

MIGHTY MAC™

WCHS SERIES

PRODUCT FEATURES:

- » Wall-mounted luminaire with downward illumination
- » Innovative door-free design eliminates the possibility of contraband concealment and tampering
- » Designed for permanent installation
- » One-piece, TIG-welded housing with reinforced, continuous lens retention
- » LED thermal management and under-stressed driver to promote long life expectancy



PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

SPECIFICATIONS

HOUSING: One-piece die-formed prime grade material as specified – see Ordering Information. Cold-rolled steel and painted stainless steel options are finished with a gloss white TGIC polyester powder coat finish with 5-stage pre-treatment. Continuous seam-welded and smoothed corners with no post grinding (TIG). Housing resistant to penetration and contraband concealment. One-piece concealed lens retention bracket.

OPTICS: High-efficiency diffused, impact-resistant acrylic inner lens with clear polycarbonate or tempered glass outer lens. See Ordering Information for selection options. Maximum 0.625" overall thickness.

LED MODULE: Serviceable mid-power LED array. 3500K, 4000K and 5000K color temperature options with maximum 3-step MacAdam variation allowance. Minimum 82CRI standard (R9>20) with 90CRI (R9>50) optional.

DRIVER: 120-277VAC or 347VAC, 50/60Hz electrical input with serviceable constant-current driver (<20% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities (non dim-to-dark with 347V); maximum 165µA maximum source current. Optional eLdLED ECODrive DALI drivers with 1-100% range and Lutron EcoSystem dimming drivers with 1-100% range and Soft On, Fade-to-Black.

CONTROLS: Optional embedded microwave motion sensor (MS) has factory default settings of 20 minute time out, dims down to 30%.

INSTALLATION: Wall-mount installation via external mounting holes using six (6) high-security bolts (provided by others).

WARRANTY: Limited five (5) year LED and driver warranty.

LISTINGS: Luminaire is certified to UL Standards by Intertek Testing Laboratory for Damp Location.



ORDERING INFORMATION (Ex: WCHS-3-0-27L-35K8-DIM1-DV-SYM/B-FS)

Model	Length	Hsg. Material	Lamp Power	Lamp Color	Driver Type	Voltage	Lens (Inner/Outer)	Options
WCHS	3						SYM /	
	Length				Driver Type		Lens (Inner/Outer)	
	3 3' Nominal				DIM1 0-10V Dimming to 1%		SYM .125" Diffused DR Acrylic (n/a as outer lens)	
	Housing Material				DALI DALI Dimming to 1%		G .125" Clear Polycarbonate	
	0 14-Ga CRS in Gloss White				ECO1 Lutron Hi-Lume 1% EcoSystem®		7 .187" Clear Polycarbonate	
	1 16-Ga CRS in Gloss White				Voltage		8 .187" Clear Tempered Glass	
	3 14-Ga Type 304 Stainless Steel in Gloss White				DV 120-277VAC, 50/60Hz		9 .250" Clear Polycarbonate	
	4 16-Ga Type 304 Stainless Steel in Gloss White				347 347VAC, 60Hz (DIM1 only)		A .250" Clear Tempered Glass	
	9 12-Ga CRS in Gloss White						B .375" Clear Polycarbonate	
	Lamp Power						C .375" Clear Tempered Glass	
	18L 18 Watt LED						J .500" Clear Polycarbonate	
	27L 27 Watt LED						P .500" Clear Tempered Glass	
	36L 36 Watt LED						Options	
	Lamp Color						LELST Integral 6W Self-Testing Emergency Battery Backup (n/a 347V)	
	35K8 3500K / 82 CRI min.						FS Single Fuse & Holder	
	35K9 3500K / 90 CRI min.						MS Embedded Microwave Motion Sensor (DIM1 only; n/a 347V)	
	40K8 4000K / 82 CRI min.						NLW 2700K White LED Night Light (n/a 347V)	
	40K9 4000K / 90 CRI min.						NLA Amber LED Night Light (n/a 347V)	
	50K8 5000K / 82 CRI min.							



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MIGHTY MAC™

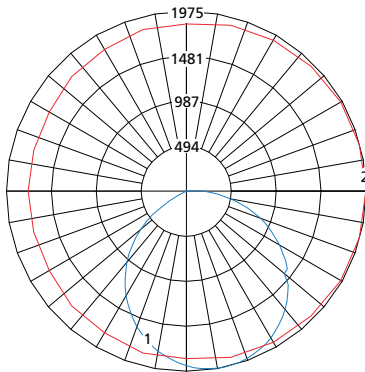
WCHS SERIES

PERFORMANCE

Lamp Power	Initial Delivered Lumens, by CCT (lm)					Efficacy (lm/W)	Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (Hrs)
	35K8	35K9	40K8	40K9	50K8				
18L	2,703	2,339	2,756	2,362	2,832	105 - 127	22	70	85,000
27L	4,000	3,461	4,079	3,494	4,191	104 - 126	33	105	75,000
36L	5,030	4,352	5,129	4,394	5,270	98 - 119	44	140	60,000

NOTE: All products tested with SYM/B lens configuration. See "Lumen Output Scaling Factor" table for output values with alternate lens configurations. Information subject to change without notice. Visit www.kenall.com for IES files and additional information.

Model: WCHS-3-y-36L-40K8-DIM1-zzz-SYM-B



Maximum Candela = 1975 Located At Horizontal Angle = 0, Vertical Angle = 12.5

- 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)

LUMEN OUTPUT SCALING FACTORS

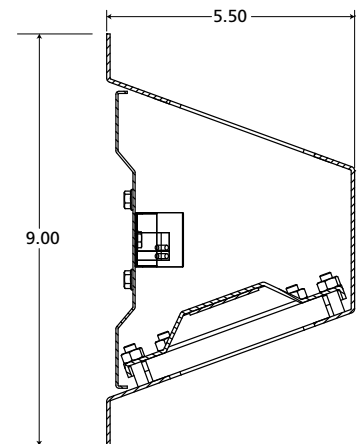
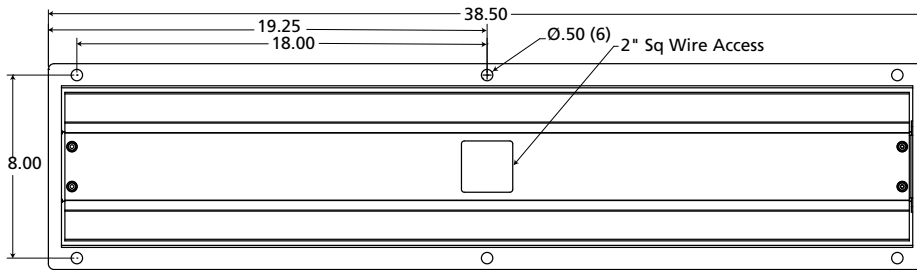
Lens Configuration	Outer Lens	Scaling Factor
SYM/G	1/8" Clear PC	1.10
SYM/7	3/16" Clear PC	1.06
SYM/8	3/16" Clear TG	1.06
SYM/9	1/4" Clear PC	1.03
SYM/B	3/8" Clear PC	1.00
SYM/C	3/8" Clear TG	1.03
SYM/J	1/2" Clear PC	0.99

NOTE: Use this table to determine the lumen output and efficacy with the desired lens configuration by multiplying the provided value with the appropriate number in the 'Performance' table above.

DIMENSIONAL DATA

BACK VIEW

CROSS SECTION



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