = 7W Remote Emergency battery w/ remote indicator &amp; test switch (DLV only)</td>
</tr>
<tr>
<td></td>
<td>40 = 4000 lumens (nominal), use with HM634 module</td>
<td><strong>REMV14</strong> = 14W Remote Emergency battery w/ remote indicator &amp; test switch (DLV only)</td>
</tr>
</tbody>
</table>

#### Footnote:
1. Not available in Chicago Plenum
2. ULus Listed U.S. only

### MODULE

<table>
<thead>
<tr>
<th>Module</th>
<th>Lumens</th>
<th>CRI / CCT</th>
</tr>
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<tbody>
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<td>HM6</td>
<td>12 = 1000, 1500, 2000 lumens (nominal) Use with HC610*, HC615*, HC620* frames only</td>
<td><strong>827 = 80CRI/ 2700K</strong></td>
</tr>
<tr>
<td></td>
<td>34 = 3000, 4000 lumens (nominal) Use with HC630*, HC640* frames only</td>
<td><strong>830 = 80CRI/ 3000K</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>835 = 80CRI/ 3500K</strong></td>
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<tr>
<td></td>
<td></td>
<td><strong>840 = 80CRI/ 4000K</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>927 = 90CRI/ 2700K</strong></td>
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<tr>
<td></td>
<td></td>
<td><strong>930 = 90CRI/ 3000K</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>935 = 90CRI/ 3500K</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>940 = 90CRI/ 4000K</strong></td>
</tr>
</tbody>
</table>

### ACCESSORIES

- **HB128APK** = L channel hanger bar, 26", ‘No-Fuss’, pair (replacement)
- **RMB22** = Adjustable wood joist mounting bars, pair, extend to 22” long
- **H347** = Step down transformer 347V input, 75VA max
- **H347200** = Step down transformer 347V input, 200VA max

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## Halo Commercial HC6 – 6-inch LED Downlight
### Ordering - Reflectors

<table>
<thead>
<tr>
<th>Reflector</th>
<th>Distribution Type</th>
<th>Finish</th>
<th>Flange</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reflector</strong> 61 = 6&quot; reflector</td>
<td>ND = narrow 55° beam*, 0.97SC MD = medium 60° beam*, 1.10SC WD = wide 65° beam*, 1.28SC RWW = wide beam wall wash with rotatable linear spread lens</td>
<td>C = specular clear H = semi-specular haze W = white</td>
<td>Blank = polished flange on C &amp; H Blank = White flange on W WF = white flange option available with C &amp; H</td>
<td>61RWWPK = rotatable wall wash insert for 6&quot; reflector - replacement part kit</td>
</tr>
</tbody>
</table>

**Baffle** 61 = 6" baffle | WD = wide 65° beam*, 1.28SC RWW = wide beam wall wash with rotatable linear spread lens | BB = black baffle (white flange) WB = white baffle | Blank = white flange on BB and WB reflectors | 61RWWPK = rotatable wall wash insert for 6" reflector - replacement part kit |

**Non-Conductive** 61PS = 6" Non-conductive polymer | MD = medium 60° beam, 1.10SC | W = white | Blank = white flange on W | Note: 61PS is for Non-IC only, and up to 3000lm only |

**IEM Reflector** | Beam* Distribution | Finish | Flange | IEM Designation |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>61 = 6&quot; reflector, for Integral Emergency only</td>
<td>ND = narrow 55° beam*, 0.97SC MD = medium 60° beam*, 1.10SC WD = wide 65° beam*, 1.28SC</td>
<td>C = specular clear H = semi-specular haze W = white</td>
<td>Blank = polished flange on C &amp; H Blank = White flange on W WF = white flange option available with C &amp; H</td>
<td>IEM = reflector for integral emergency only</td>
</tr>
</tbody>
</table>

| 61 = 6" baffle, for Integral Emergency only | WD = wide 65° beam*, 1.28SC | BB = black baffle WB = white baffle | Blank = white flange on BB and WB | IEM = reflector for integral emergency only |

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*Nominal values, with specular reflector – other finishes and field results may vary*
Halo Commercial HC6 – Dimensions
6-inch LED Downlights

<table>
<thead>
<tr>
<th>Reflectors</th>
<th>Max. Height</th>
<th>Trim Height</th>
<th>LED Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narrow</td>
<td>3.97”</td>
<td>2.48”</td>
<td>3.48”</td>
</tr>
<tr>
<td>Medium</td>
<td>4.06”</td>
<td>2.57”</td>
<td>3.57”</td>
</tr>
<tr>
<td>Wide</td>
<td>3.87”</td>
<td>2.39”</td>
<td>3.39”</td>
</tr>
<tr>
<td>Baffle</td>
<td>3.87”</td>
<td>2.39”</td>
<td>3.39”</td>
</tr>
</tbody>
</table>
Halo Commercial HC6 – Dimensions
6-inch LED Downlights

<table>
<thead>
<tr>
<th>Reflector</th>
<th>Max. Height</th>
<th>Trim Height</th>
<th>LED Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narrow</td>
<td>6.27”</td>
<td>2.48”</td>
<td>3.48”</td>
</tr>
<tr>
<td>Medium</td>
<td>6.36”</td>
<td>2.57”</td>
<td>3.57”</td>
</tr>
<tr>
<td>Wide</td>
<td>6.17”</td>
<td>2.39”</td>
<td>3.39”</td>
</tr>
<tr>
<td>Baffle</td>
<td>6.17”</td>
<td>2.39”</td>
<td>3.39”</td>
</tr>
</tbody>
</table>
Halo Commercial – 6-inch LED Downlight Series
Quick Reference Specs

**Electrical**
- UNV 120-277V, 0-10V analog dimming driver dims to 1%
- Factory installed emergency options:
  - 7W or 14W battery backup
  - Remote or integral test switch (REM only on retrofit kits)

**Frame Mechanical**
- Frame: “boat-shaped” allowing new construction or remodel
- Preinstalled “No Fuss” bars, and bar brackets also accept EMT
- Remodel conversion: remove bar brackets for boat-shaped frame to install from below the ceiling

**Color Lumens**
- Color temperatures: 2700K, 3000K, 3500K, 4000K -- 80CRI or 90CRI
- Lumen options (based on housing lumens selected):
  - Low lumen range: 1000, 1500, or 2000 lm
  - High lumen range: 3000 or 4000 lm

**Connected Lighting**
- Factory installed connected lighting options:
  - LumaWatt Pro wireless sensor - daylight, motion, heat, asset tracking
  - WaveLynx wireless set-up and code compliance with daylight sensing
  - DLVP - DC driver in Eaton distributed low voltage power system

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## Halo Commercial – 6-inch LED Downlight Series
### Quick Reference Specs

<table>
<thead>
<tr>
<th>Reflectors</th>
<th>Mechanical</th>
<th>Optical</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Optics optimize delivered lumens in greater efficiency of lower W/Sq.Ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Nominal Narrow 55° (0.97SC), Medium 60° (1.10SC), Wide 65° (1.28SC)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Exclusive rotatable linear spread lens wall wash</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Non-Conductive “dead front” polymer reflector</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reflectors</th>
<th>Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Specular Clear, Semi-Specular Haze, White, White Baffle, Black Baffle</td>
<td></td>
</tr>
<tr>
<td>• Polished flange on specular, semi-specular</td>
<td></td>
</tr>
<tr>
<td>• White flange “WF” option on specular, semi-specular</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accessory</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Replacement part kit - Linear spread lens wall wash insert for 61RWW rotatable wall wash trims</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Listings</th>
</tr>
</thead>
<tbody>
<tr>
<td>• cULus Listed / Classified damp &amp; wet listed in protected ceilings</td>
</tr>
<tr>
<td>• Energy Star – certified light fixtures database</td>
</tr>
<tr>
<td>• Can be used for T24 Part 6 residential 1000lm, 1500lm, 2000lm ICAT, 90CRI</td>
</tr>
<tr>
<td>• T24 Part 6 non-residential 3000lm, 4000lm, non-IC only, 80 or 90 CRI</td>
</tr>
</tbody>
</table>

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Halo Commercial HC56R & HC6R
6-inch LED Retrofit Downlights
1. Frame/collar HC56R & HC6R
   a. HC56 retrofits 5.875” (5-7/8”) to 6.625” (6-9/16”) nominal aperture
   b. HC6R retrofits 6.625” (6-5/8”) to 7.0” (7-0”) nominal aperture
   c. Galvanized steel collar 2” thick
2. Mouse-trap style spring clips - 2
   a. Pre-installed springs
   b. Alternate positioning slots for varying ceiling thickness
3. Junction box
   a. Listed for (8) #12 AWG 90° C conductors (4-in/4-out)
   b. Listed for through-branch wiring
   c. (3) 1/2" and (2) 3/4" trade size pryouts
   d. Low voltage barrier section for 0-10V dimming wires
   e. (3) 4-port push wire nuts (1-port is fixture connection)
Halo Commercial HC56R & HC6R – Feature Specs
6-inch LED Retrofit Downlights

4. LED Driver –
   a. Pre-installed on junction box with whip for LED module connection
   b. 120V-277V, Universal voltage, 50/60Hz
   c. “D010” Standard 0-10V analog 1% dimming driver
   d. Retrofit kit fixed lumen output
      i. Lumens are selected when ordering the frame/collar
      ii. 10 = 1000 lm (IC and Non-IC rated)
      iii. 15 = 1500 lm (IC and Non-IC rated)
      iv. 20 = 2000 lm (Non-IC rated)
      v. 30 = 3000 lm (Non-IC rated)
      vi. 40 = 4000 lm (Non-IC rated)
   d. Example frame model number
      i. HC6R15D010 =
         i. 6-inch retrofit frame/collar with 1500 lumen driver
Halo Commercial HC56R & HC6R – Feature Specs

6-inch LED Retrofit Downlights

6. LED Module – HM6R ordered separately
   a. Low or high lumen module (selected per the mounting frame lumens)
      i. HM6R12 = Low lumen 1000-1500-2000 lm
      ii. HM6R34 = High lumen 3000-4000 lm
   b. Color Rendering Index
      i. 8 = 80 CRI
      ii. 9 = 90 CRI
   c. Correlated Color Temperature
      i. 27 = 2700K
      ii. 30 = 3000K
      iii. 35 = 3500K
      iv. 40 = 4000K
   d. Example LED module model number
      i. HM6R12835 =
         i. 6-inch retrofit LED module, 80 CRI, 3500K
         ii. Use w/1000, 1500, 2000 lm HC6R or HC56R retrofit kit)
Halo Commercial HC56R & HC6R – Feature Specs
6-inch LED Retrofit Downlights

7. Reflectors – 62R retrofit series
   a. Self-flanged, downlight
      i. C = Specular Clear w/ polished flange
      ii. H = Semi-Specular Haze - w/ polished flange
      iii. W = Matte White – w/ white flange
      iv. “WF” white flange option on Specular, Semi-Specular
   b. Medium beam distribution

<table>
<thead>
<tr>
<th>Beam Distribution*</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 Inch</td>
</tr>
<tr>
<td>SC</td>
</tr>
<tr>
<td>Beam*</td>
</tr>
</tbody>
</table>

SC = Spacing Criteria
*Nominal with specular reflector – other finishes & field results may vary

62RMDC Specular Clear
62RMDH Semi-Specular (Haze)
62RMDW White
8. Emergency backup - factory installed
   a. Use with standard “D010” driver
   b. Remote emergency battery backup 7W or 14W, remote test switch

9. Connected lighting - factory installed
   a. Use with standard “D010” driver
   b. LumaWatt Pro: “LWPD1” controller, tile mount wireless sensor
   c. WaveLinx: “SWPD1” relay w/ 0-10V dimming, tile mount wireless sensor
## Halo Commercial HC56R & HC6R – Retrofit Kits

### Ordering with Standard 0-10V Dimming Driver

<table>
<thead>
<tr>
<th>HOUSING</th>
<th>HC56R</th>
<th>15</th>
<th>D010</th>
<th>REM7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HC56R</td>
<td>6” retrofit kit for 5.875” (5-7/8”) to 6.625” (6-5/8”) nominal ceiling cutout aperture existing open frame housings</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HC6R</td>
<td>6” retrofit kit for 6.625” (6-5/8”) to 7.0” (7”) nominal ceiling cutout aperture existing open frame housings</td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Lumens</th>
<th>Driver</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed, Factory Set 10 = 1000 lumens (nominal), use with HM6R12 module</td>
<td></td>
<td></td>
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<tr>
<td>15 = 1500 lumens (nominal), use with HM6R12 module</td>
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<tr>
<td>20 = 2000 lumens (nominal), use with HM6R12 module</td>
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</tr>
<tr>
<td>30 = 3000 lumens (nominal), use with HM6R34 module</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40 = 4000 lumens (nominal), use with HM6R34 module</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HM6R</th>
<th>12</th>
<th>835</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module</td>
<td>Lumens</td>
<td>CRI / CCT</td>
</tr>
<tr>
<td>HM6R</td>
<td>6” retrofit LED module. Use with 62R series retrofit reflectors only. Compatible with HC56R &amp; HC6R retrofit kits only</td>
<td></td>
</tr>
<tr>
<td>12 = 1000, 1500, 2000 lumens (nominal) Use with HC56R10*, HC56R15*, HC56R20, HC6R10*, HC6R15*, HC6R20* retrofit kits only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>34 = 3000, 4000 lumens (nominal) Use with HC56R30*, HC56R40*, HC6R40*, HC6R40* retrofit kits only</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### ACCESSORIES

| PORLWTPD1 = Field installed LumaWatt Pro Sensor kit (D010 only) |
| SWPD1 = WaveLinx tile mount sensor kit (D010 only) |

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### Halo Commercial HC56R & HC6R – Retrofit Kits Ordering - Reflectors

<table>
<thead>
<tr>
<th>Reflector</th>
<th>Beam Distribution*</th>
<th>Finish</th>
<th>Flange</th>
<th>Accessories</th>
</tr>
</thead>
</table>
| 62R= 6” reflector for use with HC56R & HC6R retrofit kits only, compatible with HM6R LED modules only | MD = medium 55° beam*, 1.04SC | C = specular clear  
H = semi-specular haze  
W = white | Blank = polished flange on C & H  
Blank = White flange on W  
WF = white flange option available with C & H |  |

*Nominal with specular reflector – other finishes & field results may vary*
Halo Commercial HC56R – Dimensions
6-inch LED Retrofit Downlights

HC56R12 - LOW LUMEN
1000 lm, 1500, 2000 lm

<table>
<thead>
<tr>
<th>Reflector</th>
<th>Max. Height</th>
<th>Trim Height</th>
<th>LED Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium</td>
<td>4.06”</td>
<td>2.57”</td>
<td>3.57”</td>
</tr>
</tbody>
</table>

RETROFIT - LOW LUMEN
1000, 1500, AND 2000 LUMENS

- 4.18” [106.28mm] (trim height)
- 5.24” [133.21mm] (reflector inner aperture)
- 6.625” [168.28mm] (ceiling cut-out)
- 8.04” [204.10mm] (trim flange)
- 4.35” [110.49mm] (max. height)
- 5.09” [129.16mm] (LED height)
- 5” [12.70mm] (ceiling thickness)
Halo Commercial HC56R – Dimensions
6-inch LED Retrofit Downlights

HC56R34 - HIGH LUMEN
3000lm, 4000lm

<table>
<thead>
<tr>
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<th>Max. Height</th>
<th>Trim Height</th>
<th>LED Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium</td>
<td>6.36”</td>
<td>2.57”</td>
<td>3.57”</td>
</tr>
</tbody>
</table>

*Reflector Height*: 7.13” (181.1mm) (max. height)

- **Trim Height**: 4.18” (106.28mm) (trim height)
- **LED Height**: 5.24” (133.21mm) (reflector inner aperture)
- **Ceiling Cut-out**: 6.625” (168.28mm) (ceiling cut-out)
- **Trim Flange**: 8.04” (204.10mm) (trim flange)

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Halo Commercial HC6R – Dimensions
6-inch LED Retrofit Downlights

HC6R12 - LOW LUMEN
1000lm, 1500, 2000lm

<table>
<thead>
<tr>
<th></th>
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RETROFIT - LOW LUMEN
1000, 1500, AND 2000 LUMENS

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Halo Commercial HC6R – Dimensions
6-inch LED Retrofit Downlights

HC6R34 - HIGH LUMEN
3000lum, 4000lum

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</tbody>
</table>

RETROFIT - HIGH LUMEN
3000 AND 4000 LUMENS

- 4.18” [106.28mm] (trim height)
- 5.24” [133.21mm] (reflector inner aperture)
- 7” [177.80mm] (ceiling cut-out)
- 8.04” [204.10mm] (trim flange)
- 4.35” [110.49mm] (max. height)
- 7.13” [181.1mm] (max. height)
- 0.5” [12.70mm] (ceiling thickness)
Dimmer / PIR Occupancy Sensor
Occupancy or Vacancy
0-10V Dimmer 120/277V

Decorator Dimmer
0-10V Dimmer 120/277V

Slide Dimmer
0-10V Dimmer 120/277V

Color Kits
Lt. Almond, White, Ivory
Black, White, Gray

Greengate Wallbox Dimmers & Sensors
- 0-10V dimmers
- Sensor technology options
- Passive Infrared
- Ultrasonic
- Dual Technology
- Daylighting (-R/MV/DMV models) limit lighting when room is lit by sunlight

Brochure: Wallbox Controls Line Card
Resources>Library>Literature>Controls

Ultrasonic Occupancy Sensor
120/277V

Dual Technology
Occupancy & Vacancy
120/277V
Greengate Room Controller

- Three output relays
- Three 0-10 VDC dimming outputs
- Each 0-10V output supports up to 50 dimming drivers sourcing 2mA
- 120/277V, 20A input
- Wallstations, occ./vac. sensors, daylight sensors, receptacle controllers
- Connect via QuickConnect Class 2 cables to room controller
Halo Commercial – Connected Lighting Controls
DLVP System w/ factory installed DLV driver

DLVP System
• DLV factory installed driver
• DLVP System low voltage power supply
  • Order separately
  • Powers the HC6 low voltage driver
  • 300W or 600W power supply units
  • Note max wattage limit per run
  • Plenum rated enclosure
  • Addressable w/ accessory remotes
  • Dimming 1% to 100%
• Plenum rated pre-terminated cables
  • Order separately
  • Supply power & communications

Benefits
• Simplified installation and configuration
• Up to 40% lower labor install hours
• Up to 20% lower installed system cost
• Tile mount daylight and occupancy sensors

Brochure: Distributed Low Voltage Power System
Resources>Library>Literature>Connected Systems

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WaveLinx

- Tile mount daylight sensor and control unit
- Control unit includes 120-277VAC 3amp relay pack with 0-10V dimming control
- Control relay mounts to fixture junction box

Benefits

- Reduces commissioning time 40%
- Automatic code commissioning meets or exceeds code requirements
- Mobile app for building managers to easily adjust settings

Factory Installed

- SWPD1 = WaveLinx factory kit (ordered with the housing frame)

Field Installed Accessory Kit

- TMSWPD1 = WaveLinx field installed kit (order separately)
Halo Commercial – Connected Lighting Controls
LumaWatt Pro w/ factory installed LWP kit

**LumaWatt Pro with Enlighted**
- Tile mount sensor and control unit
- Monitor real time occupancy, light levels, temperatures and energy usage

**Factory Installed**
- LWTPD1 = LumaWatt factory kit (ordered with the housing frame)

**Field Installed Accessory Kit**
- PORLWTPD1 = LumaWatt field installed kit (order separately)

---

**Intuitive. Intelligent. Integrated.**

**LumaWatt Pro**

**Resources** > **Library** > **Literature** > **Connected Systems**

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