
sesco lighting

SESCO'S GUARANTEE TAKES THE **III** OUT OF **III**UMINATION[®]

GOODWILL VERO BEACH – INTERIOR LIGHTING

PROJECT # 16-3370



SUBMITTED TO:

ARCH. – STEVE BRASGALLA ARCHITECTURE

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Atlanta, GA. - Fort Myers, FL. – Jacksonville, FL. - Jupiter, FL.– Winter Park(HQ), FL. – San Juan, Puerto Rico – Tampa, FL –
West Palm Beach, FL - Knoxville, TN.- Chattanooga, TN. – Nashville, TN.



SESCO Lighting

WE TAKE THE *///* OUT OF *///*UMINATION

Project: GOODWILL VERO BEACH - INTERIOR LIGHTING # 16-3370

Contents - August 1, 2016

Type	Factory	Description
A	H. E. Williams	GL-4-6-32-WD-VBY-2-EB3/3-UNV
A-EM	H. E. Williams	GL-4-6-32-WD-VBY-2-EB3/3-UNV / EM1400(T8)/1
B	H. E. Williams	50-G-S24-432-SA12125-EB4-UNV
C	Beghelli	VA4-R-SA-AT
D	Beghelli	PEH-AT
E	Beghelli	PCH-G-AT



LOW-PROFILE T8 INDUSTRIAL

GL

SUBMITTAL: **GL-4-6-32-WD-VBY-2-EB3/3-UNV**

4- or 6-Lamp T8

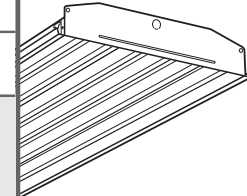
JOB:

TYPE:

VOLTAGE:

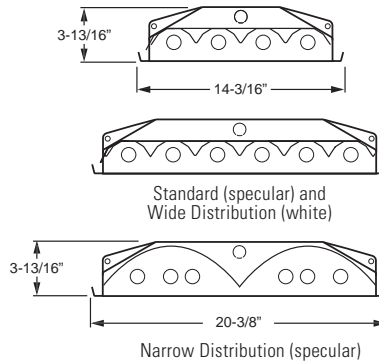
EXAMPLE **GL - 4 - 6 32 - OPTIONS - EBHW3/3 - UNV**

SERIES
NOMINAL LENGTH
TOTAL WATTAGE/LAMPS TYPE
OPTIONS/ACCESSORIES
BALLAST TYPE
VOLTAGE



FEATURES

- ▶ Up to **97.4% optical efficiency**.
- ▶ Optional energy-saving occupancy sensors available, see Fluorescent Information section.
- ▶ Six-lamp unit consumes half the energy of 400-watt HID.
- ▶ Shallow depth of less than 4" allows fixture placement near the ceiling for maximum space utilization and reduces damage incurred from material handling equipment.
- ▶ Easy access to ballast without the removal of lamps or use of tools.
- ▶ Quick-wire access plate in back of fixture housing for easy attachment of incoming power supply.
- ▶ Variety of mounting options.
- ▶ This fixture is proudly made in the USA.



SPECIFICATIONS

Housing – 20-gauge die-formed C.R.S.
Reflector – Precision-formed 95% reflective highly specular aluminum.
Finish – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
Electrical – Electronic ballast standard, instant start T8, rated Class P.
Mounting – Suspended (see options in ordering information).
Labels – UL/CUL listed as fluorescent luminaire suitable for dry or damp locations.

ORDERING INFORMATION

SERIES

▶ **GL** Low-Profile T8 Industrial

NOMINAL LENGTH

▶ **4** 4' 8 8'

TOTAL LAMPS

▶ **4 or 6** 4' length 8 or 12 8' length

LAMP WATTAGE/TYPE

▶ **32** 4', 32-watt T8

OPTIONS/ACCESSORIES

For generic **EM ballast** and **occupancy sensor**¹ options (must specify voltage), see Fluorescent Information section. See Fluorescent Information section for accessories.

- ND** Narrow distribution (specular reflector, 4-lamp narrow distribution uses 6-lamp fixture housing)
- ▶ **WD** Wide distribution (white reflector)
- UP5** Uplight apertures—5% uplight
- VBY** (2) Y-hangers
- ▶ **VBY-2** (2) Y-hangers and (2) 2' chains
- GC2/Y18/5** Cable suspension kit, 5' length (1 pair)
- GC2/Y18/10** Cable suspension kit, 10' length (1 pair)
- 3SB** 3" spacer bracket (1 pair)
- HUB MT 3/4"** Cast iron hub and junction box for single 3/4" pendant mount (shipped not attached, 4' unit only)
- HUB/HOOK MT** Cast iron hub with mounting hook (shipped not attached, 4' unit only)
- HOOK/CABLE** Hook and cable mounting kit, 10'

OPTIONS/ACCESSORIES (Continued)

- S7238/B** 72" cord, 3-conductor, No. 18 AWG, black
- 6CPI/L5-15P/TWLK** 6' cord and NEMA twistlock 15 AMP plug, 120V
- 6CPI/L7-15P/TWLK** 6' cord and NEMA twistlock 15 AMP plug, 277V
- PHSCHA118** Piano hinge steel door frame, clear, high-temperature, non-prismatic acrylic, .118" thick
- SCHA118** Steel door frame, clear, high-temperature, non-prismatic acrylic, .118" thick
- WG11** 11-gauge wireguard, white powder coated

BALLAST TYPE

- EB4** 4-lamp electronic ballast
- ▶ **EB3/3** (2) 3-lamp electronic ballasts
- EBHW3/3** (2) 3-lamp high-wattage electronic ballasts
- EB4/2** (1) 4-lamp and (1) 2-lamp electronic ballast
- EB4/4** (2) 4-lamp electronic ballasts
- EB4/4/4** (3) 4-lamp electronic ballasts

VOLTAGE

- Must specify voltage (not UNV) if using modular wiring, cord and plug, or occupancy sensor.
- 120** 120V
 - 277** 277V
 - ▶ **UNV** (20-277V)
 - 347** 347V

¹ Program start ballast recommended to avoid shortened lamp life.



GL

4- or 6-Lamp T8

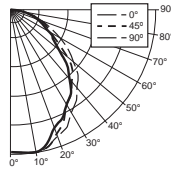
LOW-PROFILE T8 INDUSTRIAL

PHOTOMETRY – STANDARD DISTRIBUTION

Catalog #: **GL-4-632-EBHW3/3**

TEST REPORT INFORMATION

- ▶ Test Report #: 12158.1
- ▶ Date: 12/29/03
- ▶ Ballast Factor: 1.2
- ▶ Lamp Type: F32T8/835/RS
- ▶ Lumens: 2950
- ▶ Lamp Quantity: 6



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	6390.	30.1	30.9
0 - 40	10208.	48.1	49.3
0 - 60	16930.	79.7	81.8
0 - 90	20691.	97.4	100.0
Total Luminaire:			
0 - 180	20691.	97.4	100.0

Total Luminaire Optical Efficiency: **97.4%**¹
IES Spacing Criteria: End = 1.3, Diagonal = 1.2, Across = 1.2

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	8113.	8113.	8113.	
5	8146.	8183.	8201.	781.3
15	8101.	8137.	7937.	2298.6
25	7455.	7074.	6874.	3310.0
35	6419.	5910.	5910.	3818.3
45	5382.	4928.	4473.	3763.3
55	3945.	3255.	2909.	2959.0
65	2509.	1927.	2182.	2138.6
75	1181.	1236.	1418.	1295.4
85	144.	345.	326.	326.3
90	0.	0.	0.	

ZONAL CAVITY COEFFICIENTS

Ceiling	.80			.70			.50			
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10
0	1.16	1.16	1.16	1.13	1.13	1.13	1.08	1.08	1.08	
1	1.07	1.03	.99	1.05	1.01	.97	.97	.94	.91	
2	.99	.91	.85	.96	.90	.84	.86	.81	.77	
3	.91	.91	.74	.88	.80	.73	.77	.71	.67	
4	.84	.73	.65	.81	.72	.64	.69	.63	.58	
5	.77	.65	.57	.75	.64	.56	.62	.55	.50	
6	.71	.58	.50	.69	.57	.50	.56	.49	.44	
7	.65	.53	.44	.64	.52	.44	.50	.43	.38	
8	.60	.47	.39	.59	.47	.39	.45	.38	.33	
9	.56	.43	.35	.54	.42	.34	.41	.34	.29	
10	.52	.39	.31	.50	.38	.31	.37	.30	.26	

Effective Floor Cavity Reflectance = .20

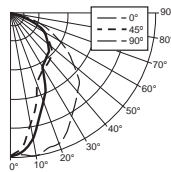
¹ Tested with a 1.2 ballast factor.

GL PHOTOMETRY – NARROW DISTRIBUTION

Catalog #: **GL-4-632-ND-EB3/3**

TEST REPORT INFORMATION

- ▶ Test Report #: 13472.0
- ▶ Date: 02/21/07
- ▶ Lamp Type: F32T8/835/RS
- ▶ Lumens: 2950
- ▶ Lamp Quantity: 6



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	5403.	30.5	31.7
0 - 40	8203.	46.3	48.2
0 - 60	13735.	77.6	80.7
0 - 90	17027.	96.2	100.0
Total Luminaire:			
0 - 180	17027.	96.2	100.0

Total Luminaire Optical Efficiency: **96.2%**
IES Spacing Criteria: End = 1.2
Diagonal = .08
Across = 0.7

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	8942.	8942.	8942.	
5	8898.	8720.	8399.	829.7
15	8748.	6749.	5999.	2012.1
25	8198.	5113.	4321.	2561.4
35	6949.	3706.	3971.	2800.1
45	5999.	3371.	3663.	2904.3
55	4385.	2785.	2907.	2627.7
65	2813.	1964.	2028.	2029.2
75	1285.	1050.	921.	1096.0
85	171.	135.	128.	166.8
90	0.	0.	0.	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	5403.	30.5	31.7
0 - 40	8203.	46.3	48.2
0 - 60	13735.	77.6	80.7
0 - 90	17027.	96.2	100.0
Total Luminaire:			
0 - 180	17027.	96.2	100.0

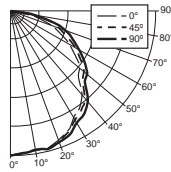
Total Luminaire Optical Efficiency: **96.2%**
IES Spacing Criteria: End = 1.2
Diagonal = .08
Across = 0.7

GL PHOTOMETRY – WIDE DISTRIBUTION

Catalog #: **GL-4-632-WD-EB3/3**

TEST REPORT INFORMATION

- ▶ Test Report #: 14801.0
- ▶ Date: 08/03/09
- ▶ Lamp Type: F32T8/835/RS
- ▶ Lumens: 2950
- ▶ Lamp Quantity: 6



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	4248.	24.0	25.8
0 - 40	7028.	39.7	42.7
0 - 60	12502.	70.6	75.9
0 - 90	16475.	93.1	100.0
Total Luminaire:			
0 - 180	16475.	93.1	100.0

Total Luminaire Optical Efficiency: **93.1%**
IES Spacing Criteria: End = 1.3
Diagonal = 1.3
Across = 1.3

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	5299.	5299.	5299.	
5	5270.	5254.	5254.	501.7
15	5186.	5203.	5235.	1475.9
25	4841.	4897.	4985.	2270.3
35	4295.	4415.	4592.	2780.5
45	3395.	3604.	3741.	2771.9
55	2809.	3034.	3187.	2701.6
65	1966.	2199.	2424.	2184.0
75	1083.	1437.	1565.	1445.6
85	176.	337.	337.	343.5
90	0.	0.	0.	

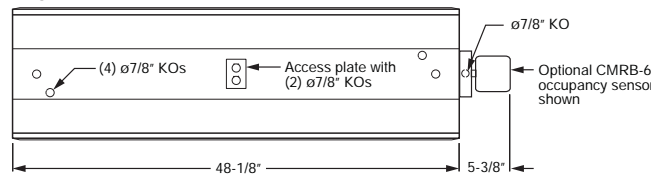
LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	4248.	24.0	25.8
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Total Luminaire:			
0 - 180	16475.	93.1	100.0

Total Luminaire Optical Efficiency: **93.1%**
IES Spacing Criteria: End = 1.3
Diagonal = 1.3
Across = 1.3

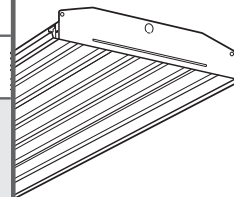
FIXTURE DETAILS

BACK VIEW



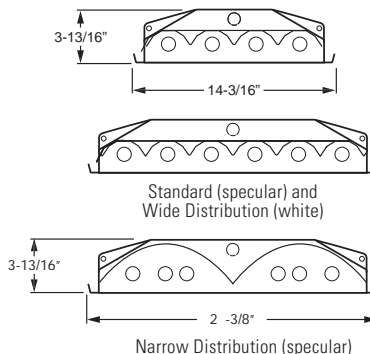


LOW-PROFILE T8 INDUSTRIAL		GL
SUBMITTAL:	GL-4-6-32-WD-VBY-2-EB3/3-UNV / EM1400(T8)/1	4- or 6-Lamp T8
JOB:		
TYPE:		
VOLTAGE:		
<p>EXAMPLE GL - 4 - 6 32 - OPTIONS - EBHW3/3 - UNV</p> <p> SERIES NOMINAL LENGTH TOTAL WATTAGE/LAMPS / TYPE OPTIONS/ACCESSORIES BALLAST TYPE VOLTAGE </p>		



FEATURES

- ▶ Up to **97.4% optical efficiency**.
- ▶ Optional energy-saving occupancy sensors available, see Fluorescent Information section.
- ▶ Six-lamp unit consumes half the energy of 400-watt HID.
- ▶ Shallow depth of less than 4" allows fixture placement near the ceiling for maximum space utilization and reduces damage incurred from material handling equipment.
- ▶ Easy access to ballast without the removal of lamps or use of tools.
- ▶ Quick-wire access plate in back of fixture housing for easy attachment of incoming power supply.
- ▶ Variety of mounting options.
- ▶ This fixture is proudly made in the USA.



SPECIFICATIONS

Housing – 20-gauge die-formed C.R.S.
Reflector – Precision-formed 95% reflective highly specular aluminum.
Finish – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
Electrical – Electronic ballast standard, instant start T8, rated Class P.
Mounting – Suspended (see options in ordering information).
Labels – UL/CUL listed as fluorescent luminaire suitable for dry or damp locations.

ORDERING INFORMATION

SERIES	GL Low-Profile T8 Industrial
NOMINAL LENGTH	4 4' 8 8'
TOTAL LAMPS	4 or 6 4' length 8 or 12 8' length
LAMP WATTAGE/TYPE	32 4', 32-watt T8
OPTIONS/ACCESSORIES	For generic EM ballast and occupancy sensor ¹ options (must specify voltage), see Fluorescent Information section. See Fluorescent Information section for accessories. ND Narrow distribution (specular reflector, 4-lamp narrow distribution uses 6-lamp fixture housing) WD Wide distribution (white reflector) UP5 Uplight apertures—5% uplight VBY (2) Y-hangers VBY-2 (2) Y-hangers and (2) 2' chains GC2/Y18/5 Cable suspension kit, 5' length (1 pair) GC2/Y18/10 Cable suspension kit, 10' length (1 pair) 3SB 3" spacer bracket (1 pair) HUB MT 3/4" Cast iron hub and junction box for single 3/4" pendant mount (shipped not attached, 4' unit only) HUB/HOOK MT Cast iron hub with mounting hook (shipped not attached, 4' unit only) HOOK/CABLE Hook and cable mounting kit, 10'

OPTIONS/ACCESSORIES (Continued)	
S7238/B	72" cord, 3-conductor, No. 18 AWG, black
6CPI/L5-15P/TWLK	6' cord and NEMA twistlock 15 AMP plug, 120V
6CPI/L7-15P/TWLK	6' cord and NEMA twistlock 15 AMP plug, 277V
PHSCHA118	Piano hinge steel door frame, clear, high-temperature, non-prismatic acrylic, .118" thick
SCHA118	Steel door frame, clear, high-temperature, non-prismatic acrylic, .118" thick
WG11	11-gauge wireguard, white powder coated
BALLAST TYPE	
EB4	4-lamp electronic ballast
EB3/3	(2) 3-lamp electronic ballasts
EBHW3/3	(2) 3-lamp high-wattage electronic ballasts
EB4/2	(1) 4-lamp and (1) 2-lamp electronic ballast
EB4/4	(2) 4-lamp electronic ballasts
EB4/4/4	(3) 4-lamp electronic ballasts
VOLTAGE	Must specify voltage (not UNV) if using modular wiring, cord and plug, or occupancy sensor.
120	120V
277	277V
UNV	120-277V
347	347V

¹ Program start ballast recommended to avoid shortened lamp life.



GL

LOW-PROFILE T8 INDUSTRIAL

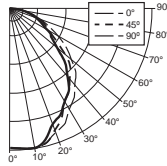
4- or 6-Lamp T8

PHOTOMETRY – STANDARD DISTRIBUTION

Catalog #: **GL-4-632-EBHW3/3**

TEST REPORT INFORMATION

- ▶ Test Report #: 12158.1
- ▶ Date: 12/29/03
- ▶ Ballast Factor: 1.2
- ▶ Lamp Type: F32T8/835/RS
- ▶ Lumens: 2950
- ▶ Lamp Quantity: 6



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	6390.	30.1	30.9
0 - 40	10208.	48.1	49.3
0 - 60	16930.	79.7	81.8
0 - 90	20691.	97.4	100.0
Total Luminaire:			
0 - 180	20691.	97.4	100.0

Total Luminaire Optical Efficiency: **97.4%**¹
IES Spacing Criteria: End = 1.3, Diagonal = 1.2, Across = 1.2

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	8113.	8113.	8113.	
5	8146.	8183.	8201.	781.3
15	8101.	8137.	7937.	2298.6
25	7455.	7074.	6874.	3310.0
35	6419.	5910.	5910.	3818.3
45	5382.	4928.	4473.	3763.3
55	3945.	3255.	2909.	2959.0
65	2509.	1927.	2182.	2138.6
75	1181.	1236.	1418.	1295.4
85	144.	345.	326.	326.3
90	0.	0.	0.	

ZONAL CAVITY COEFFICIENTS

Room Cavity Ratio	Ceiling			Wall			Floor		
	.80	.70	.50	.70	.50	.30	.50	.30	.10
0	1.16	1.16	1.16	1.13	1.13	1.13	1.08	1.08	1.08
1	1.07	1.03	.99	1.05	1.01	.97	.97	.94	.91
2	.99	.91	.85	.96	.90	.84	.86	.81	.77
3	.91	.91	.74	.88	.80	.73	.77	.71	.67
4	.84	.73	.65	.81	.72	.64	.69	.63	.58
5	.77	.65	.57	.75	.64	.56	.62	.55	.50
6	.71	.58	.50	.69	.57	.50	.56	.49	.44
7	.65	.53	.44	.64	.52	.44	.50	.43	.38
8	.60	.47	.39	.59	.47	.39	.45	.38	.33
9	.56	.43	.35	.54	.42	.34	.41	.34	.29
10	.52	.39	.31	.50	.38	.31	.37	.30	.26

Effective Floor Cavity Reflectance = .20

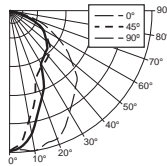
¹ Tested with a 1.2 ballast factor.

GL PHOTOMETRY – NARROW DISTRIBUTION

Catalog #: **GL-4-632-ND-EB3/3**

TEST REPORT INFORMATION

- ▶ Test Report #: 13472.0
- ▶ Date: 02/21/07
- ▶ Lamp Type: F32T8/835/RS
- ▶ Lumens: 2950
- ▶ Lamp Quantity: 6



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	5403.	30.5	31.7
0 - 40	8203.	46.3	48.2
0 - 60	13735.	77.6	80.7
0 - 90	17027.	96.2	100.0
Total Luminaire:			
0 - 180	17027.	96.2	100.0

Total Luminaire Optical Efficiency: **96.2%**
IES Spacing Criteria: End = 1.2
Diagonal = .08
Across = 0.7

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	8942.	8942.	8942.	
5	8898.	8720.	8399.	829.7
15	8748.	6749.	5999.	2012.1
25	8198.	5113.	4321.	2561.4
35	6949.	3706.	3971.	2800.1
45	5999.	3371.	3663.	2904.3
55	4385.	2785.	2907.	2627.7
65	2813.	1964.	2028.	2029.2
75	1285.	1050.	921.	1096.0
85	171.	135.	128.	166.8
90	0.	0.	0.	

LUMEN SUMMARY

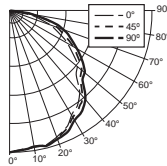
Zone	Lumens	% Lamp	% Fixture
0 - 30	5403.	30.5	31.7
0 - 40	8203.	46.3	48.2
0 - 60	13735.	77.6	80.7
0 - 90	17027.	96.2	100.0
Total Luminaire:			
0 - 180	17027.	96.2	100.0

GL PHOTOMETRY – WIDE DISTRIBUTION

Catalog #: **GL-4-632-WD-EB3/3**

TEST REPORT INFORMATION

- ▶ Test Report #: 14801.0
- ▶ Date: 08/03/09
- ▶ Lamp Type: F32T8/835/RS
- ▶ Lumens: 2950
- ▶ Lamp Quantity: 6



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	4248.	24.0	25.8
0 - 40	7028.	39.7	42.7
0 - 60	12502.	70.6	75.9
0 - 90	16475.	93.1	100.0
Total Luminaire:			
0 - 180	16475.	93.1	100.0

Total Luminaire Optical Efficiency: **93.1%**
IES Spacing Criteria: End = 1.3
Diagonal = 1.3
Across = 1.3

CANDLEPOWER DISTRIBUTION

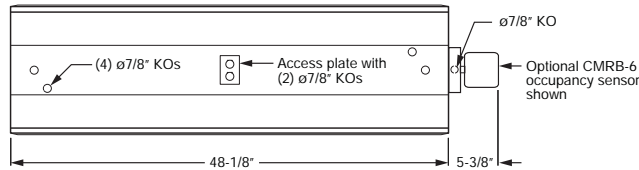
Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	5299.	5299.	5299.	
5	5270.	5254.	5254.	501.7
15	5186.	5203.	5235.	1475.9
25	4841.	4897.	4985.	2270.3
35	4295.	4415.	4592.	2780.5
45	3395.	3604.	3741.	2771.9
55	2809.	3034.	3187.	2701.6
65	1966.	2199.	2424.	2184.0
75	1083.	1437.	1565.	1445.6
85	176.	337.	337.	343.5
90	0.	0.	0.	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	4248.	24.0	25.8
0 - 40	7028.	39.7	42.7
0 - 60	12502.	70.6	75.9
0 - 90	16475.	93.1	100.0
Total Luminaire:			
0 - 180	16475.	93.1	100.0

FIXTURE DETAILS

BACK VIEW





Generic Emergency Lighting Ballast Options

INFORMATION

Lumen values appearing in catalog number and lumen ranges indicated below are approximate and based on battery performance when used with primary lamp type.

= Shaded areas indicate availability. = Primary Lamp Type

WILLIAMS OPTION CODE	DESCRIPTION	LUMEN RANGE	T8						LONG TWIN TUBE					
			17	25	32	40	59	86	18TT	40TT	50TT	55TT		
EM500(T8)/1	1-lamp EM	350-475			✓									
EM700(T8)/1	1-lamp EM	450-700			✓									
EM700(T8)/2	2-lamp EM	650-675			✓									
➔ EM1400(T8)/1	1-lamp EM	1050-1400			✓			✓						
EM1400(T8)/2	2-lamp EM	950-1350			✓									
EM1400ST(T8)/1	1-lamp EM	900-1400			✓			✓						
EM1400ST(T8)/2	2-lamp EM	950-1350			✓									
EM3000(T8)/1 BACK MOUNT	1-lamp EM	1800-3000			✓			✓	✓					
EM3000(T8)/1 REMOTE	1-lamp EM	1800-3000			✓			✓	✓					
EM3000(T8)/2 BACK MOUNT	2-lamp EM	2600-3000			✓									
EM3000(T8)/2 REMOTE	2-lamp EM	2600-3000			✓									
EM3000ST(T8)/1 BACK MOUNT	1-lamp EM	2500-3000			✓				✓					
EM3000ST(T8)/1 REMOTE MOUNT	1-lamp EM	2500-3000			✓				✓					

T5								
WILLIAMS OPTION CODE	DESCRIPTION	LUMEN RANGE	14T5S	21T5S	28T5S	24T5H	39T5H	54T5H
EM500(T5S)/1	1-lamp EM	375-500			✓			
EM700(T5)/1	1-lamp EM	430-800			✓			✓
EM1400(T5)/1	1-lamp EM	700-1300			✓			✓
EM1400ST(T5)/1	1-lamp EM	725-1250			✓			✓
EM3000(T5)/1 BACK MOUNT	1-lamp EM	1850-2700						✓
EM3000(T5)/1 REMOTE	1-lamp EM	1850-2700						✓
EM3000ST(T5)/1 BACK MOUNT	1-lamp EM	1850-2650						✓
EM3000ST(T5)/1 REMOTE MOUNT	1-lamp EM	1850-2650						✓

NOTES

- When specifying generic ballasts, factory selects manufacturer and model.
- When multiple lamp operation is selected, lumen output is evenly distributed between lamps.
- Emergency ballasts provide illumination for a minimum of 90 minutes.
- Standard emergency ballasts are UL listed for dry locations only.
- Generic EM ballasts are not available on all fixtures due to size restrictions. Please consult specification sheets.

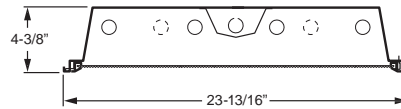
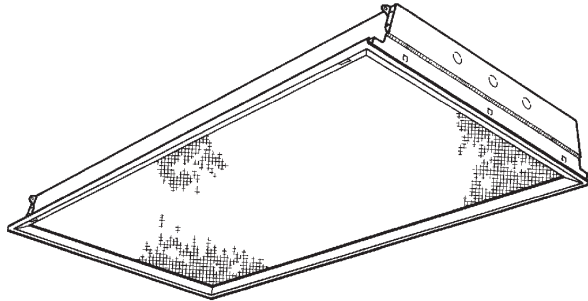




2' x 4' STATIC TROFFER

SERIES **50**
STATIC

VOLTAGE TYPE JOB _____
TYPE _____
JOB _____



SPECIFICATIONS

- **Housing** – 22-gauge die-formed C.R.S.
- **Door Frame** – 20-gauge C.R.S. or .050" extruded aluminum, flat or regress, with mitered corners. T-slot steel hinge allows reversible hinging and latching.
- **Shielding** – #12 pattern, .125" acrylic overlay standard—other patterns and thicknesses available.
- **Finish** – 92% minimum average reflective white powder coat with multi-stage iron/phosphate prepared metal.
- **Electrical** – Electronic ballast standard, instant start T8, programmed start T5, rated Class P.
- **Labels** – UL/CUL listed as recessed fluorescent luminaire suitable for dry or damp locations.
- **Mounting** – NEMA Type "G" standard. NEMA Type "F" available.

FEATURES

- Fully-enclosed spring-loaded cam latches allow years of hassle-free maintenance.
- T-slot steel hinge ensures positive retention when door is opened.
- Meets many energy rebate requirements with the high efficiency HIEF option.
- 4-3/8" deep housing eliminates lens shadowing.
- Deep reinforcement ribs provide added strength.
- Rolled-edge channel adds superior strength.
- Optional anti-microbial powder coating available to prevent the spread of dangerous micro-organisms and suppress the growth of mold and bacteria.
- Integral T-bar clips quickly secure fixture to structure.
- Field convertible to NEMA Type "F".
- Fully gasketed door minimizes contaminants.
- All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- This fixture is proudly made in the USA.

ORDERING INFORMATION

Submittal

EXAMPLE: **50** **G** - **S** **2** **4** - **3** **32** - **S** **A12125** - **OPTIONS** - **EB3** - **120**

SERIES

➔ **50** Static Troffer (No air handling)

CEILING TYPE

➔ **G** NEMA Type "G"
F NEMA Type "F" (field convertible)

FIXTURE STYLE

➔ **S** Full door frame, no reveal

NOMINAL WIDTH

➔ **2** 2'

NOMINAL LENGTH

➔ **4** 4'

TOTAL LAMPS

➔ **2, 3, 4, or 6**

Note: For more options/accessories, ballast combinations, and product details, please consult factory.

LAMP WATTAGE/TYPE

➔ **28T55** 4', 28-watt T5
➔ **32** 4', 32-watt T8
54T5H 4', 54-watt T5HO (4 lamps max.)

DOOR FRAME TYPE

➔ **S** White Flat steel
F White Flat aluminum
R White Regress aluminum
SB Black flat steel
FB Black Flat aluminum
RB Black Regress aluminum

SHIELDING

➔ **A12125** #12 pattern acrylic, .125" thick
A19156 #19 pattern acrylic, .156" thick
PC15S Nominal 1/2"x1/2"x1/2" silver polystyrene
PC25S Nominal 1-1/2"x1-1/2"x1" silver polystyrene

OPTIONS

HIEF High Efficiency (T8 only)
F338 6', 3/8" flex, 3 conductor, No. 18 AWG
AMW Anti-microbial white finish

BALLAST TYPE

EB2 2-lamp electronic ballast
EB3 3-lamp electronic ballast
➔ **EB4** 4-lamp electronic ballast
EB2/1 (1) 2-lamp & (1) 1-lamp electronic ballast
EB2/2 (2) 2-lamp electronic ballasts
EB3/3 (2) 3-lamp electronic ballasts
EB4/2 (1) 4-lamp & (1) 2-lamp electronic ballast

VOLTAGE

120 120V ➔ **UNV** 120 - 277V
277 277V **347** 347V



FLUORESCENT LIGHTING

Submitting Agency:



SESCO Lighting
737 Shotgun Road, Ft. Lauderdale, FL 33326
Tel: (954) 474-9888 Fax: (954) 474-9773

Description: **50-G-S24-432-SAI2125-EB4-UNV**

Project: **GOODWILL VERO BEACH - INTERIOR LIGHTING # 16-3370**

Notes:

Type:

B

50 SERIES | PHOTOMETRY INFORMATION

STANDARD

Williams Catalog #50G-S24-332-SAI2125-EB3 Test Report #8417.0, Dated 08/18/95 Ballast Factor: 1.0
Lamp Type: F32T8/735/RS Lamp Quantity: 3

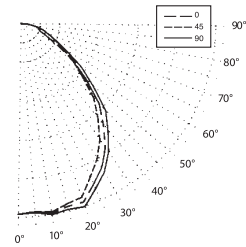
CANDLEPOWER DISTRIBUTION

VERT. ANG.	HORIZONTAL ANGLE			ZONAL LUMENS
	0	45	90	
0	2809.	2809.	2809.	
5	2781.	2778.	2789.	265.6
15	2740.	2780.	2820.	788.4
25	2478.	2589.	2665.	1194.5
35	2055.	2198.	2282.	1372.1
45	1527.	1643.	1775.	1275.1
55	935.	956.	1083.	889.3
65	537.	405.	556.	466.7
75	328.	263.	338.	301.8
85	119.	119.	130.	133.5
90	0.	0.	0.	

LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXTURE
0 - 30	2248.	26.3	33.6
0 - 40	3621.	42.3	54.1
0 - 60	5785.	67.7	86.5
0 - 90	6687.	78.2	100.0
90 - 120	0.	0.0	0.0
90 - 130	0.	0.0	0.0
90 - 150	0.	0.0	0.0
90 - 180	0.	0.0	0.0
0 - 180	6687.	78.2	100.0

TOTAL LUMINAIRE OPTICAL EFFICIENCY = 78.2%
SPACING CRITERIA: END = 12 ACROSS = 13



HIEF OPTION

Williams Catalog #50G-S24-232-SAI2125-HIEF-EB2 Test Report #12329.1, Dated 06/23/04 Ballast Factor: 1.0
Lamp Type: F32T8/835/RS Lamp Quantity: 2

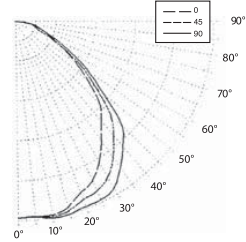
CANDLEPOWER DISTRIBUTION

VERT. ANG.	HORIZONTAL ANGLE			ZONAL LUMENS
	0	45	90	
0	1956.	1956.	1956.	
5	1950.	1950.	1953.	186.3
15	1918.	1955.	1990.	554.0
25	1760.	1868.	1962.	862.8
35	1468.	1668.	1794.	1034.6
45	1182.	1326.	1487.	1029.9
55	729.	800.	880.	722.1
65	401.	366.	456.	393.9
75	239.	198.	225.	224.5
85	88.	86.	78.	95.7
90	0.	0.	0.	

LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXTURE
0 - 30	1603.	27.2	31.4
0 - 40	2638.	44.7	51.7
0 - 60	4390.	74.4	86.0
0 - 90	5104.	86.5	100.0
90 - 120	0.	0.0	0.0
90 - 130	0.	0.0	0.0
90 - 150	0.	0.0	0.0
90 - 180	0.	0.0	0.0
0 - 180	5104.	86.5	100.0

TOTAL LUMINAIRE OPTICAL EFFICIENCY = 86.5%
SPACING CRITERIA: END = 12 DIAG. = 13 ACROSS = 14



HIEF OPTION

Williams Catalog #50G-S24-332-SAI2125-HIEF-EB3 Test Report #12252.1, Dated 03/31/04 Ballast Factor: 1.0
Lamp Type: F32T8/835/RS Lamp Quantity: 3

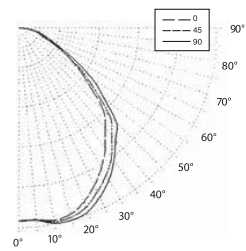
CANDLEPOWER DISTRIBUTION

VERT. ANG.	HORIZONTAL ANGLE			ZONAL LUMENS
	0	45	90	
0	2889.	2889.	2889.	
5	2885.	2890.	2894.	275.9
15	2901.	2947.	2991.	835.2
25	2635.	2738.	2824.	1265.6
35	2236.	2396.	2459.	1486.8
45	1786.	1921.	2055.	1486.6
55	1077.	1145.	1315.	1051.0
65	601.	544.	645.	580.2
75	321.	288.	355.	327.0
85	115.	125.	132.	139.6
90	14.	23.	23.	

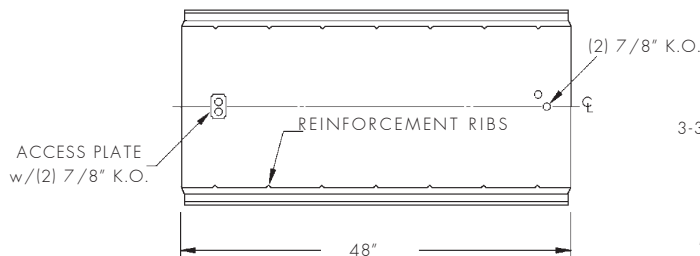
LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXTURE
0 - 30	2377.	26.9	31.9
0 - 40	3864.	43.7	51.9
0 - 60	6401.	72.3	85.9
0 - 90	7448.	84.2	100.0
90 - 120	0.	0.0	0.0
90 - 130	0.	0.0	0.0
90 - 150	0.	0.0	0.0
90 - 180	0.	0.0	0.0
0 - 180	7448.	84.2	100.0

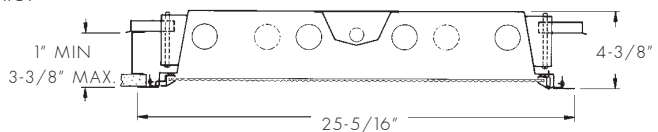
TOTAL LUMINAIRE OPTICAL EFFICIENCY = 84.2%
SPACING CRITERIA: END = 13 DIAG. = 13 ACROSS = 13



BACK VIEW



CROSS SECTION NEMA TYPE "F" INSTALLATION



MAXIMUM RECOMMENDED CEILING OPENING IS 24-3/8" X 48-3/8"
For continuous row mounting, add 49-5/16" for each additional fixture to obtain ceiling opening. 1-5/16" between end plates.



H.E. WILLIAMS, INC.

H.E. Williams, Inc. • Carthage, Missouri • www.hewilliams.com • 417-358-4065 • Fax: 417-358-6015
Information contained herein is subject to change without notice. HEWJP43204RJ REV.07/03/14



VA4

INDOOR | DAMP



HOME

Job/Location: _____
 Contractor: _____ Job Type: _____
 Prepared By: _____ Date: _____

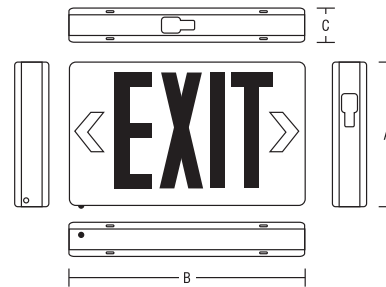


■ **specifications: internal**

The VA4 comes standard configured with high output LEDs, 120/277V input, available in red or green. AC only and Self powered versions are available. Nickel-cadmium batteries provide a minimum 90 minutes of emergency duration. Electronic cut-off circuit prevents over discharge.

■ **specifications: external**

The VA4 is constructed from durable corrosion and flame resistant thermoplastic. The VA4 comes standard with a mounting canopy, two (2) stencils, one (1) backplate, removable chevrons and all mounting hardware. The VA4 comes standard finished in white; optional black finish is available. A damp location rating is standard on all VA4 products. An external LED status indicator and test switch is standard on all self-powered models.



Series	A	B	C
VA4	7.5" 191mm	12" 305mm	1.5" 38mm

■ **ordering logic**

Series	LED	Model	Options
→ VA4	→ R (red) G (green)	HT (AC only) → SA (self-powered)	→ AT (autotest) B (black finish) SG¹ (shield guard)

NOTE 1: Shield guard must be ordered as a separate line item #276100035.

EXAMPLE: VA4-R-HT-B
 DESCRIPTION: Red LED, AC only, black housing



Technical

■ specifications: electrical

BATTERY: The VA4 is designed with a maintenance free, sealed Nickel-Cadmium battery providing a minimum emergency duration of 90 minutes. Recharge time of the battery is twenty-four (24) hours. The maximum battery working temperature is 45°C. The minimum working temperature is 10°C.

CIRCUIT: The VA4 has a 120/277V solid state transformer. Low voltage disconnect and brownout protection are standard. Red or green LEDs.

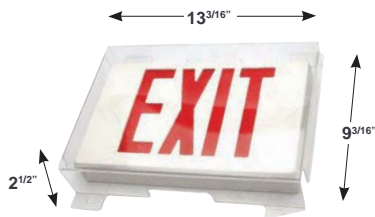
- Red LED - 3.2W
- Green LED - 3.8W

■ specifications: mechanical

The low profile design of the VA4 exit provides a clean, attractive and affordable solution. The durable thermoplastic housing is corrosion and flame resistant. The VA4 stencils include removable chevrons that allow for easy "in the field" installation decisions. The modern and efficient design of the VA4 allows for wall, ceiling or end mounting. Canopy and all installation hardware are included.

■ specifications: shield guard

High-impact vandal-resistant polycarbonate shield guard optional. Mounting hardware provided for easy installation in the field.



■ specifications: special voltage & SALIDA face plate

Special voltage and SALIDA face plate options available. Check with your Beghelli representative for more information.



■ self-powered

The VA4-SA self-powered is designed to operate on battery power in the event of a regular / mains power failure. Both the battery and charger are completely contained within the standard enclosure. There are no external components and no alterations made to the external dimensions of the standard sign. The VA4-SA self-powered utilizes a solid state transformer technology that eliminates the possibility of relay failure due to particle build up on the relay. Status is easily determined via an LED that indicates AC-ON. A push button test switch allows maintenance personnel to quickly confirm the operational status of the exit on AC fail.

■ warranty

The VA4 comes with a 5-year factory warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.



PACO (PEH)

INDOOR | DAMP



HOME

Job/Location: _____	Job Type: _____
Contractor: _____	Date: _____
Prepared By: _____	

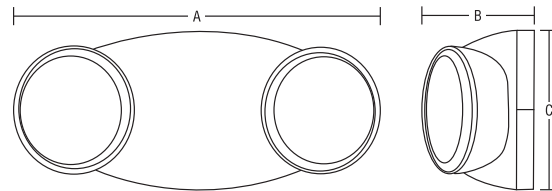


■ specifications: internal

The PACO uses a rechargeable, maintenance free nickel cadmium battery. Configured with 120/277V input. The circuit board features an onboard solid state transformer, low voltage disconnect and brownout protection.

■ specifications: external

The PACO is constructed from high impact, UV-stabilized, UL 94 V-0 plastic. The Paco comes standard in a white finish, option for black is available. Two fully adjustable 1.5W LED lamp heads ensure emergency lighting performance, accurate positioning and reduced maintenance. Universal mounting plate and quick snap design speeds installation. Easy field wiring & durable construction suitable for surface wall or ceiling installations.



Series	A	B	C
PEH-1	9" 229mm	3.25" 83mm	4.75" 121mm

■ ordering logic

Series	Options
→ PEH-1	→ AT (autotest) B (black finish) RC! (remote capable)

NOTE 1: Max load per unit: 3.4W

EXAMPLE: PEH-1-B
DESCRIPTION: emergency only, black housing



Technical

HOME

■ emergency heads

PACO is remote capable of operating 2, single head remotes or 1 double head remote. Max load per unit: 3.4W. Remote heads are available.

■ specifications: electrical

BATTERY: The PACO uses a rechargeable, maintenance free 3.6V 900mAH nickel cadmium battery that provides minimum emergency duration of 90 minutes. The recharge time of the battery is 24 hours. The maximum working temperature is 45°C. The minimum working temperature is 10°C.

■ specifications: mechanical

The PACO ideal for use in hotels, offices, restaurants and other commercial applications. The Paco features a quick snap design the reduces installation time. Easy field wiring & durable construction is suitable for surface wall or ceiling installations.

■ autotest

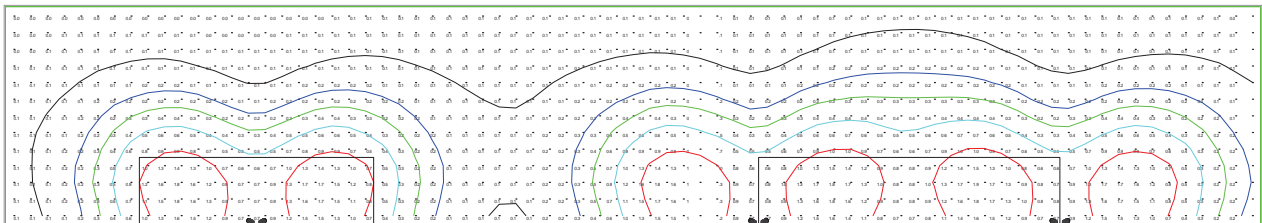
The Beghelli autotest function is factory preset without any allowable field adjustment. The automatic self-diagnostic feature serves the following tests:

- On-line real time monitoring of battery and lamps (both local and remote): identifies battery charging, disconnection and failure along with local and remote lamp failures.
- Self-testing and a 15-minute discharge once in every 30 days, after AC power has been supplied for a minimum of 24hrs.
- Self-testing and a 90-minute discharge once in every year, after AC power has been supplied for a minimum of 24hrs.

■ warranty

The PACO comes with a 3-year factory warranty. Lamps are not covered under the warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.

■ photometrics



14' x 4' Area
7.5' Mtg Height
Illuminance Values(Fc)
Average =1.19
Maximum =1.8
Minimum =0.6
Avg/Min Ratio=1.98
Max/Min Ratio=3.00

18' Center 4' Wide
Illuminance Values(Fc)
Average =1.16
Maximum =1.9
Minimum =0.6
Avg/Min Ratio=1.93
Max/Min Ratio=3.17



PACO (PCH)

INDOOR | DAMP



HOME

Job/Location: _____
 Contractor: _____ Job Type: _____
 Prepared By: _____ Date: _____

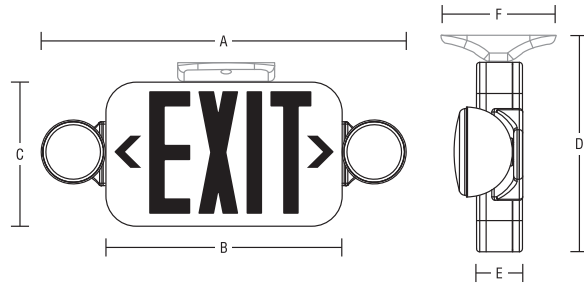


■ specifications: internal

The PACO (PCH) combination exit and emergency unit features performance and reliability in a small and attractive package. The PACO (PCH) uses a rechargeable, maintenance free nickel cadmium battery. Configured with 120/277V input. The circuit board features an onboard solid state transformer, low voltage disconnect and brownout protection. Red or green LEDs totaling less than 2W.

■ specifications: external

The PACO (PCH) is constructed from high impact, injection molded thermoplastic and comes standard in white, black is options. Each emergency head houses a single LED cluster that totals 1.5W. The PACO (PCH) features field adjustable chevrons and can be universally mounted single or double face (extra faceplate included). Integrated test switch/monitor LED gives immediate unit status. Damp location rated.



Series	A	B	C	D	E	F
PCH	17.9"	11.6"	7.2"	8.2"	1.75"	4.33"
	456mm	295mm	183mm	208mm	44mm	110mm

■ ordering logic

Series	LED Color	Options
→ PCH	R (red)	→ AT (autotest)
	→ G (green)	B (black finish)
		RC ¹ (remote capable)

NOTE 1: Max load per unit: 3.4W for 90 minutes

EXAMPLE: PCH-R-RC

DESCRIPTION: Self-powered exit emergency combo, red LED, remote capable, damp location.



Technical

■ emergency heads

Two fully adjustable lamp heads ensure emergency lighting performance, accurate positioning and reduced maintenance. Each emergency head houses a single LED cluster that totals 1.5W per head. PACO is remote capable of operating 2, single head remotes or 1 double head remote. Max load per unit: 3.4W. Remote heads are available.

■ specifications: electrical

BATTERY: The PACO (PCH) is designed with a 3.6V 900mAH maintenance free sealed nickel cadmium battery that provides minimum emergency duration of 90 minutes. The recharge time of the battery is 24 hours.

CIRCUIT: The PACO (PCH) has a 120/277V solid state transformer. Low voltage disconnect and brownout protection are standard. Red or green LEDs totaling <2W.

■ specifications: mechanical

PACO (PCH) features a modern design, a low profile, rounded corners and an overall reduced size making the PACO (PCH) one of the smaller, code compliant exit signs available. The quick connect installation system allows for effortless surface mount installation.

■ self-powered

The PACO (PCH) is designed to operate on battery power in the event of regular / mains power failure. Both the battery and charger are completely contained within the standard sign. There are no external components and no alteration made to the external dimensions of the standard sign. Status is easily determined via an LED that indicates AC-ON. A push button test switch allows maintenance personnel to quickly confirm the operational status of the exit at any time.

■ warranty

The PACO (PCH) comes with a 3-year factory warranty. Deliberate damage, misuse, improper installation effectively void the warranty. For complete warranty details see online.