



LitePro 2.025 Point-By-Point Results
Blue Ash Storage/Storage GROUP: Blue Ash Storage AREA: New Area GRID: New Grid KED BY:

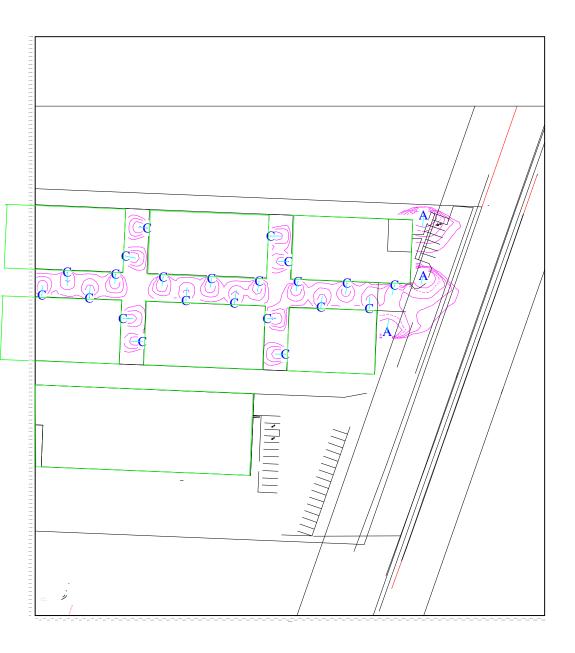
VALUES ARE FC, SCALE: 1 IN= 120.0FT, HORZ GRID (U), HORZ CALC, Z= 0.0

Computed in accordance with IES recommendations

Statistics

GROUP	MIN	MAX	AVE	AVE/MIN	MAX/MIN
(+)	0.00	30.06	0.83	N/A	N/A
(*)	0.00	0.04	0.00	N/A	N/A

CONTOUR LEVELS:- = 7.00 -- = 4.00 .. = 2.00 -. = 1.00 -.. = 0.50





Photometric Data Summary

TEST #HP09709A

LUMINAIRE: WGH150S WGH MID-SIZE SERIES - CAST ALUMINUM HOUSING. BOROSILICATE

BALLAST: STD BALLAST FACTOR: 1.00

LAMP: C150S55/M LUMENS PER LAMP: 16000

WATTS: 188

CUTOFF TYPE: Noncutoff RANGE CLASS: Very Short Range LUMINOUS OPENING IN FEET

LENGTH: 0.33 WIDTH: 0.92 HEIGHT: 0.52

LUMENS

TEST #HP09709A DATE: 11/13/2012 TOTAL LUMINAIRE EFFICIENCY = 51.9%

			0	UTDOOR P	LANE (CONE PLO	Г	
	1;	35	150	165	180_	165	150	135
				44	100		\swarrow	
	120			22	200 /			120
	105		7					105
	90							90
180.0 1532 461 152	75			22	200			75
198 59 10 10	60			44	100			60
8 6 5 3	45	/	30	15	0	15	30	45
0								

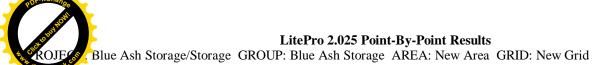
Vert. Plane Through 5.0-185.0 Horiz. -----
Horiz. Cone Through 60.0 Vert. ——

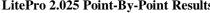
Max Candelas = 4385 @ 5.0H,60.0V

ZONAL LUMENS

0-30	1111	6.9	13.4	
0-40	1766	11.0	21.3	
0-60	3428	21.4	41.3	
0-90	6259	39.1	75.3	
90-120	1386	8.7	16.7	
90-130	1615	10.1	19.4	
90-150	1980	12.4	23.8	
90-180	2049	12.8	24.7	
0-180	8308	51.9	100.0	
CANDELA S	UMMARY			
ANGLE	0.0	45.0	90.0	135.0
0.0	1532	1532	1532	1532
15.0	2109	2334	1440	807
30.0	2174	1717	1032	336
45.0	2282	1660	538	157
60.0	4377	1991	370	152
75.0	2700	1897	177	41
90.0	2545	1221	64	30
105.0	1523	748	61	18
120.0	986	567	60	9
135.0	923	605	34	5
150.0	819	378	12	4
165.0	91	27	3	3
180.0	0	0	0	0

%LAMP %FIXTURE





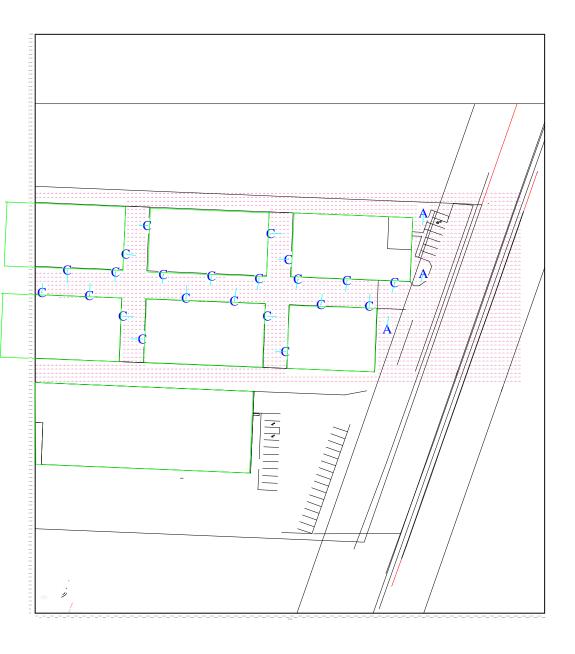


KED BY: VALUES ARE FC, SCALE: 1 IN= 120.0FT, HORZ GRID (U), HORZ CALC, Z= 0.0

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Cat. #		Approvals
Job	Туре	



INTENDED USAGE

 Perimeter lighting for safety and security. Use on factories, warehouses, self storage, commercial buildings, etc.

CONSTRUCTION

- Borosilicate glass refractor softens lamp image and provides uniform distribution – 4 times spacing to mounting height.
- Cast aluminum frame holds lens and seals to housing gasket with two stainless steel screws.
- Door assembly hinges to side on mid-size units; hinges down on large units
- Cast aluminum housing with 1/2" conduit entries, button photocontrol can be field installed
- All units have dark bronze powder paint finish, Quad-Tap® ballasts and lamps included

ELECTRICAL

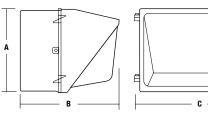
- WGH mid-size is 150w HPS/PS and 84w CFL; large size handles 250-400w PS and HPS; 150P unit includes medium base lamp; All other HID units include mogul base lamp
- 84w (2x42wCFL) is available with 180° motion sensor factory wired to control one lamp providing 50% energy savings



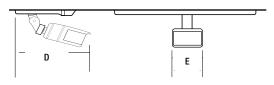




LARGE



	A	В	C	D	E
MID-SIZE	9"	71/4"	13"	6.5"	2.5"
	229 mm	184 mm	330 mm	165mm	63.5mm
LARGE	9"	13"	17"	-	-
	229 mm	330 mm	432 mm	-	-



WGH-84F-MS42

LICTINGS

· Listed to UL 1598 for use in wet locations

ORDERING INFORMATION

Catalog Number ¹	Catalog Number ¹ Wattage/Source Voltage		Finish	Wei	ght
				lbs	kg
		MID-SIZE SERIES			
WGH-150P	150w/PS	120, 208, 240, 277V	Bronze	19	8.6
WGH-150S	150w/HPS	120, 208, 240, 277V	Bronze	18	8.2
WGH-150S120	150w/HPS	120V	Bronze	15	6.8
WGH-84F ²	2x42w/CFL	120, 208, 240, 277V	Bronze	10	4.5
WGH-84F-MS423	2x42w/CFL	120V	Bronze	11	5.0
		LARGE SERIES			
WGH-250P	250w/PS	120, 208, 240, 277V	Bronze	34	15.4
WGH-320P	320w/PS	120, 208, 240, 277V	Bronze	37	16.8
WGH-400P	400w/PS	120, 208, 240, 277V	Bronze	37	16.8
WGH-250S	250w/HPS	120, 208, 240, 277V	Bronze	36	16.3
WGH-400S	400w/HPS	120, 208, 240, 277V	Bronze	40	18.1

- 1 Lamp included on all units.
- 2 Lamps are 3500K 4-Pin (single two lamp ballast).
- 3 Unit has individual lamp ballasts, lamps are 3500K, can be easily wired for motion control of both lamps if desired. Sensor has 180° detection range with adjustable time-on and sensitivity settings.

ACCESSORIES

(order	as	se	par	ate	part	#)	١
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Catalog Number	Description
PBT-1	Photocontrol, 120 volt
PBT-234	Photocontrol, 208, 240, 277 volt
SM106-GUARD	Wire Guard for MID-SIZE fixtures
SM708-GUARD	Wire Guard for LARGE fixtures
SM106-SHIELD	Polycarbonate Shield for MID-SIZE fixtures
SM106VISOR	Top visor for MID-SIZE fixtures
SM708VISOR	Top visor for LARGE fixtures

PHOTOMETRIC REPORTS

Catalog Number	Report #
WGH150S	HP09709.IES
WGH400S	HP09706.IES
WGH84F	WGH84F.IES

Due to our continued efforts to improve our products, product specifications are subject to change without notice.





Photometric Data Summary

TEST #HP07064

LUMINAIRE: MSV-A0400S-VWxx MAGNUSQUARE II - MSV SERIES -Flat and convex glass lens. BALLAST: STD. REF. BALLA BALLAST FACTOR: 0.95

LAMP: C400S51

LUMENS PER LAMP: 50000

WATTS: 465

CUTOFF TYPE: Semicutoff RANGE CLASS: Short Range LUMINOUS OPENING IN FEET

DATE: 11/13/2012 **TOTAL LUMINAIRE EFFICIENCY = 65.8%**

	OPENING IN ENGTH: 0.00	IFEEI						0	UTDOO	OR PLA	NE (CONE PLO	T		
	IDTH: -1.53					13	35	150	165	1	80_	165	150	135	
	EIGHT: 0.30								+	16200		-			
								\rightarrow	_ \	10200			\times		
ZONAL LUN	_							/ \		\					
ZONE	LUMENS	%LAMP	% FIXTURE				X			\				<u> </u>	
0-30	4419	8.8	13.4			120				\				120)
0-40	8104	16.2	24.6				$\langle \langle \rangle \rangle$			A	1	1 /			
0-60	17822	35.6	54.2					_ / /	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	8100	1/ .	\mathbb{N}	////		
0-90	32816	65.6	99.8					//	\times '	\	W /	/ X		\	
90-120	76	0.2	0.2			105	+		\langle	//	1/	// >		105	į
90-130	76	0.2	0.2					$\sim t$	7 /	///	$1/_{2}$	////	+		
90-150	76	0.2	0.2					T		////		///			
90-180	76	0.2	0.2			90			\geq			€		90	
0-180	32892	65.8	100.0					-6-				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
CANDELA S	UMMARY								ارتار	///	//	1	<i>\frac{1}{2}</i>		
ANGLE	0.0	45.0	90.0	135.0	180.0	75	-\	-	X X	/ .f.,	1.1	$\mathcal{C} \times \mathcal{A}$	<u> </u>	75	
0.0	6482	6482	6482	6482	6482		¥	//	\times	7-1	₩\	X		}	
15.0	4880	5047	4880	5047	4880				/ /	8100		LXX)		\ /	
35.0	5662	6322	5662	6322	5662			///	//	V	1	V / V		/	
55.0	5275	5677	5275	5677	5275	60				/				60	
70.0	4642	16360	4642	16360	4642		/			/			, ×	(
75.0	2865	13262	2865	13262	2865			\ /		/		\	\ /		
80.0	1271	6505	1271	6505	1271			\times	_ /	40000		\	\times		
85.0	293	471	293	471	293				+	16200	'				
95.0	44	35	44	35	44	45	,	30	15		0	15	30	45	
115.0	0	0	0	0	0	.0					_		-		
180.0	0	0	0	0	0										

Vert. Plane Through 45.0-225.0 Horiz. Horiz. Cone Through 70.0 Vert. -Max Candelas = 16360 @ 45.0H,70.0V



Cat. #		Approvals
Job	Туре	



APPLICATIONS

 Malls, retail complexes, industrial sites or any large area lighting project where superior performance, design flexibility, and value are a must

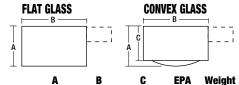
SPECIFICATIONS

- · Lightweight, rugged, one-piece formed and welded aluminum for smooth wall construction and weatherproofing. Pre-drilled for arm mounting. Decorative embossed band and reveal colors available
- Extruded aluminum door frame with rigid corner bracing and die cast zinc latches for tool-free entry (flat glass lens). Formed aluminum doorframe (convex lens) with stainless steel, Knurled head thumb screw design for tool-free entry. Quality high temperature rated extruded silicone gasket seals out insects, dirt and moisture. Tempered flat glass lens provides impact and thermal shock resistance and a sharp full cutoff classification. Impact and thermal shock resistant convex lens provides improved light level uniformity and broadened luminaire spacing
- Vertical and horizontal lamp orientations available: IES types I, II, III, IV, and V distributions. V1P, V3P, V5P and H5P reflectors are fully segmented. V4 and H4 reflectors are multi-piece design. H3 and H5 reflectors are hydroformed. All reflectors are rotatable
- · Spider mount has four twin-tube arms attaching housing to pole top fitter. Yoke mount has two square arms securing housing to pole top fitter
- Extruded aluminum arms in 4" and 10" lengths along with multiple adapters provide mounting flexibility.
- · Mogul porcelain socket, pulse rated, with spring-loaded, nickel-plated center contact and reinforced lamp grip screw shell
- CWA type, HPF ballast, starting rated at -20°F (-40°F for HPS)
- Durable Lektrocote® TGIC thermoset polyester powder coat paint finish assures long life and maintenance-free service

LISTINGS/CERTIFICATIONS

- Listed to UL1598 for use in wet locations
- IDA fixture seal of approval.





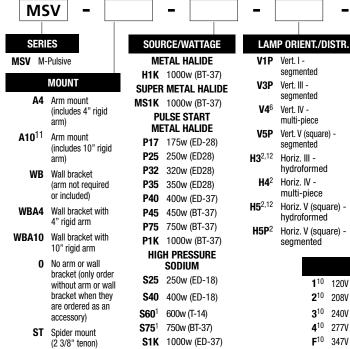
FLAT	15"	21"	N/A	2.8 ft.2*	68 lbs
	381 mm	533 mm		$0.35m^{2}$	30.6 kg
CONVEX 14 1/2"		21" sq.	12"	2.4 ft. ²	63 lbs
	368 mm	533 mm	374 mm	$0.2m^2$	28.6 kg

NOTE: EPA and weight values do not include mounting arm

SPIDER MOUNT YOKE MOUNT C D Flat **EPA** Weight **SPIDER** 33 11/16" 36 1/2" 0.5 ft.2 9 lbs 856 mm 928 mm 0.15m² 4.1 kg **YOKE** 35 3/16' 33 11/16" 1.6 ft.2 11 lbs 894 mm 856 mm 0.49m² 5.0ka

ORDERING EXAMPLE: MSV-A4-P1K-V5P-F-5-DB-RPA4

ORDERING INFORMATION



′	175W (ED-28)		segmented				.0
5	250w (ED28)	H3 ^{2,12}	Horiz. III -				RD
2	320w (ED28)		hydroformed				עח
5	350w (ED28)	H4 ²	Horiz. IV -				FG
0	400w (ED-37)	H5 ^{2,12}	multi-piece	>			ru .
5	450w (BT-37)	H5 ^{2,12}	Horiz. V (squa hydroformed				
5	750w (BT-37)	H5P ²	Horiz. V (squ				CC
(1000w (BT-37)		segmented	u. 0)			
IG	H PRESSURE Sodium				٧	OLTAGE	
5	250w (ED-18)		1 ¹⁰	120V	\mathbf{Q}^3	Quad-Tap® 120/208/2	240/277V
0	400w (ED-18)		2 ¹⁰	208V	5	480V	
1	600w (T-14)		3 ¹⁰	240V	т3	Tri-Tap® 120/277/347	VV
1	750w (BT-37)		4 ¹⁰	277V	Ε	50Hz 220/240V	
(1000w (ED-37)		F ¹⁰	347V	V 3,9	Five-Tap 120/208/240)/277/480V
					0	No Ballast	

	COLOR	
DB	Dark Bronze (textured)	
BL	Black (textured)	
WH	White (textured)	P
GR	Gray (textured)	
PS	Platinum Silver (smooth)	
RD	Red (smooth) (premium color)	
FG	Forest Green (textured, premium color)	
CC	Custom Color (consult factory)	
277V		

	OPTIONS
F(X) ⁶	Fusing (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 5-480, 6-347)
PR(X) ¹²	Photo cell receptacle (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 5-480, 6-347)
P(X) ^{4,5}	Photo button (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 6-347)
RPA2	Round pole adapter (2 3/4 - 3 1/8")
RPA3	Round pole adapter (3 1/4 - 3 3/4")
RPA4	Round pole adapter (3 7/8 - 4 1/2")
RPA5	Round pole adapter (5")
RPA6	Round pole adapter (6")
QZ 5	Quartz RS with lamp
VG	Polycarbonate vandal guard
R(XX) ⁷	Reveal (EB option must be chosen also); Replace XX with color
EB	Embossed band

L Lamp

- Must specify Q, 5, or T voltage. Available voltage tap on ballast may vary from
- catalog; **Must specify wiring prep with options**Flat lens configurations only for horizontal lamp orientation
- Factory wired for highest voltage unless specified

Yoke mount

(2 3/8" tenon)

- Not available with 50 Hz ballast, 600w and 750w HPS. and convex lens with 1000w HPS

NOTE: All poles to be drilled with #2 pattern

Not available with convex lens and 1000w HPS or 1000w with yoke or spider mount Reveal selection requires EB - embossed band option

LENS

glass

Convex

alass

F Flat

- Vertical lamp only
- Only available with 400w, 350w, 320w, and 250w
- 10 Only available with 1000w PSMH, 600w HPS, and 750w HPS
- 11 Required for 90° configurations
- 12 Not available with 1000w yoke or spider mount

SPAULDING LIGHTING SHEET # MSV-SPEC7/12

^{*} With the 4" arm the EPA is 2.8ft2.

SPECIFICATIONS

HOUSING Die-formed rectilinear housing to have continuous corner welds creating a seamless one-piece enclosure. Housing material to be heavy gauge low copper aluminum alloy. Door assembly to recess completely within luminaire housing creating evenly spaced reveal and floating door appearance.

DOOR/LENS FLAT LENS DESIGN: Extruded aluminum doorframe for tempered flat glass lens design to have 45° miter cut corners with internal corner key brackets for rigid support. Finish to be anodized with natural aluminum color. Tool-free entry design provided by corrosion-resistant, spring-loaded die cast zinc thumb latches (one per corner). Extruded silicone gasket profile to positively seal tempered glass lens to doorframe and doorframe to luminaire housing ensuring a contaminant fee environment. Complete removal of the door assembly is achievable without tools. CONVEX LENS DESIGN: Die formed aluminum doorframe with impact and thermal-shock resistant convex lens, vulcanized one-piece extruded silicone gasket, and tool-free entry with two Knurled head stainless steel screws. Two additional corrosion-resistant treated screws provide door hinging and two additional points of attachment for equal gasket compression. Matching TGIC thermoset polyester powder paint finish to match the luminaire housing color.

MOUNTING The luminaire housing shall attach to all mounting hardware via two 1/2" diameter bolts/rods. Mounting options to include rigid arm assemblies, knuckled arm assemblies for flat surfaces, knuckled arm assemblies for 23/8" OD tenon, wall bracket adapter, and round pole adapters ensuring maximum luminaire versatility. All mounting accessories should include gasket between the housing and accessory.

OPTICS The luminaire should be available in both vertical and horizontal lamp orientations. All optical assemblies are to be field rotatable in 90° increments. All flat glass configurations are to be IES – Full Cutoff classified. Internal house side shielding to be available with horizontal Type III distribution and field installable.

ELECTRICAL Available HID wattage range of 250 to 1000 watts from Metal Halide, Pulse Start Metal Halide, High Output Super Metal Halide, and High Pressure Sodium sources. Additional options include fusing, photocell cell control, and quartz restrike lamp.

FINISH TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness. Prior to painting all luminaires and mounting accessories should be thoroughly cleaned with acid and alkaline cleaners followed by the application of a chromate conversion coating.

LISTINGS/CERTIFICATION UL1598 approved and CSA certified for outdoor use in wet locations

MSV EPA VALUES

Mounting Logic for Pole	Configuration	Flat Lens w/ 4" Arm	Flat Lens w/ 10" Arm	Convex Lens w/ 4" Arm	Convex Lens w/ 10" Arm
A	SINGLE	2.8	3	2.5	2.7
В	TWIN AT 90°	N/A	5.3	N/A	4.7
C	TWIN AT 180°	5.6	6	5	5.4
D	TRIPLE AT 90°	N/A	8.6	N/A	7.5
E	TRIPLE AT 120°	8.2	8.4	7.1	7.3
F	OUAD AT 90°	N/A	8.8	N/A	7.7

ACCESSORIES

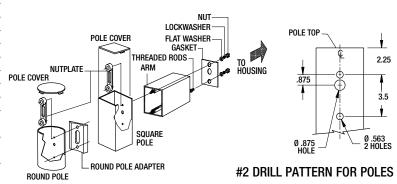
(Must be ordered separately. For field installation.)

Catalog #	Description
MSV-FGGS-2	Extreme Glare Shield for flat glass units only (mounts to housing)
restricts lighting to an	y one side of fixture; black finish standard
MSV-GS	Glare Shield for sag glass units only; restricts light to any one
	side of fixture, black finish standard
MSV-PVG	Polycarbonate Vandal Guard
FDMLH	Flush Mount Kit - direct mount luminaire hardware kit
F-RPA2-XX1,2	Round Pole Adapter (2¾ - 31/8")
F-RPA3-XX1,2	Round Pole Adapter (3½ - 3¾")
F-RPA4-XX1,2	Round Pole Adapter (3 ⁷ / ₈ - 4 ¹ / ₂ ")
F-RPA5-XX1,2	Round Pole Adapter (5")
F-RPA6-XX1,2	Round Pole Adapter (6")
WB-CR-XX1	Wall Bracket
ARM-F-K-TA-XX1	Tenon Arm (single) adjustable (2%" O.D. tenon)
ARM-F-TK-TA-XX1	Tenon Arm (double 180°) adjustable (2¾° 0.D. tenon)
ARM-F-K-S-XX1,2	Adjustable Arm
ARM-F-4-S-XX1,2	4" Rigid Straight Arm
ARM-F-10-S-XX1,2	10" Rigid Straight Arm
SSS-490-XX ²	Square Pole Tenon Adapter (4 @ 90°)
	(2 ³ /8"-2 ⁷ /8" OD tenon)
RSS-490-XX ²	Round Pole Tenon Adapter (4 @ 90°)
	(23/8"-27/8" OD tenon) (requires 4" round pole adapter)
RSS-3120-XX ²	Round Pole Tenon Adapter (3 @ 120°)
	(23/8"-27/8" OD tenon) (requires 4" round pole adapter)

Replace \boldsymbol{XX} with color choice, eg.: \boldsymbol{DB} for Dark Bronze.

PHOTOCONTROL EQUIPMENT

CATALOG #	DESCRIPTION
PTL-1	Photocontrol - Twist-Lock Cell (120V)
PTL-8	Photocontrol - Twist-Lock Cell (120-277V)
PTL-5	Photocontrol - Twist-Lock Cell (480V)
PTL-6	Photocontrol - Twist-Lock Cell (347V)
PSC	Shorting Cap - Twist-Lock



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For more information visit our web site: **www.spauldinglighting.com**

² When ordering poles, specify Pole Drill Pattern #2.