

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO Commercial

HC6R | HM6R | 62R

6-inch LED retrofit regressed lens downlight

Typical Applications

Office • Healthcare • Hospitality • Institutional • Mixed-Use/Retail

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Product Certification



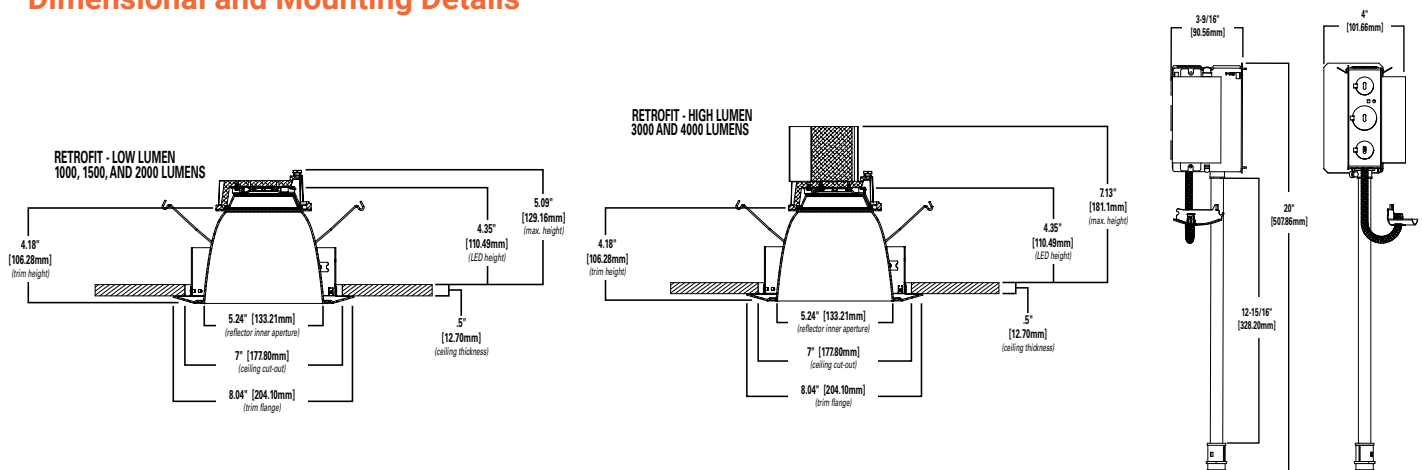
Product Features



Top Product Features

- Remodel/retrofit series; 1,000 to 4,000 lumens
- Medium beam distribution; Specular, Semi-Specular and White reflector finishes
- 2700K, 3000K, 3500K and 4000K CCT; 80 or 90 CRI
- Universal voltage 120V-277V; Standard 0-10V driver dims to 1%
- Factory installed connected lighting and emergency options

Dimensional and Mounting Details



Order Information

Sample Number : HC6R20D010 – HM6R12835 – 62RMDC

A complete luminaire consists of a frame/collar, LED module, and reflector (ordered separately)

Frame / Collar	Lumens	Input / Control	Factory Installed Options	Accessories
HC6R = 6" retrofit kit for 6.625" (6-5/8") to 7.0" (7-0") nominal ceiling cutout aperture existing open frame commercial housings	10 = 1000 lumens (nominal) 15 = 1500 lumens (nominal) 20 = 2000 lumens (nominal) 30 = 3000 lumens (nominal) 40 = 4000 lumens (nominal)	D010 =120-277VAC 50/60Hz 0-10V analog 1% - 100% dimming D010347 = 347VAC 50/60Hz 0-10V analog 1%- 100% dimming (Canada only)	REM7 = integral 7 watt emergency module with remote test / indicator light, for use with D010 only REM14 = integral 14 watt emergency module with remote test / indicator light, for use with D010 only BOD7ST = 7.5 watt Bodine self-test diagnostic emergency module with remote test / indicator light, use with D010 only WTA =Factory installed WaveLinX sensor Kit ⁽¹⁾ WTK = Factory installed WaveLinX Lite Sensor Kit ⁽²⁾	H347 = 347 to 120V step down transformer, 75VA H347200 = 347 to 120V step down transformer, 200VA sensor kit, for use with D010 driver only WTA = Field installed WaveLinX sensor Kit ⁽¹⁾ WTK = Field installed WaveLinX Lite Sensor Kit ⁽²⁾
Notes	Notes	Notes	Notes	Notes
			(1) WTA = WaveLinX tile mount sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only (Refer to WaveLinX system specifications) (2) WTK = WaveLinX Lite tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX Lite system specifications)	(1) WTA = WaveLinX tile mount sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only (Refer to WaveLinX system specifications) (2) WTK = WaveLinX Lite tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX Lite system specifications)

LED Module	Lumens	CRI/CCT
HM6R = 6" retrofit module for use for use HC6R and HC56R series retrofit kits and 62R trims only	12 =1000, 1500, 2000 lumens (nominal) Use with HC6R10*, HC6R15*, HC6R20*, HC56R10*, HC56R15*, HC56R20* mounting frames, and 62R trims only 34 =3000, 4000 (nominal) For use with HC6R30*, HC6R40*, HC56R30*, HC56R40* mounting frames, and 62R trims only	827 = 80 CRI (min), 2700K CCT 830 = 80 CRI (min), 3000K CCT 835 = 80 CRI (min), 3500K CCT 840 = 80 CRI (min), 4000K CCT 927 = 90 CRI (min), 2700K CCT 930 = 90 CRI (min), 3000K CCT 935 = 90 CRI (min), 3500K CCT 940 = 90 CRI (min), 4000K CCT
Notes	Notes	Notes

Reflector	Distribution	Finish	Flange
62R = 6" retrofit conical reflector for use HC6R and HC56R series retrofit kits only	MD = medium distribution 55° beam angle, 1.04 SC	C = Specular clear H = Semi-specular clear W = White (white flange)	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors
Notes	Notes	Notes	Notes

Product Specifications

Housing Frame/Collar

- Galvanized steel collar; 2" thick
- Accommodates open frame housing openings 6.625" (6-5/8") to 7.0" (7-0") nominal ceiling cutout aperture
- Installs with two remodel spring clips from below the ceiling

Junction Box

- Galvanized steel junction box
- Provided with armored cables for flexible connections to the LED module and existing junction box for mains voltage connections
- 20 in³ internal volume excluding voltage barrier
- 25 in³ internal total volume
- Voltage barrier for 0-10V dimming wires (occupies one 1/2" pry-out space)
- Listed for eight #12 AWG (four in, four out) 90°C conductors and feed-thru branch wiring
- Three 1/2" and two 3/4" trade size pry-outs available
- Three 4-port push wire nuts for mains voltage with 1-port for fixture connection

LED Module

- Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
- Available in 80 or 90 color rendering index (CRI)
- Color accuracy within 3 SDCM provides color consistency and uniformity
- 90 CRI option: R9>50 (refer to chromaticity information for details)
- Available in 2700K, 3000K, 3500K and 4000K correlated color temperature (CCT)
- Lumen options include 1,000, 1,500, 2,000, 3,000 and 4,000 lumens (nominal)
- Passive thermal management achieves 60,000 hours at 70% lumen maintenance (L70) in insulated ceilings (IC) and non-IC applications
- Integral diffuse lens provides visual shielding
- Integral connector allows quick connection to housing flex

Reflector

- Self-flanged aluminum reflectors available in medium distribution pattern
- Reflectors attach to LED module with three speed clamps
- Available in multiple painted or plated finishes

Reflector/Module Retention

- Reflector/module assembly is securely retained in the housing with two torsion springs

Driver

- Field-replaceable constant current driver provides low noise operation
- Universal 120-277VAC 50/60Hz input standard
- 347VAC 50/60Hz input option (Canada only)
- Continuous, 1% to 100% dimming with 0-10V analog control

Emergency Option

- Provides 90 minutes of standby lighting, meeting most life safety codes for egress lighting
- Available with integral or remote charge indicator and test switch
- Available Self-Test (self-diagnostic) with remote charge indicator and test switch

Connected Lighting System Options

Two WaveLinx connected systems to choose. Summary information provided below, refer to WaveLinx system specifications and application guides for details.

WaveLinx Wireless System Tilemount Sensor Kit

- WaveLinx Wireless WTA tile mount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

WaveLinx Lite System Tilemount Sensor Kit

- WaveLinx Lite WTK tile mount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinx Tilemount Kits Application

- The WTA and WTK tilemount kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
- The WTA and WTK tilemount kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.

Compliance

- cULus damp and wet location listed in protected ceilings
 - IP20 - Above finished ceiling; IP65 - Below finished ceiling
 - Non-Insulated ceiling (Non-IC) rated for 2,000, 3,000 and 4,000 lumen models (insulation must be kept 3" from top and sides)
 - Insulated ceiling (IC) rated for 1,000 and 1,500 lumen models and suitable for direct contact with air permeable insulation* (IC models are also suitable for Non-IC installations)
 - Airtight per ASTM-E283-04
 - Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
 - EMI/RFI emissions FCC CFR Title 47 Part 15 Class A at 120/277V
 - Contains no mercury or lead and RoHS compliant
 - Photometric testing completed in accordance of IES LM-79-08
 - Lumen maintenance projection in accordance of IES LM-80-08 and TM-21-11
 - 1,000 and 1,500 lumen, 90 CRI, ICAT models may be used to comply with State of California Title 24 residential code, per JA8 certification standards
 - May be used to comply with State of California Title 24 non-residential code as a dimmable LED luminaire
 - ENERGY STAR® certified, reference certified light fixtures database
- *Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013

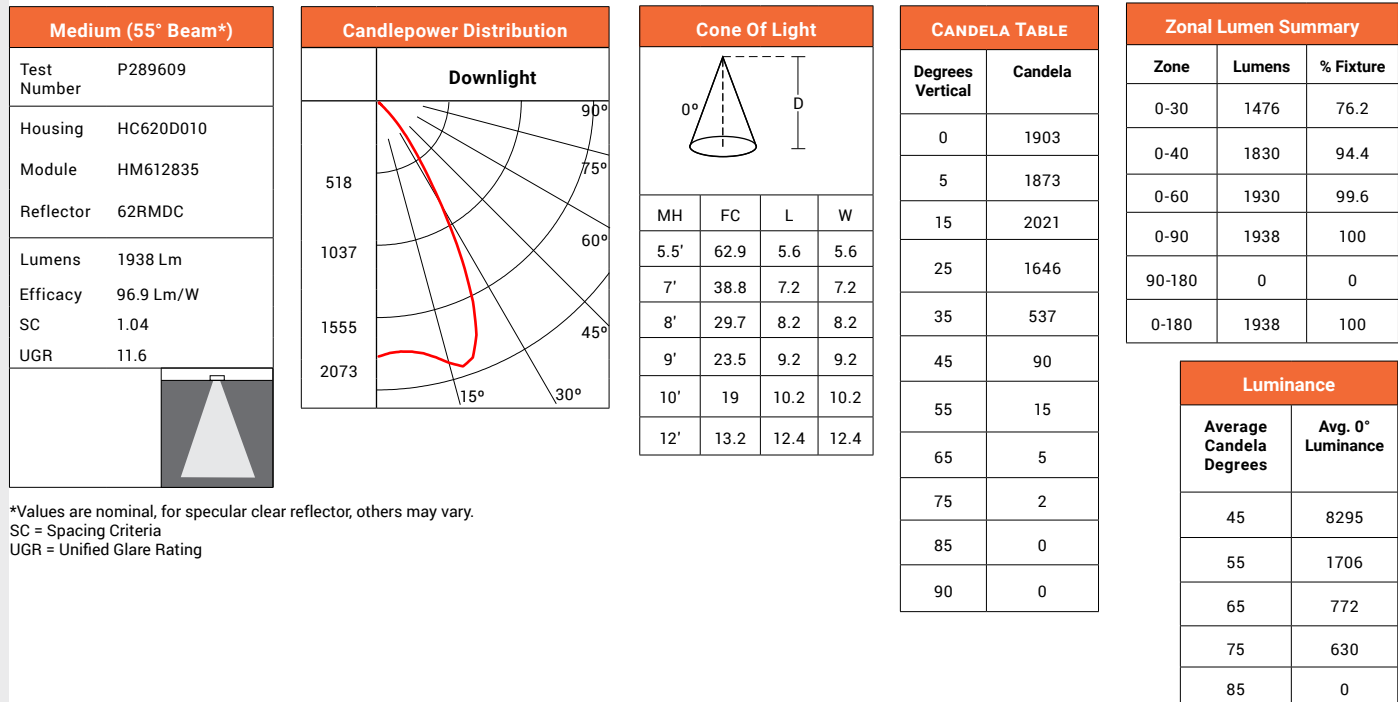
Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Photometric Data

 View IES files

MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80CRI, 3500K



Photometric Multipliers (Nominal Lumen Values)

1000 Lumen	1500 Lumen	2000 Lumen	3000 LUMEN	4000 LUMEN
0.52	0.72	1.00	1.44	2.02

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White	Black Baffle
Multiplier	1.00	0.91	0.92	0.84

Multipliers for relative lumen values with other color finishes.

CCT Multipliers - 80CRI

2700K	3000K	3500K	4000K
0.93	0.95	1.00	1.05

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers - 90CRI

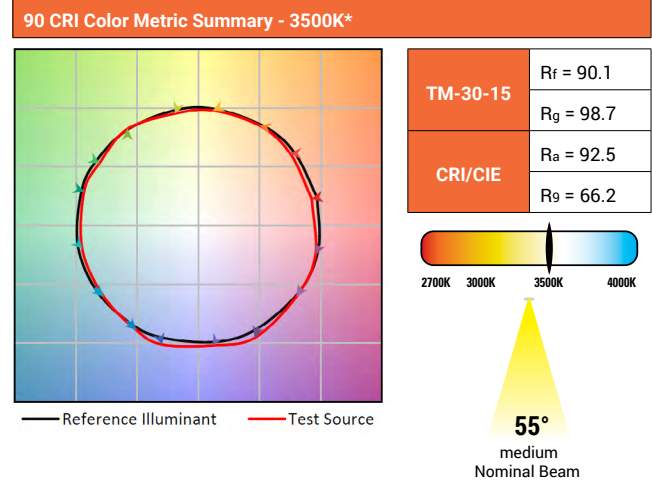
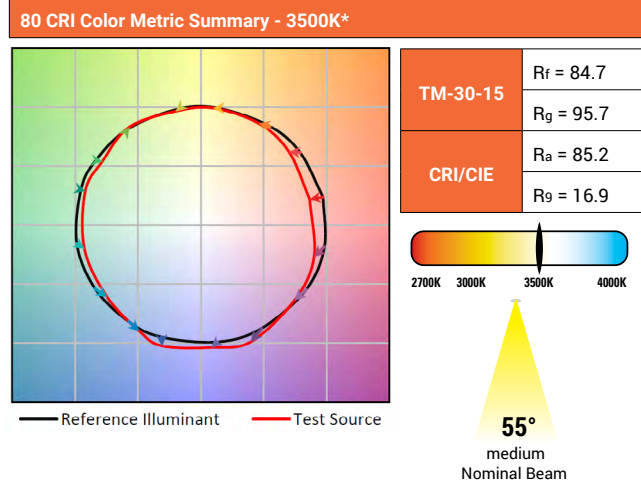
2700K	3000K	3500K	4000K
0.75	0.82	0.90	0.89

Multipliers for relative lumen values with other series color temperatures.

Note: Refer to IES files for more product data.

Energy & Performance Data

COLOR METRICS - TM-30-15 & CRI/CIE (3500K)



* Color values are based on 61WDWB reflector, other finishes and field results may vary.

Series	1000 lumen	
Input Voltage 120-277VAC	120V	277V
Input Current (A)	0.085	0.042
Input Power (W)	10.1	10.9
In-rush Current (A)	0.644	1.95
In-rush Duration (ms)	0.125	0.24
THDi (%)	8.6	15.6
PF: ≥ 0.90		
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -30°C (-22°F)*		
Sound Rating: Class A standards		

Series	1500 lumen	
Input Voltage 120-277VAC	120V	277V
Input Current (A)	0.119	0.055
Input Power (W)	14.2	14.9
In-rush Current (A)	0.212	0.85
In-rush Duration (ms)	0.28	0.32
THDi (%)	7.8	16.3
PF: ≥ 0.90		
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -30°C (-22°F)*		
Sound Rating: Class A standards		

Series	2000 lumen	
Input Voltage 120-277VAC	120V	277V
Input Current (A)	0.176	0.082
Input Power (W)	21.1	21.4
In-rush Current (A)	0.588	0.624
In-rush Duration (ms)	0.3	0.38
THDi (%)	8.8	11.2
PF: ≥ 0.90		
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -30°C (-22°F)*		
Sound Rating: Class A standards		

Series	3000 lumen	
Input Voltage 120-277VAC	120V	277V
Input Current (A)	0.228	0.102
Input Power (W)	27.2	27
In-rush Current (A)	0.898	1.7
In-rush Duration (ms)	0.36	0.38
THDi (%)	9.7	9.3
PF: ≥ 0.90		
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -30°C (-22°F)*		
Sound Rating: Class A standards		

Series	4000 lumen	
Input Voltage 120-277VAC	120V	277V
Input Current (A)	0.345	0.15
Input Power (W)	41.3	40.7
In-rush Current (A)	1.05	2.23
In-rush Duration (ms)	0.32	0.34
THDi (%)	10.06	14.01
PF: ≥ 0.90		
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -30°C (-22°F)*		
Sound Rating: Class A standards		

Notes:

* Emergency Battery packs are rated for a minimum starting temperature of 0°C.

Connected Systems

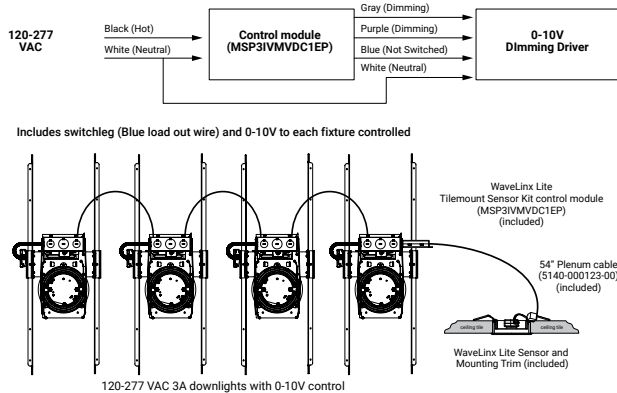
WaveLinX Lite - WTK Tilemount Sensor



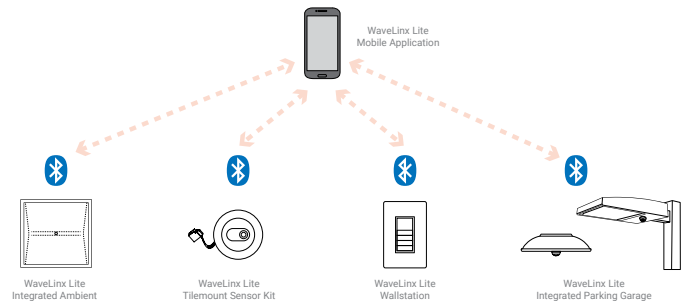
- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinX Lite Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- Refer to the WaveLinX system specifications for details



WaveLinX Lite WTK Tilemount Wiring Diagram



WaveLinX Lite Bluetooth Enabled System



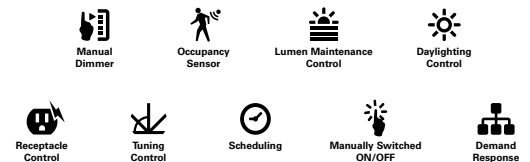
WaveLinX Wireless – WTA Tilemount Sensor



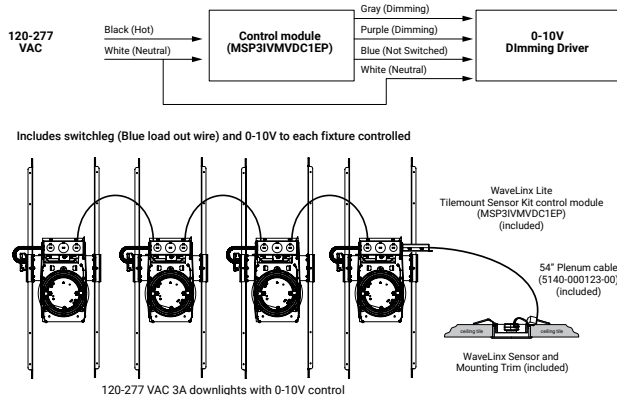
- WaveLinX Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations



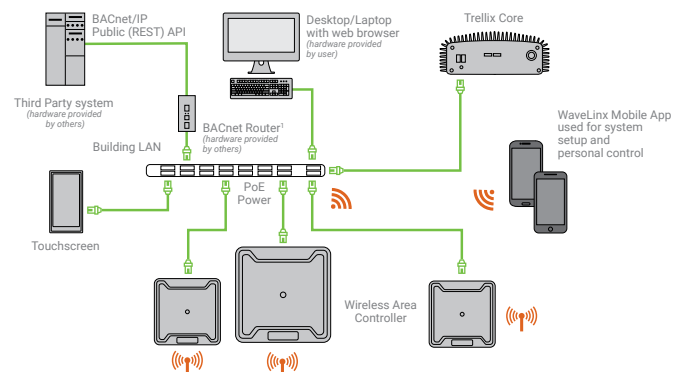
WaveLinX mobile app settings



WaveLinX Lite WTA Tilemount Wiring Diagram



WaveLinX Wireless Trellix Building Management Integration



Non - Halo Commercial Open Frame Housing*

Manufacturer	Brand	Series Open Frame Models Only	Housing Aperture
Cooper Lighting Solutions	Halo	M700T	7.0" (7-0")
Cooper Lighting Solutions	Halo	H600T	7.0" (7-0")
Acuity Brands®	Lithonia Lighting®	LF6N, LP6N, 6HF, 6VF, 6VI	7.0" (7-0")
Acuity Brands®	Juno® Elate™	A6, P6, C6, M6	6.875" (6-7/8")
Acuity Brands®	Juno®	CV6, CH6, M6, MX6, TC906	6.875" (6-7/8")
Signify N.V.	Omega Lighting	OM6	6.625" (6-5/8")
Signify N.V.	Capri Lighting	CM6	6.75" (6-3/4")
Signify N.V.	Lightolier® Lytecaster	1102P1, 1102F1, 1102FH*, 1100FT, 1102D1, 1102DH*, 1102T*, 1102HF	6.8125" (6-13/16")

*This is a representative list of non - Halo Commercial housings deemed capable of retrofit. Models must be open frame versions of the respective series. Information noted about these other manufacturers products are obtained from published information made available by the manufacturer and is deemed to be reliable, but has not been verified. The specifications of these products and their conditions of use may change without notice to Cooper Lighting Solutions or any other user. Cooper Lighting Solutions makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied.

*Installer should ensure proper local and national electrical codes are followed; and that the application and conditions of use are per these and manufacturer guidelines.

*Installer is responsible to verify mechanical, dimensional, and site conditions are suitable for proper installation of the retrofit assembly.

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