

Liverpool

FULL CUT-OFF SERIES

Low Height Wall Mount;
Vandal Resistant HID, CFL, LED

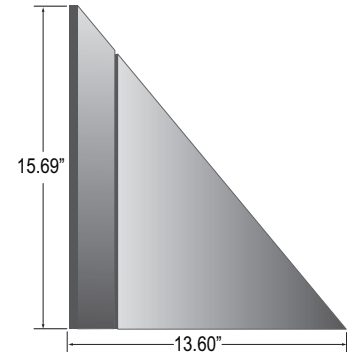
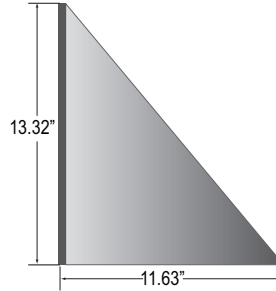
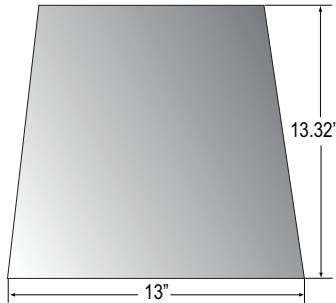
We reserve the right to revise the design or components of any product without notice.

CATALOG #		TYPE
PROJECT/LOCATION		
APPROVED BY		



SPECIFICATIONS

- BALLAST** — For Compact Fluorescent Electronic Cold Weather HPF is Standard. Operates from -30° C up to 90° C max case temperature.
- EMERGENCY** — CFL, LED — Remote or Integral.
- GASKETING** — High temperature, non-aging black EPDM or neoprene rubber around the entire lens perimeter and rear wire entrance hole to protect against dust, moisture and outside contaminants.
- HOUSING** — All aluminum construction, easy 2-piece installation, optional back box for emergency battery backup operation. Finished in Bronze oven baked Polyester Powder Coat.
- LAMPS** — Compact Fluorescent: Double Twin Tube (DTT), or Triple Twin Tube (TTT), LED.
- LENS** — Clear tempered glass (94) is Standard. Optional: Prismatic glass (93); Clear polycarbonate (92); Prismatic polycarbonate (80, 81).
- LENS FASTENERS** — Stainless steel tamperproof screws to secure lens door.
- REFLECTOR** — .020" specular aluminum (standard), painted white optional.
- UL/ULC Listed** to U.S. and Canadian safety standards. Suitable for wet locations.



Shown with Backbox²

LAMP TYPE/QTY/WATTAGE ¹		
Fixture	LIVERPOOL	
Dimensions - W x H x D	13" x 13½" x 1¼" (nominal)	
Compact Fluorescent Double Twin Tube	DTT	(1 or 2)26w
Compact Fluorescent Triple Twin Tube	TTT	(1)32/42w; (2)32/42w ²
Ceramic Metal Halide ² Philips - CosmoPolis™	CMHC	60w (277V Standard) ¹ (2800K Color Temp Only)
Light Emitting Diode	LED	20/30/40w

ORDERING GUIDE:	SERIES	STYLE	LAMP TYPE/QTY/WATT	COLOR TEMP	VOLTAGE	FINISH	OPTIONS
	LV						

NOTES:

- Consult Factory with requests regarding lamp sources, including LED, color temp., wattages or voltages not shown.
- Backbox Required: with CMHC; with Photocell (9206, 9221). Emergency Battery (EL/REL) includes Backbox
- Consult Factory for additional Emergency Battery options.
- Available with Step Dimming Option (CMHL) *Philips-Lumistep™*. Specify: "6" for 6hrs
"8" for 8hrs
"X" for 10hrs
- Visit our website for spec sheet featuring Lighting Facts Certified Model

SERIES

LV = Liverpool Series³

STYLE

- A = Direct (Downlight)
- B = Indirect (Uplight: INDOOR ONLY) CFL or LED Only

LAMP TYPE/QUANTITY/WATTAGE

Refer to Chart Above

COLOR TEMP (LED)

- 3K = ±3000K range LED
- 4K = ±4000K range LED
- 5K = ±5000K range LED
- 6K = ±6000K range LED

VOLTAGE

- 120 = 120 Volts
- 277 = 277 Volts
- 347 = 347 Volts

EBU = High Temp Universal Volt (120-277V) Electronic Ballast Programmable Start for CFL

2EB = 2 Electronic Ballast for Dual Circuit CFL(2)26w, Specify Voltage

FINISH

- BK = Black Finish
- BZ = Bronze Finish – STANDARD
- CC = Custom Color
- PNA = Painted Natural Aluminum
- WH = White Finish

OPTIONS

- 80 = .125" K12 Prismatic Polycarbonate
- 81 = .156" K12 Prismatic Polycarbonate
- 92 = .187" Clear Polycarbonate
- 93 = .156" C73 Prismatic Tempered Glass
- 9002 = Tamperproof Screwdriver
- 9206 = Photocell – 120V²
- 9221 = Photocell – 277V²
- BB = Backbox for Surface Conduit, CMHC, Req'd with 2 CFL Lamps
- CMHL = Ceramic Metal Halide *CosmoPolis™* with Step Dimming: *Lumistep™* (Philips)²
- FUS = Single Fusing

EMERGENCY OPTIONS^{2,3}

- EL2 = Integral Emergency Battery: DTT/TTT; 1-2 Lamp; 650 Lumens
- EL35 = Integral Emergency Battery Cold Weather DTT/TTT; 1-2 Lamp; 1250 Lms

REL2 = Remote Emergency Battery: see EL2

REL52 = Remote Emergency Battery Cold Weather (Bodine) DTT/TTT; 1-2 Lamp; up to 1250 Lms

LED OPTIONS³

- BL = Dual Circuit for Bi-Level light (High/Low)
- EC1 = (1) Three Watt LED for Emergency Circuit
- EC2 = (2) Three Watt LED for Emergency Circuit
- LDIM = 0-10V low-voltage dimming (100-30% Standard, Consult Factory for Other)
- MSE = Motion Sensor External for LED Specify Finish: White (WH) or Bronze (BZ)
- MSI = Motion Sensor Integral for LED
- REL61 = Remote Emergency Battery: LED 12W, approx. 720 Lumens (by Iota)
- REL63 = Remote Emergency Battery: LED 23W, approx. 1290 Lumens (Bodine)
- REL67 = Remote Emergency Battery: LED, Cold Weather, 23W, approx. 1290 Lms (Iota)
- SG = 10KA Surge Protection for LED fixtures (meets ANSI spec C62.41.2)



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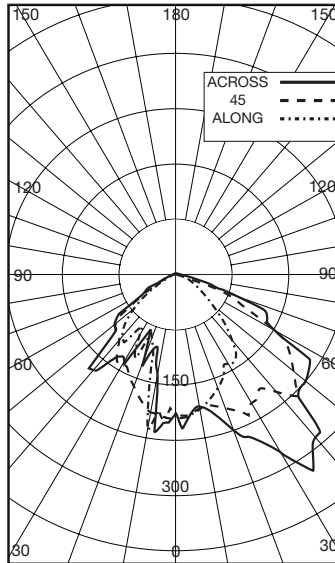
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Architectural Series pg.21-III
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PHOTOMETRIC DATA:

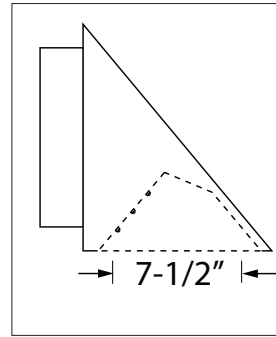
Liverpool Series Tested Using the IES LM79 Standards

ITL test # 25986 LV-LED40H-EBU-FT-BK
with specular reflector
and clear flat glass lens

Test Date: 09/01/2009



POWER FACTOR	99.1%
LUMENS (Light Output)	1624
WATTS (At Test)	36.5
EFFICACY (Lumens per Watt)	44.5
CRI (Color Rendering Index)	70.1
CCT (Correlated Color Temp.)	4759K



Zone	Lumens	% Luminaire
0-30	416	25.64
0-40	720	44.34
0-60	1371	84.44
0-90	1624	100.00
40-90	904	55.66
60-90	253	15.56
90-180	0	0.00
0-180	1624	100.00

Coefficients of Utilization

PCC>	90%			70%			50%		
	PW>	70%	50%	30%	70%	50%	30%	50%	30%
0	122	122	122	116	116	116	111	111	111
1	113	108	105	108	104	101	100	97	97
2	104	97	90	99	93	87	89	85	85
3	95	85	77	91	82	76	80	74	74
4	88	76	67	84	74	66	71	65	65
5	81	68	59	77	66	58	64	57	57
6	74	60	51	70	58	50	57	50	50
7	67	54	45	64	52	44	50	43	43
8	62	48	40	59	47	39	45	38	38
9	58	44	35	55	42	34	41	34	34
10	53	39	31	51	38	31	37	30	30

Rm. Percentage = 20%; PCC = Ceiling Reflectance;
PW = Wall Reflectance