Description

The Halo ML56 LED Downlighting System is a series of modular LED Modules for use with designated 5" or 6" ML56 LED trims in new construction, remodel and retrofit installation. Compatible with Halo 5" H550 and 6" H750, H2750 Series LED housings. And in retrofit of existing housings the ML56 Series fits 5" or 6" Halo and others. ML56 Modules are offered in 600 Series, 900 Series, and 1200 Series, 90CRI, and four color temperatures 2700K, 3000K, 3500K, 4000K. ML56 Modules are universal voltage 120V – 277V and dimmable at 120V. The ML56 lens provides uniform diffuse illumination standard.

Specification Features

Mechanical

- Light Module

 Module includes LED package, LED driver,
- heat sink, and lens
 Durable die-cast aluminum construction.
- Heat sink designed to conduct heat away from the LED keeping the junction temperatures below specified maximums, including insulated ceiling environments

Lens

- Impact-resistant polycarbonate
- Convex form for lamp-like appearance
- High lumen transmission
- Diffusing for even illumination

Mounting

- Modules attach to reflector and baffle trims via locking tabs, and attach to eyeballs via keyed twist-to-lock mating bosses
- The complete module and trim assembly installs into housings with precision formed torsion springs located on the trim
- Friction Blade mounting is an alternate option using the accessory 6" Friction Blade Kit model ML56CLIP (order separately). Friction blades provide alternative to torsion springs for retrofit in 6" housings without torsion mounting tabs. ML56CLIP is compatible with 6" baffle and reflector trims only (691, 692, 693, 695, 696 series). For eyeball trim (694 series) use ML7RAB retrofit adapter band.

Housing Compatibility

A complete ML56 system includes a LED Module, LED trim, and a compatible housing (new construction, remodel, or existing retrofit). Housing compatibility in the ML56 System is determined by the ML56 trim dimensions. ML56 trims are available in 5" and 6" aperture (5" = 59xx series and 6" = 69xx series trims). Refer to Housing – Trim Section in this document.

LED

- 900 Series = 900 design lumens typical.
 Delivered lumens years depending upon l
- Delivered lumens vary depending upon 5" or 6", color temperature, and trim finish.

- Color Temperature options: 2700K, 3000K, 3500K, 4000K
- CRI: 90, R9>50
- L70 at 50,000 hours, projected in accordance with IES TM-21
- LED is a chip on board design consisting of a multiple LED package to create one virtual light source for a productive "cone of light"

Color Specification & Quality Standards

- A tight chromaticity specification to ensures LED color uniformity, sustainable Color Rendering Index (CRI) and Correlated Color Temperature (CCT) over the useful life of the LED
- LED color uniformity of 3 SDCM exceeds ENERGY STAR® color standards per ANSI C78.377- 2008.
- High color performance with 90CRI minimum, and R9 greater than 50.
- Every Halo LED Module is quality tested and performance measured, and then serialized in a permanent record to register lumens, wattage, CRI and CCT.
- Halo LED serialized testing and measurement process ensures color and lumen consistency on a per-unit basis, and validates long-term product consistency over time
- Halo ML56 LED Modules include lumen, CRI, and CCT designations in the model number Example: ML5609930
- 56 = 5" / 6" aperture series
- **09** = 900 lumen series
- 9 = >90 CRI 30 = 3000K nominal CCT

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 housings (housing selected depends upon LED trim 5" or 6").
- LED Connector meets high-efficacy luminaire requirement for a non-screw base, and where required.
- The included E26 medium screw-base Edison adapter* provides easy retrofit of incandescent housings (see Housing Section).

Ground Connection

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

LED Driver

Catalog #

Project

Comments

Prepared by

- Driver is universal voltage 120V-277V, and may be controlled from a switch in this range of main inputs (switchable at 120V, 220V, 230V, 240V, and 277V)
- Driver is dimmable at 120V operation when connected to a compatible dimmer.
- Driver is a high efficiency, electronic power supply providing DC power to the LED.
- Driver meets FCC EMI/RFI Consumer Level limits on 120V main inputs, and is compliant 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 is replaceable, if replacement should be required.

Dimming

Designed for dimming capability to nominal 5% in normal operation with standard 120V Leading Edge (LE) and Trailing Edge (TE) phase control dimmers (Consult dimmer manufacturer for dimmer compatibility and details. Note, some dimmers require a neutral in the wallbox.)

Warranty

Cooper Lighting Solutions provides a (5) five year limited warranty on the Halo ML56 LED Module.

LED Module in New or Retrofit Existing Construction – Housings other than Halo

- If used in recessed housings other than Halo the Cooper Lighting Solutions 5year limited warranty applies to the LED Module and Trim only.
- As with any electrical installation, a qualified electrician must ensure compatibility of use with a particular housing; this includes all applicable national and local electrical and building codes. Installer is responsible to properly and securely retain the LED Module and LED Trim in the housing at time of installation





ML5609927 5" or 6" LED 900 Series



ML5609930 5" or 6" LED 900 Series



ML5609935 5" or 6" LED 900 Series



ML5609940 5" or 6" LED 900 Series



ML56 LED System

900 Series / 90 CRI

ML5609927 ML5609930 ML5609935 ML5609940

5-Inch and 6-Inch 900 Lumen LED Module for New Construction, Remodel and Retrofit

For use with 59x and 69x Series Trims

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

HIGH EFFICACY LED WITH INTEGRAL DRIVER - DIMMABLE

Energy Data
ML56 900/90 Series
(Values at non-dimming line voltage)
Minimum Starting Temp: -30°C (-22°F)
EMI/RFI: FCC Title 47 CFR, Part 15, (Consumer)
Sound Rating: Class A
Input Voltage: UNV 120V-277V
Power Factor: >0.95 @ 120V and >0.9 @277V
Input Frequency: 50/60Hz
THD: <20%
Input Power: 9.4W
Input Current at 120V: 0.15A
Input Current at 277V: 0.08A
Driver Compliance: UL8750, Class II rated
Maximum IC (Insulated Ceiling) Ambient Continuous Operating Temperature: 25°C (77°F)
Maximum Non-IC Ambient Continuous Operating Temperature: 40°C (104°F)



Туре

Date

Compliance

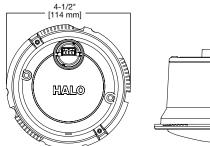
- cULus listed 1598 Luminaire (Halo housings)
- UL Classified when used in retrofit (refer to housing section)
- cULus listed for damp locations
- cULus Wet location listed with baffle and reflector trims
 only
- Airtight certified per ASTM E283 (not exceeding 2.0 CFM under 57 Pascals pressure difference)
- IP66 ingress protection rated with baffle and reflector trims only
- · RoHS compliant
- May be used in IC (insulated ceiling) housings in direct contact with insulation* and combustible material
- Can be used for California Title 24 compliance
- Can be used for International Energy Conservation Code (IECC) high efficiency luminaire compliance.
- Can be used for Washington State Energy Code compliance
- ENERGY STAR[®] certified luminaire consult ENERGY STAR[®] Certified product list
- EMI/RFI per FCC 47CFR Part 15 Class B Consumer limits (commercial and residential compliant)
- Photometric testing in accordance with IES LM-79
- Lumen maintenance projections in accordance with IES LM-80 and TM-21
- CE Mark "Conformité Européene" conformity with the Council of European Communities Directives, meeting internationally recognized compliance when used with Halo H550, H750, and H2750 Series LED housings only
- * Not for use with housings in direct contact with spray foam insulation.

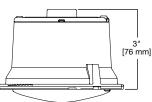


Refer to ENERGY STAR® Qualified Products List. Can be used to comply with California Title 24 High Efficacy requirements.



Dimensions







Ordering Information

Sample Number: ML5609930 593WB

Order LED Module and trim separately.

A complete system also includes a compatible housing (new construction, remodel, or existing retrofit). Housing aperture size in the ML56 System is determined by the ML56 trim dimensions. ML56 trims are available in 5" and 6" aperture (5" = 59xx series and 6" = 69xx series trims). Refer to Housing Section in this document.

000 Series / 90 CRI	ML56 LED 5" and 6" Trims	ML56 System Accessories
VIL5609927= 5"/6" LED module, 900 lumen, 90CRI, 2700K	590 Series - 5" LED Trims	ML56CLIP=Friction clip mounting kit - For retrofitting non-torsion
	591WB=5" LED trim, polymer "dead-front", shallow white baffle & flange -	spring housings, 6" clips*
ML5609935= 5"/6" LED module, 900 lumen, 90CRI, 3500K	shallow and standard housings (For use with 600 Series LED light modules only)	WW595SC=5" Wall wash insert - kick reflector for 595WW
VIL5609940= 5"/6" LED module, 900 lumen, 90CRI, 4000K	592SC=5" LED trim, specular reflector & white flange	(1-included with trim) double or corner wall wash**
ML5609D2W930= 5"/6" dim-to-warm LED module, 900	592H=5" LED trim, haze reflector & white flange	WW695SC=6" Wall wash insert - kick reflector for 695WW
umen, 90CRI, 1850K	592W=5" LED trim, white reflector & flange	(1-included with trim) double or corner wall wash**
	593WB=5" LED trim, white micro-step baffle & flange	TRM590WH=5" LED oversize trim ring for use with 59* series trims,
	593BB=5" LED trim, black micro-step baffle & white flange	white 6.3" I.D., 7.5" O.D. Ring slips over LED trim. Inset design
California non-E26 modules ¹	593SNB=5" LED trim, satin nickel micro-step baffle & flange	allows 5" trim to fit into oversize ring for an even trim surface
//L5609927-CA= 5/6" LED module, 900 lumen,	593TBZB=5" LED trim, tuscan bronze micro-step baffle & flange	TRM690WH=6" LED oversize trim ring for use with 69* series trims,
OCRI, 2700K, California non-E26	594WB=5" LED directional trim, white eyeball, baffle & flange -	white 6.9" I.D., 9.5" O.D. Ring slips over LED trim. Inset design
ML5609930-CA= 5/6" LED module,900 lumen,	shallow and standard housings	allows 6" trim to fit into oversize ring for an even trim surface
90CRI, 3000K, California non-E26	594SNB=5" LED directional trim, satin nickel eyeball, baffle & flange –	
ML5609935-CA= 5/6" LED module, 900 lumen,	shallow and standard housings	*ML56CLIP is compatible with 6" baffle and reflector trims only
90CRI, 3500K, California non-E26	594TBZB=5" LED directional trim, tuscan bronze eyeball, baffle & flange –	(691, 692, 693, 695, 696 series).
ML5609940-CA= 5/6" LED module, 900 lumen,	shallow and standard housings	For eyeball trim (694 series) use ML7RAB retrofit adapter band.
OCRI, 4000K, California non-E26	595WW=5" LED trim, wall wash - specular reflector, repositionable specular	
	kick reflector, white flange	**Wall wash trims 595WW and 695WW feature an exclusive
	${\bf 596WB}{=}5^{\circ}$ LED trim, white shallow baffle $\ \&$ flange – shallow and standard housings	repositionable kick reflector for fine-tuning adjustment of the wall wash effect. The WW595SC and WW695SC are repositionable kick reflector
	<u>690 Series - 6" LED Trims</u>	sold separately for addition to the wall wash trim when a double or
	691WB=6" LED trim, polymer "dead-front", white shallow baffle & flange –	corner wall wash is needed, or for replacement of original kick reflector
	shallow and standard housings (For use with 600 Series LED light modules only)	included with the trim.
	692SC=6" LED trim, specular reflector & white flange	
	692H=6" LED trim, haze reflector & white flange	
	692W=6" LED trim, white reflector & flange	
	693WB=6" LED trim, white micro-step baffle & flange	
	693BB=6" LED trim, black micro-step baffle & white flange	
	693SNB=6" LED trim, satin nickel micro-step baffle & flange	
	693TBZB=6" LED trim, tuscan bronze micro-step baffle & flange	
	694WB=6" LED directional trim, white eyeball, baffle & flange – shallow	
	and standard housings	
	694SNB=6" LED directional trim, satin nickel eyeball, baffle & flange –	
	shallow and standard housings	
	694TBZB=6" LED directional trim, tuscan bronze eyeball, baffle & flange –	
	shallow and standard housings	
	695WW=6" LED trim, wall wash - specular reflector, repositionable specular	
	kick reflector, white flange	
	696WB=6" LED trim, white shallow baffle & flange - for use with shallow	

Notes: 1. California product only.

Lighting Info

IN	L560992	

PRODUCT Specifications			
Lumens (Light	t Output)	890	
Watts 9.4			
Lumens Per Watt (Efficacy) 95.0			
Color Accuracy (CRI) 94			
Light Color (CCT) 2700K Correlated Color Temperature (CCT)			
Soft White	Warm White	Bright White	
2700K 3000K	4500K	6500K	
м	ODEL# ML5609927		

ML5609930

and standard housings

	RODUCT IFICATIO	NS
Lumens (Light	t Output)	953
Watts		9.4
Lumens Per Watt (Efficacy) 10		
Color Accurac	y (CRI)	94
Light Color (C Correlated Color Temperat		3000K
Soft White	Warm White	Bright White
2700K 3000K	4500K	6500K
м	ODEL# ML5609930	

ML5609935

Watts		
		9.
Lumens Per W	att (Effica	icy) 10
Color Accurac	y (CRI)	9
Light Color (C Correlated Color Temperat		3500

ML5609940

PRODUCT SPECIFICATIONS			
Lumens (Light	Output)	1041	
Watts 9.4			
Lumens Per Watt (Efficacy) 111			
Color Accuracy (CRI) 93			
Light Color (CCT) 4000K Correlated Color Temperature (CCT)			
Soft War White Whi		Bright White	
2700K 3000K	4500K	6500K	
MOD	EL# ML5609940		



Housing – Trim Compatibility

Housing compatibility in the ML56 System is determined by the ML56 trim dimensions. ML56 trims are available in 5" and 6" aperture (5" = 59xx series and 6" = 69xx series trims). Refer to ML56 TRIMS in this document. (Note "X" in the trim model number denotes finish code.)

Housing – Compatibility

The ML56 LED module - trim combination is cULus Listed or UL Classified for use with any 5" or 6" diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 115 in³ in addition to those noted below.

Halo and All-Pro UL Listed Compatibility

6" Trims: 691X, 692X, 693X, 694X, 695X, 696X

(Note shallow housings for use with 691X, 694X, 696X trims only)

HALO - LED Housings with LED Luminaire Connector - High-Efficacy Compliant

Housing Type	Catalog Number	Description
Standard Housings	H750ICAT	6" LED, Insulated Ceiling, Air-Tite, New Construction Housing
	H750RICAT	6" LED, Insulated Ceiling, Air-Tite, Remodel Housing
	H750T	6" LED, Non-IC, Air-Tite, New Construction Housing
	H750TCP	6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing
	E750ICAT	6" LED, Insulated Ceiling, Air-Tite, New Construction Housing
	E750RICAT	6" LED, Insulated Ceiling, Air-Tite, Remodel Housing
Shallow Housings	H2750ICAT	6" LED, Shallow, Insulated Ceiling, Air-Tite, New Constr. (use with 691X, 694X, 696X trims only)
	H2750RICAT	6" LED, Shallow, Insulated Ceiling, Air-Tite, Remodel (use with 691X, 694X, 696X trims only)
	Standard Housings	Standard Housings H750ICAT H750RICAT H750RICAT H750T H750T H750TCP E750ICAT E750RICAT E750RICAT Shallow Housings H2750ICAT

HALO - Incandescent E26 Screwbase Housings

Brand	Housing Type	Catalog Number	Description
alo	Standard Housings	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
		H7ICTNB	6" Insulated Ceiling, New Construction Housing, No Socket Bracket
		H7T	6" Non-IC, New Construction Housing
		H7RT	6" Non-IC, Remodel Housing
		H7TNB	6" Non-IC, New Construction Housing, No Socket Bracket
		H7TCP	6" Non-IC, Chicago Plenum, New Construction/Remodel Housing
		H7UICAT	6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing
		E7ICAT	6" Insulated Ceiling, Air-Tite New Construction Housing
		E7RICAT	6" Insulated Ceiling, Air-Tite Remodel Housing
		E7ICATNB	6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket
		E7TAT	6" Non-IC, Air-Tite New Construction Housing
		E7RTAT	6" Non-IC, Air-Tite Remodel Housing
		E7TATNB	6" Non-IC, Air-Tite New Construction Housing, No Socket Bracket
alo	Shallow Housings	H27ICAT	6" Shallow, Insulated Ceiling, Air-Tite New Construction (use with 691X, 694X, 696X trims only)
		H27RICAT	6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing (use with 691X, 694X, 696X trims only)
		H27T	6" Shallow, Non-IC, New Construction Housing (use with 691X, 694X, 696X trims only)
		H27RT	6" Shallow, Non-IC, Remodel Housing (use with 691X, 694X, 696X trims only)
		E27ICAT	6" Shallow, Insulated Ceiling, Air-Tite New Construction (use with 691X, 694X, 696X trims only)
		E27RICAT	6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing (use with 691X, 694X, 696X trims only)
		E27TAT	6" Shallow, Non-IC, Air-Tite New Construction Housing (use with 691X, 694X, 696X trims only)
		E27RTAT	6" Shallow, Non-IC, Air-Tite Remodel Housing (use with 691X, 694X, 696X trims only)



Halo LED Retrofit Enclosures

Brand	Туре	Catalog Number	Description
Halo	Retrofit	ML7BXRFK	6" Retrofit Enclosure, Non-IC, BX Whip
		ML7E26RFK	6" Retrofit Enclosure, Non-IC, E26 Screw base Interface

Housing Compatibility - Continued

5" Trims: 591X, 592X, 593X, 594X, 595X, 596X

(Note shallow housings for use with 591X, 594X, 596X trims only)

HALO - LED Housings with LED Luminaire Connector - High-Efficacy Compliant

Brand	Housing Type	Catalog Number	Description
Halo	Standard Housings	H550ICAT	5" LED, Insulated Ceiling, Air-Tite, New Construction Housing
		H550RICAT	5" LED, Insulated Ceiling, Air-Tite, Remodel Housing
		E550ICAT	5" LED, Insulated Ceiling, Air-Tite, New Construction Housing
		E550RICAT	5" LED, Insulated Ceiling, Air-Tite, Remodel Housing

HALO - Incandescent E26 Screwbase Housings

Brand	Housing Type	Catalog Number	Description
Halo	Standard Housings	tandard Housings H5ICAT	5" Insulated Ceiling, Air-Tite New Construction Housing
		H5RICAT	5" Insulated Ceiling, Air-Tite Remodel Housing
		H5ICATNB	5" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket
		H5T	5" Non-IC, New Construction Housing
		H5RT	5" Non-IC, Remodel Housing
		H5TNB	5" Non-IC, New Construction Housing, No Socket Bracket
		H5TM	5" Non-IC, New Construction Housing (Canada)
Halo	Shallow Housings	H25ICAT	5" Shallow, Insulated Ceiling, Air-Tite New Construction (use with 591X, 594X, 596X trims only)
		H25RICAT	5" Shallow, Insulated Ceiling, Air-Tite Remodel (use with 591X, 594X, 596X trims only)
		H25ICATNB	5" Shallow, Insulated Ceiling, Air-Tite New Construction, No Socket Bracket (use with 591X, 594X, 596X trims only)

Housings - UL Classified for Retrofit Compatibility

6" Trims: 691X, 692X, 693X, 694X, 695X, 696X

Brand	Housing Type	Description			
Juno	Standard Housings	IC22, IC22R, IC22W, IC22S, IC23, IC23W, TC2, TC2R, IC2			
	Shallow Housings	IC21, IC21R (use with 691X, 694X, 696X trims only)			
Capri	Standard Housings	CR1, PR1, QL1			
	Shallow Housings	R9ASIC/PS9RM (use with 691X, 694X, 696X trims only)			
Elco		HL7ICA (EL7ICA)			
Lithonia	Standard Housings	LC6, L7X			
	Shallow Housings	L7XP (use with 691X, 694X, 696X trims only)			
Thomas		PS1			
Commercial Electric		C7ICA, H3			
Progress	Standard Housing	P87-AT †*			
	Shallow Housing	P86TG (use with 691X, 694X, 696X trims only)			
Lightolier		1104ICS †*, 1104ICR †*			

† Requires replacement of torsion springs with Friction Clips. Order Friction Clip Kit separately: ML56CLIP * ML56CLIP is compatible with only baffle and reflector trims

5" Trims: 591X, 596X

Brand	Housing Type	Catalog Number
Juno	Standard Housings	IC20, IC25S, IC25W, TC20



ML56 900 Series Compliance Table

90 CRI LED Module	es with ML56 Trims			
	ML5609927	ML5609930	ML5609935	ML5609940
593BB	WSEC, IECC	ES, T24, WSEC, IECC	ES, T24, WSEC, IECC	ES, T24, WSEC, IECC
593BB	ES, T24, WSEC, IECC			
593TBZB	ES, T24, WSEC, IECC			
693TBZB	ES, T24, WSEC, IECC			
593SNB	ES, T24, WSEC, IECC			
593SNB	ES, T24, WSEC, IECC			
592H	ES, T24, WSEC, IECC			
593WB	ES, T24, WSEC, IECC			
592W	ES, T24, WSEC, IECC			
595WW	ES, T24, WSEC, IECC			
592SC	ES, T24, WSEC, IECC			
692H	ES, T24, WSEC, IECC			
595WW	ES, T24, WSEC, IECC			
593WB	ES, T24, WSEC, IECC			
592SC	ES, T24, WSEC, IECC			
596WB	ES, T24, WSEC, IECC			
592W	ES, T24, WSEC, IECC			
594TBZB	ES, T24, WSEC, IECC			
594TBZB	ES, T24, WSEC, IECC			
594SNB	ES, T24, WSEC, IECC			
696WB	ES, T24, WSEC, IECC			
694SNB	ES, T24, WSEC, IECC			
694WB	ES, T24, WSEC, IECC			
594WB	ES, T24, WSEC, IECC			
594WB-30	ES, T24, WSEC, IECC			
694WB-30	ES, T24, WSEC, IECC			

Code Descriptions:

ES = ENERGY STAR[®] Certified Luminaire

T24 = Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.

IECC = International Energy Conservation Code "High Efficacy"

WSEC = Washington State Energy Code - "High Efficacy" Luminaire

ML56 900 Series Lumen Table

90 CRI LED Modules with ML56 trims		ML5609927		ML56	09930	ML56)9935	ML5609940		
	Trim Catalog #	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	
° Tilt Angle	593BB	560.4	58.1	602.0	63.0	636.3	66.9	660.1	69.3	
	693BB	629.0	65.3	675.8	70.7	714.2	75.1	740.9	77.8	
	593TBZB	638.6	66.2	686.0	71.8	725.1	76.2	752.2	79.0	
	693TBZB	664.0	68.9	713.4	74.6	753.9	79.3	782.1	82.2	
	593SNB	704.2	73.0	756.5	79.1	799.6	84.1	829.5	87.1	
	693SNB	735.0	76.2	789.7	82.6	834.6	87.8	865.8	90.9	
	592H	788.0	81.7	846.6	88.6	894.8	94.1	928.2	97.5	
	593WB	825.4	85.6	886.7	92.8	937.2	98.5	972.2	102.1	
	592SC	853.2	88.5	916.6	95.9	968.7	101.9	1005.0	105.6	
	592W	832.3	86.3	894.2	93.5	945.1	99.4	980.4	103.0	
	595WW	852.3	88.4	915.7	95.8	967.8	101.8	1004.0	105.5	
	695WW	858.4	89.0	922.2	96.5	974.7	102.5	1011.1	106.2	
	692H	856.6	88.9	920.3	96.3	972.7	102.3	1009.1	106.0	
	692W	881.8	91.5	947.4	99.1	1001.3	105.3	1038.8	109.1	
	692SC	880.7	91.4	946.2	99.0	1000.1	105.2	1037.5	109.0	
	693WB	868.8	90.1	933.4	97.6	986.5	103.7	1023.4	107.5	
	596WB	881.0	91.4	946.5	99.0	1000.3	105.2	1037.7	109.0	
	694TBZB	892.3	92.6	958.6	100.3	1013.1	106.5	1051.0	110.4	
	696WB	907.9	94.2	975.4	102.0	1030.9	108.4	1069.5	112.3	
	594TBZB	887.9	92.1	953.9	99.8	1008.2	106.0	1045.9	109.9	
	694SNB	908.8	94.3	976.3	102.1	1031.9	108.5	1070.5	112.4	
	594SNB	892.3	92.6	958.6	100.3	1013.1	106.5	1051.0	110.4	
	694WB	946.1	98.1	1016.5	106.3	1074.3	113.0	1114.5	117.1	
	594WB	947.6	98.3	1018.1	106.5	1076.0	113.1	1116.3	117.3	
0° Tilt Angle	594WB-30	918.3	95.3	986.6	103.2	1042.7	109.6	1081.7	113.6	
	694WB-30	892.3	92.6	958.6	100.3	1013.1	106.5	1051.0	110.4	

Photometric tests are per IES measurement standards. Tests represent typical fixture performance. Field results may vary.



Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com

Specifications and dimensions subject to change without notice.

—св⊣

Photometry 5" Trims • 900 Series • 90 CRI

Mul	tip	lier	Tal	ble

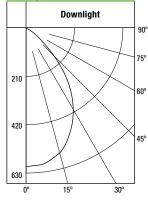
CCT Option	2700 K	3000 K	3500 K	4000 K					
CCT Multiplier	0.88	1.00	1.04	1.10					

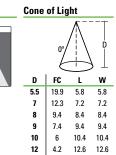
Table based upon testing with 3000°K color temperature, 90CRI.

Multipliers may be used to determine relative lumen values with other color temperatures.

Test Number	P130008	
Light Module	900 Series, 90CRI	
Trim	5″ Aperture, Specular Clear Trim	
Lumens	827	
Efficacy	61.7 Lm/W	
SC	1.06	

Candlepower Distribution



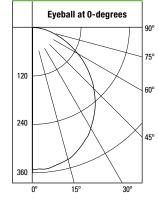


Zonal Lumen Summary							
Zone	Lumens	%Fixture					
0-30	428	51.8					
0-40	639	77.2					
0-60	817	98.8					
0-90	827	100					
90-180	0	0					
0-180	827	100					



INIT2002220		
Test Number	P130064	
Light Module	900 Series, 90CRI	
Trim	5" Aperture, Directional Eyeball	
Lumens	918	
Efficacy	68.5 Lm/W	
SC	1.22	

Candlepower Distribution



Zonal Lumen Summary

Lumens

271

437

744

918

0

918

Multiple Unit Footcandles

%Fixture

29.5

47.6

81

100

0

100

Zonal Lumen Summary

Lumens

406

611

804

826

0

826

Zone

0-30

0-40

0-60

0-90

90-180

0-180

Zone

0-30

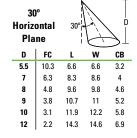
0-40

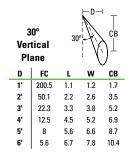
0-60

0-90

90-180

0-180





%Fixture

49.1

73.9

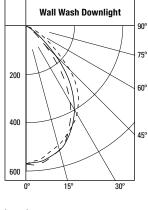
97.4

100

0

100

Candlepower Distribution





ML5609930-595WW

Test Number	P130088	
Light Module	900 Series, 90CRI	
Trim	5" Aperture, Wall Wash with Specular Clear Trim and Specular Clear Kick Reflector	
Lumens	826	
Efficacy	61.6 Lm/W	
SC	1.06	

Single Unit Footcandles

2.5' From Wall (Distance From Fixture Along Wall)						2.5' Fro	m Wall	(Distanc	e From I	- ixture A	long Wa	all)		
DD		1'	2'	3'	4'	5'	6'	DD		3'			4'	
1'	3.4	2.2	0.8	0.2	0.1	0	0	1'	3.6	2.8	3.6	3.4	1.6	3.4
2'	11.8	8.6	3.7	1.1	0.3	0.1	0	2'	12.8	11.6	12.8	12.1	7.3	12.1
3'	13.7	11.4	6.1	2.4	0.9	0.3	0.1	3'	16.1	17.5	16.1	14.6	12.3	14.6
4'	9.6	8.7	6.2	3.3	1.5	0.6	0.3	4'	12.9	14.8	12.9	11.1	12.3	11.1
5'	6.4	6	4.7	3.2	1.9	0.9	0.4	5'	9.5	10.6	9.5	8.2	9.5	8.2
6'	4.3	4.1	3.5	2.6	1.8	1.1	0.6	6'	6.9	7.5	6.9	6.1	6.9	6.1
7'	3	2.9	2.5	2	1.5	1.1	0.7	7'	5	5.3	5	4.5	5.1	4.5
8'	2.1	2.1	1.9	1.6	1.3	1	0.7	8'	3.7	3.9	3.7	3.4	3.8	3.4
9'	1.6	1.5	1.4	1.2	1	0.8	0.6	9'	2.8	2.9	2.8	2.6	2.8	2.6
10'	1.2	1.2	1.1	1	0.8	0.7	0.6	10'	2.1	2.2	2.1	2	2.2	2

Photometric tests are per IES measurement standards. Tests represent typical fixture performance. Field results may vary.



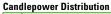
Photometry 6" Trims • 900 Series • 90 CRI

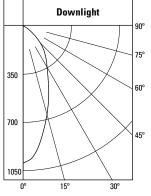
Multiplier Table								
CCT Option	2700 K	3000 K	3500 K	4000 K				
CCT Multiplier	0.88	1.00	1.04	1.10				

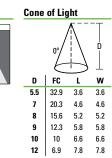
Table based upon testing with 3000°K color temperature, 90CRI.

Multipliers may be used to determine relative lumen values with other color temperatures.

ML5609930	-692SC	Cone	of Lig
Test Number	P130104		
Light Module	900 Series, 90CRI		
Trim	6" Aperture, Specular Clear Trim		_₀/
Lumens	853		1
Efficacy	63.7 Lm/W		\leq
SC	0.66	D	FC
			00.0







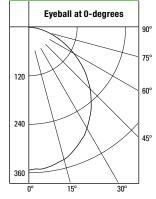
Zone	Lumens	%Fixture
0-30	469	54.9
0-40	649	76.1
0-60	842	98.7
0-90	853	100
90-180	0	0
0-180	853	100



S

Test Number	P130160	
Light Module	900 Series, 90CRI	
Trim	6" Aperture, Directional Eyeball	
Lumens	917	
Efficacy	68.4 Lm/W	
SC	1.21	

Candlepower Distribution



Lumens

271

437

744

917

0

917

%Fixture

29.5

47.6

81.1

100

0

100

Zone

0-30

0-40

0-60

0-90

90-180

0-180

Zonal Lumen Summary

Lumens

445

622

813

832

0

832

Zonal Lumen Summary

Zone

0-30

0-40

0-60

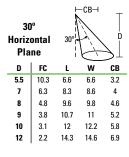
0-90

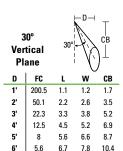
90-180

0-180

1 0.6

0.9 0.7 0.5





%Fixture

53.5

74.8

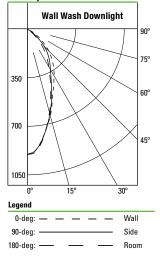
97.7

100

0

100

Candlepower Distribution



ML5609930-695WW

Single Unit Footcandles

1' 2' 3' 4' 5' 6'

2.5

10.9 7.7 3.4 1.1 0.3 0.1 0

11.6 9.5 5.5 2.5 0.9 0.3 0.1

8.7

6.2

4.4

3.3

2.5 2.3 1.9 1.5 1.1 0.8 0.6

2

1.5 1.4 1.3 1 0.8 0.6 0.5

DD

1'

2'

3'

4'

5'

6'

7'

8'

9'

10'

2.5' From Wall (Distance From Fixture Along Wall)

1.4 0.5 0.2 0 0 0

7.5 5.2 3 1.5 0.6 0.3

5.5 4.1 2.8 1.7 0.9 0.4

4 3.2 2.3 1.5

3 2.5 1.9 1.3 0.9 0.6

1.8 1.5 1.2

Test Number	P130184	
Light Module	900 Series, 90CRI	
Trim	6" Aperture, Wall Wash with Specular Clear Trim and Specular Clear Kick Reflector	
Lumens	832	
Efficacy	62.1 Lm/W	
SC	0.69	

Multiple Unit Footcandles

2.5' From Wall (Distance From Fixture Along Wall)

2.3 FIUII WAII (DISTAILCE FIUIII FIXTURE ADDING WAII)						
DD	3'4'					
1'	2.6	1.9	2.6	2.5	1	2.5
2'	11.9	10.8	11.9	11.1	6.7	11.1
3'	14.1	15.1	14.1	12.5	11	12.5
4'	11.8	12.9	11.8	10.2	10.4	10.2
5'	8.9	9.8	8.9	7.8	8.3	7.8
6'	6.7	7.4	6.7	5.9	6.4	5.9
7'	5.1	5.6	5.1	4.6	5	4.6
8'	4	4.3	4	3.6	3.9	3.6
9'	3.2	3.4	3.2	2.9	3.1	2.9
10'	2.5	2.7	2.5	2.3	2.5	2.3
10	2.5	2.7	2.5	2.5	2.5	2.5

Photometric tests are per IES measurement standards. Tests represent typical fixture performance. Field results may vary.

