



**Job Name:**  
SOUTH HADLEY PLAINS SCHOOL  
Architect: MARGO JONES ARCHITECTS  
(GREENFIELD)

**Catalog Number:**  
LF6LED

Notes:

**Type:**

**D-1**

V13-39631



**6" LED Downlight**

**LF6LED**

120V-277V  
0-10V Dimming

DATE: \_\_\_\_\_ TYPE: \_\_\_\_\_

FIRM NAME: \_\_\_\_\_

PROJECT: \_\_\_\_\_

**LifeFrame**



Ceiling Cutout: 6 1/4"  
Maximum Ceiling Thickness 1 1/4"  
For conversion to millimeters,  
multiply inches by 25.4  
Not to Scale



**APPLICATIONS:**

LifeFrame LF6LED is a 6" commercial grade LED downlight that utilizes remote phosphor technology to obtain color consistency, energy savings, and low maintenance costs. 50,000 hours minimum life up to 40°C (104° F) in open plenum applications.

**HOUSING:**

One-piece 22 gauge non-corrosive steel platform. Pre-wired J-box with snap-on cover for easy access. Snap-in connection from driver compartment allows easy installation of light engine/trim assembly without tools above or below the ceiling and can be upgraded to accommodate technology improvements. Approved for 8 (4 in/4 out) No. 12 AWG conductors rated for 90°C through wiring.

**REFLECTOR:**

High purity aluminum, Alzak, iridescence suppressed, semi-diffuse reflector. Self-trim standard. Painted white self-trim (WT) available as option.

**LED LIGHT ENGINE:**

The LF6LED uses the Philips Fortimo DLM LED Module with remote phosphor technology. This technology provides controlled color consistency from fixture to fixture. The system is designed for optimal life and lumen maintenance (50,000 hours at 70% lumen maintenance). Both reflector and light engine assembly are mechanically retained to housing. The light engine comes standard with 80 CRI in all Kelvin temperatures.

**LED DRIVER:**

The LF6LED utilizes the Philips Fortimo LED Driver specifically designed to optimize efficiency of the Fortimo DLM Module. Driver is designed to match the 50,000 hour minimum life expectancy of the system. Meets UL Class 2, inherent short circuit protection, self limited, overload protected. If critical temperatures are reached on driver or LED module, integrated thermal feedback loop will gradually reduce current to protect system life. Driver is universal 120V-277V.

**DIMMING:**

Comes standard with 0-10V dimming capability. Flicker-free dimming to 10%. See list of compatible dimmers on pg. 4. For sizing of the controls, the dimming circuit requires up to 1mA. Lutron dimming available.

**INSTALLATION:**

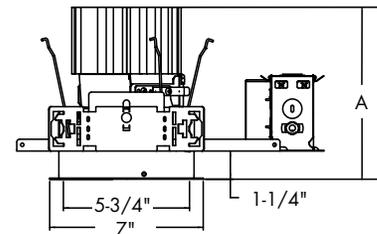
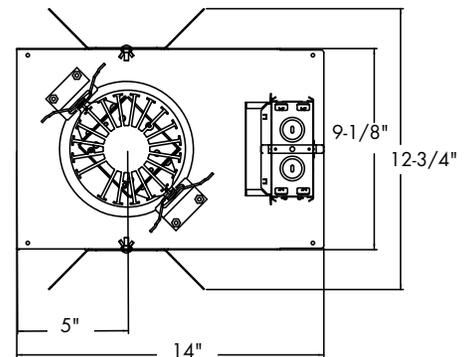
Light commercial bar hangers included. Universal adjustable mounting brackets also accept 1/2" EMT conduit or 1 1/2" or 3/4" lathing channel (by others) or Prescolite 24" bar hangers (B24 or B6). Wall wash orientation may be field adjusted in 90° increments to housing.

**CERTIFICATIONS:**

CSA certified to US and Canadian safety standards. Suitable for wet locations. EM is damp locations CSA US only. Approved for through wiring. Non-IC rated. ENERGY STAR qualified on clear Alzak reflector.

**WARRANTY:**

5 year warranty. See www.prescolite.com for details. Warranty for EM Battery handled directly through battery manufacturer.



	A
6LFLED5	6-3/4"
6LFLED7	7-3/4"

\* See page 4 for WW line art  
\* See page 5 for EM line art

Order housing, reflector, and accessories separately

CATALOG NUMBER:

EXAMPLE: LF6LED - 6LFLED5 30K

HOUSING	VOLTAGE	OPTIONS	TRIM	LED COLOR TEMP	REF. FINISH	REF. COLOR	REF. OPTIONS	ACCESSORIES
<input type="checkbox"/> <b>LF6LED</b> 6" LED Housing with 0-10V Dimming to 10% for LED5 or 7	<input type="checkbox"/> <b>Blank</b> 120V-277V <input type="checkbox"/> <b>120°</b> 120V <input type="checkbox"/> <b>277°</b> 277V	<input type="checkbox"/> <b>WW<sup>2,7</sup></b> Wall Wash <input type="checkbox"/> <b>EM<sup>3,6</sup></b> Bodine BSL17C-C2 Battery Pack with integral test switch and indicator light <input type="checkbox"/> <b>WIH</b> wiHUBB® Enabled (see page 6) <input type="checkbox"/> <b>HDM<sup>9</sup></b> Lutron series A LED driver Hi Lume 3 wire or EcoSystem dimming to 1%	<input type="checkbox"/> <b>6LFLED5<sup>4</sup></b> 6" Open Reflector/Light Engine Assembly, 1100 lumen module <input type="checkbox"/> <b>6LFLED7<sup>5</sup></b> 6" Open Reflector/Light Engine Assembly, 2000 lumen module	<input type="checkbox"/> <b>30K</b> 3000 Kelvin, 80 CRI <input type="checkbox"/> <b>35K</b> 3500 Kelvin, 80 CRI <input type="checkbox"/> <b>40K</b> 4000 Kelvin, 80 CRI	<input type="checkbox"/> <b>Blank</b> Alzak Semi-Diffuse	<input type="checkbox"/> <b>Blank</b> <input type="checkbox"/> <b>GG</b> Champagne Gold Alzak <input type="checkbox"/> <b>BL</b> Black Alzak <input type="checkbox"/> <b>WE</b> Wheat Alzak <input type="checkbox"/> <b>LW</b> Light Wheat Alzak <input type="checkbox"/> <b>PW</b> Pewter Alzak <input type="checkbox"/> <b>WH<sup>1</sup></b> White Paint	<input type="checkbox"/> <b>WT</b> White Trim <input type="checkbox"/> <b>TRG</b> Trim Ring Gasket (factory installed) <input type="checkbox"/> <b>WW<sup>7</sup></b> Wall Wash <input type="checkbox"/> <b>EM<sup>3,6</sup></b> Bodine BSL17C-C2 Battery Pack with integral test switch and indicator light	<input type="checkbox"/> <b>B24</b> Set of two(2) 24" bar hangers for T-bar ceilings <input type="checkbox"/> <b>B6</b> Set of two (2) bar hangers for ceiling joist up to 24" centers <input type="checkbox"/> <b>LFSC6<sup>3,7</sup></b> 6" reflector screw cover <input type="checkbox"/> <b>LFSC6 EM<sup>3</sup></b> 6" reflector screw cover for EM <input type="checkbox"/> <b>LG15<sup>7,8</sup></b> Dual-Lite 100VA Surface Wall Mount LiteGear Emergency Lighting Inverter <input type="checkbox"/> <b>LG1R<sup>7,8</sup></b> Dual-Lite 100VA Recessed Wall Mount LiteGear Emergency Lighting Inverter <input type="checkbox"/> <b>LG1T<sup>7,8</sup></b> Dual-Lite 100VA Recessed Ceiling T-Grid LiteGear Emergency Lighting Inverter <input type="checkbox"/> <b>LG25<sup>7,8</sup></b> Dual-Lite 250 VA Surface Wall Mount LiteGear Emergency Lighting Inverter



In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.  
Web: [www.prescolite.com](http://www.prescolite.com) • Tech Support: (888) 777-4832

**LFR-LED-001**



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(GREENFIELD)

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LF6LED

Notes:

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**D-1**

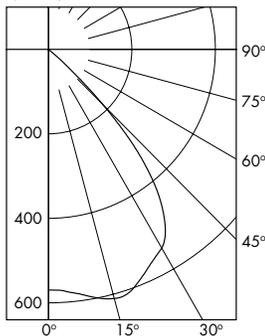
V13-39631

# PHOTOMETRIC DATA

## LifeFrame - 6" LF6LED Downlight

**LF6LED 6LFLED5 40K**

LED Light Engine: 4000K, 80 CRI  
System Wattage: 16.3W  
Fixture Delivered Lumens: 911  
Fixture Efficacy: 55  
Spacing Criteria: 1.2



**CANDELA DISTRIBUTION**

DEG	CANDELA	LUMENS
0	569	
5	580	56
15	602	169
25	560	258
35	467	288
45	178	135
55	3	4
65	1	0
75	0	0
85	0	0
90	0	0

Test No. 3333

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	%LUMINAIRE
0-30	483	53.0
0-40	771	84.6
0-60	911	99.9
0-90	911	100.0
90-180	0	0.0
0-180	911	100.0

**LUMINANCE DATA IN CANDELA/ SQ. METER**

Angle in Vertical	Average -
45°	15021
55°	312
65°	141
75°	0
85°	0

**COEFFICIENTS OF UTILIZATION** Zonal Cavity Method

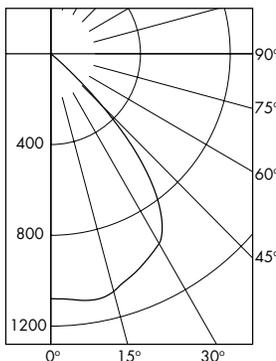
Room Cavity Ratio	% Effective Floor Cavity Reflectance																
	80%		70%		50%		30%		10%								
	20% Effective Floor Cavity Reflectance																
	% Wall Reflectance																
	70	50	30	10	70	50	30	10	50	30	10	50	30	10			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94
2	107	101	97	93	104	100	95	92	96	93	90	93	90	88	90	88	86
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72
5	89	79	73	68	87	78	72	68	77	71	67	75	70	67	73	69	66
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51
9	70	59	52	48	68	58	52	48	57	52	48	56	51	47	55	51	47
10	66	55	48	44	65	54	48	44	54	48	44	53	48	44	52	47	44

LF6LED 6LFLED5 40K

Test No. 3333

**LF6LED 6LFLED7 35K**

LED Light Engine: 3500K, 80 CRI  
System Wattage: 32.4W  
Fixture Delivered Lumens: 1656  
Fixture Efficacy: 50  
Spacing Criteria: 1.2



**CANDELA DISTRIBUTION**

DEG	CANDELA	LUMENS
0	1079	
5	1087	104
15	1084	305
25	1006	465
35	855	526
45	322	246
55	6	8
65	2	1
75	0	1
85	0	0
90	0	0

Test No. 3678

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	%LUMINAIRE
0-30	874	52.8
0-40	1401	84.6
0-60	1654	99.9
0-90	1656	100.0
90-180	0	0.0
0-180	1656	100.0

**LUMINANCE DATA IN CANDELA/ SQ. METER**

Angle in Vertical	Average - 0°
45°	24955
55°	573
65°	259
75°	0
85°	0

**COEFFICIENTS OF UTILIZATION** Zonal Cavity Method

Room Cavity Ratio	% Effective Floor Cavity Reflectance																
	80%		70%		50%		30%		10%								
	20% Effective Floor Cavity Reflectance																
	% Wall Reflectance																
	70	50	30	10	70	50	30	10	50	30	10	50	30	10			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79
4	94	86	80	75	93	85	79	75	83	78	74	80	76	73	79	75	72
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55
8	74	63	57	52	73	63	56	52	61	56	51	60	55	51	59	55	51
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47
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LF6LED 6LFLED7 35K

Test No. 3678

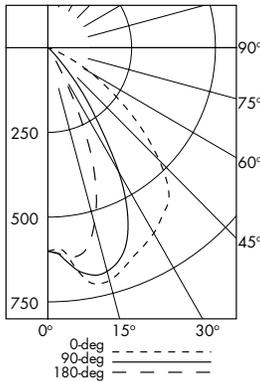




# PHOTOMETRIC DATA

## LiteFrame - 6" LF6LED Wall Wash Downlight

**LF6LEDWW 6LFLED5 35K WW**  
LED Light Engine: 3500K, 80 CRI  
System Wattage: 18.5W  
Fixture Delivered Lumens: 830  
Fixture Efficacy: 46



**CANDELA DISTRIBUTION**

DEG	0.0	90.0	180.0
0	600	600	600
5	608	632	619
15	711	683	537
25	656	566	235
35	599	243	19
45	470	35	4
55	243	4	1
65	65	1	0
75	1	1	0
85	0	0	0
90	0	0	0

**LUMINANCE DATA IN CANDELA/SQ. METER**

Angle in Vertical	0 DEG	90 DEG	180 DEG
45°	34598	675	338
55°	19974	104	0
65°	3530	0	0
75°	0	0	0
85°	0	0	0

				MULTIPLE UNITS	
1'	2'	3'	4'	UNITS ON 3' CENTER	UNITS ON 4' CENTER

**3' DISTANCE FIXTURE MOUNTED OUT FROM WALLS  
FOOTCANDELA DISTRIBUTION ON WALL SURFACE**

DISTANCE FROM CEILING IN FEET	1'	2'	3'	4'	1'	2'	3'	4'	1'	2'	3'	4'
1	1	0	0	0	1	0	1	1	0	0	0	0
2	14	10	2	0	14	11	14	14	4	4	14	14
3	19	15	8	2	20	23	20	19	15	19	15	19
4	14	13	9	4	18	22	18	15	17	15	17	15
5	10	9	7	5	14	17	14	12	15	12	15	12
6	6	6	6	4	11	12	11	9	11	9	11	9
7	5	4	4	3	8	9	8	7	8	7	8	7
8	3	3	3	2	6	6	6	5	6	5	6	5
9	2	2	2	2	5	5	5	4	5	4	5	4

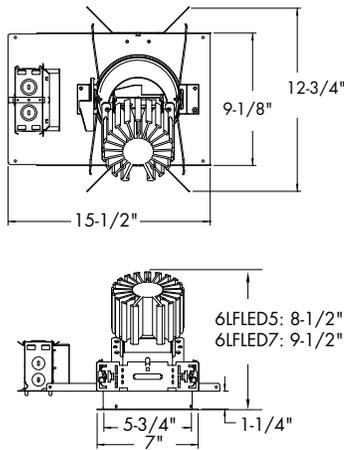
**LF6LED WW**

Test No. 3483

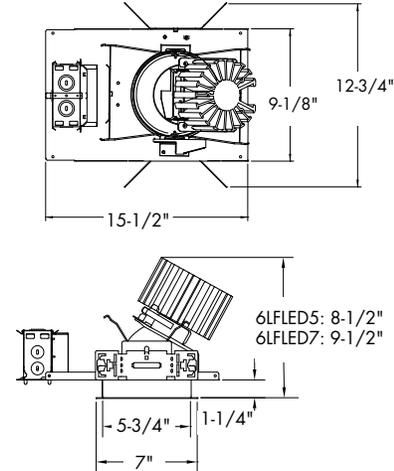
Test No. 3483

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

### STANDARD WALL WASH ORIENTATION



### FIELD CONFIGURABLE WALL WASH ORIENTATION



### DIMMING COMPATIBILITY TABLE

Control Manufacturer	Wallbox Dimmer	Power Booster Available
Douglas Lighting Controls	WPC 5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V) Tap Glide Heatsink TGH1500fam120 (120V) Oasis DA2000FAMU (120/277V)	
Honeywell, Inc.	EL731A1019 and EL7315A1009	EL7305A1010
HUNT Dimming	Preset Slide: PS-010-IV-120V and PS-010-WH-120V Preset Slide: PS-010-3W-IV-120V and PS-010-3W-WH-120V Preset Slide: PS-010-IV-277V and PS-010-WH-277V Preset Slide: PS-010-3W-IV-277V and PS-010-3W-WH-277V Preset Slide, controls FD-010; PS-1FC-010-IV- and PS-1FC-010-32-WH-120/277V Preset Slide, controls FD-010; PS-1FC-010-32-IV- and PS-1FC-010-3W-WH-120/277V Remoted mounted unit: FD-010120V and FD-010-277V	
Lehigh Electric Products Co.	Solitaire	PBX
Leviton Lighting Controls Div.	Leviton Centura Fluorescent Control System IllumaTech™ IP7 Series	CN100 PE300
Lutron Electronics Co., Inc.	Visit <a href="http://www.lutron.com/advance">www.lutron.com/advance</a> for the latest control information and selection	
PDM Electrical products	WPC-5721	
Starfield Controls	TR61 with DALI Interface port	RT03 DALInet Router
The Watt Stopper, Inc.	LS-4 used with LCD-101 and LCD-103	



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(GREENFIELD)**Catalog Number:**

LF6LED

**Notes:****Type:**

D-1

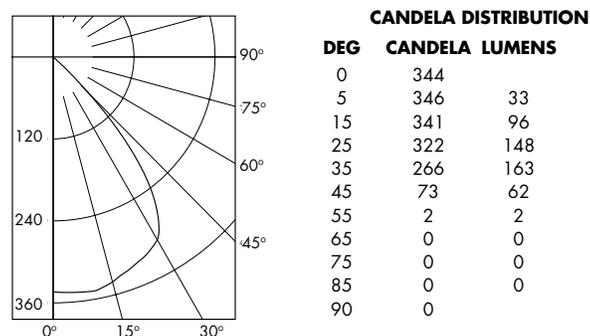
V13-39631

# PHOTOMETRIC DATA

## LiteFrame - 6" LF6LED Downlight Integral EM & Central Inverters

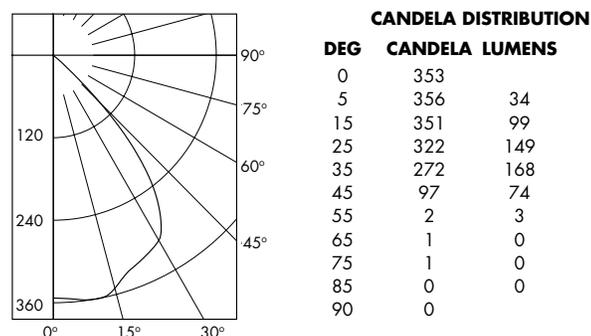
**Integral EM**

Prescolite provides photometric performance of the LiteFrame LED when operating on integral EM back up power as a tool to approximate light levels in back-up battery operation. This should not be deemed a guarantee of performance. The LiteFrame LED is CSA listed as an emergency fixture for applications not to exceed 16ft.

**LF6LEDEM 6LFLED5 35K EM**LED Light Engine: 3500K, 80 CRI  
Fixture Delivered Lumens: 505

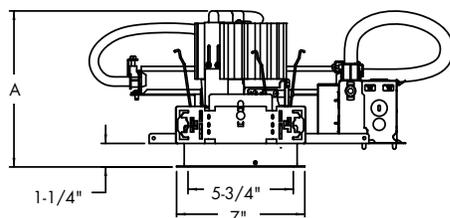
Test No. 3912

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

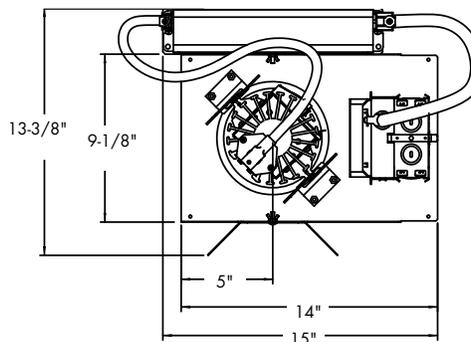
**LF6LEDEM 6LFLED7 35K EM**LED Light Engine: 3500K, 80 CRI  
Fixture Delivered Lumens: 527

Test No. 3913

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

**EM DIMENSIONS**

LIGHT ENGINE	A
6LFLED5EM	7-1/2"
6LFLED7EM	8-1/2"

**Central Inverters**

For fixture full light output in back-up mode, Prescolite and Dual-lite have jointly tested the LiteFrame LED with the 100 (LG1) and 250 (LG2) VA LiteGear inverters. (Note: Not for use with integral EM option). For more information on LiteGear go to [www.dual-lite.com/resources/litegear\\_luminaire\\_loading\\_chart/](http://www.dual-lite.com/resources/litegear_luminaire_loading_chart/)





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Architect: MARGO JONES ARCHITECTS  
(GREENFIELD)

**Catalog Number:**  
LV-A-LED40-4K-EBU-BK

**Type:**  
**DL-L**

Notes:

V13-39631

# Liverpool

## FULL CUT-OFF SERIES

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

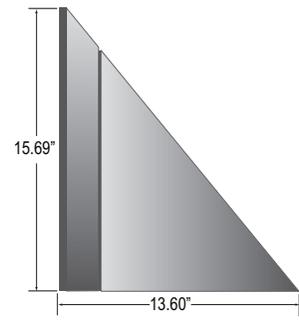
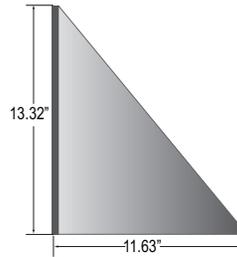
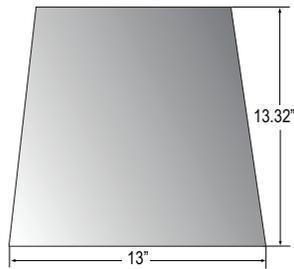


We reserve the right to revise the design or components of any product without notice.

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 Backbox<sup>2</sup>

LAMP TYPE/QTY/WATTAGE <sup>1</sup>	
Fixture	LIVERPOOL
Dimensions - W x H x D	13" x 13 1/2" x 11 1/4" (nominal)
Compact Fluorescent Double Twin Tube	DTT (1 or 2)26w
Compact Fluorescent Triple Twin Tube	TTT (1)32/42w; (2)32/42w <sup>2</sup>
Ceramic Metal Halide <sup>2</sup> Philips - CosmoPolis™	CMHC 60w (277V Standard) <sup>1</sup> (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 Series<sup>2</sup>

**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 - 120V<sup>2</sup>  
9221 = Photocell - 277V<sup>2</sup>

**BB** = Backbox for Surface Conduit, CMHC, Req'd with 2 CFL Lamps

**CMHL** = Ceramic Metal Halide CosmoPolis™ with Step Dimming: Lumistep™ (Philips)<sup>2</sup> Single Fusing

**FUS** = Single Fusing

**EMERGENCY OPTIONS<sup>2,3</sup>**  
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 OPTIONS<sup>3</sup>**  
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  
REL1 = Remote Emergency Battery: LED 12W, approx. 720 Lumens (by Iota)  
REL163 = 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)



**ECLIPSE™**  
LIGHTING



**Job Name:**  
SOUTH HADLEY PLAINS SCHOOL  
Architect: MARGO JONES ARCHITECTS  
(GREENFIELD)

**Catalog Number:**  
LV-A-LED40-4K-EBU-BK

Notes:

Type:

**DL-L**

V13-39631

**PHOTOMETRIC DATA:**

## Liverpool Series

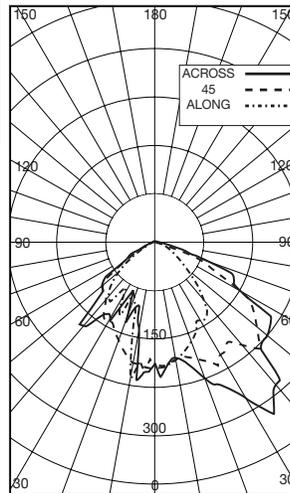
Tested Using the IES LM79 Standards

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

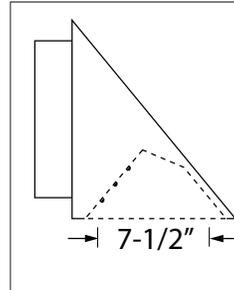
Test Date: 09/01/2009

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

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



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



Zonal Lumen Summary		
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

**Job Name:**SOUTH HADLEY PLAINS SCHOOL  
Architect: MARGO JONES ARCHITECTS  
(GREENFIELD)**Catalog Number:**  
VRB3/20L3KUV/DB

Notes:

**Type:****LB-L**

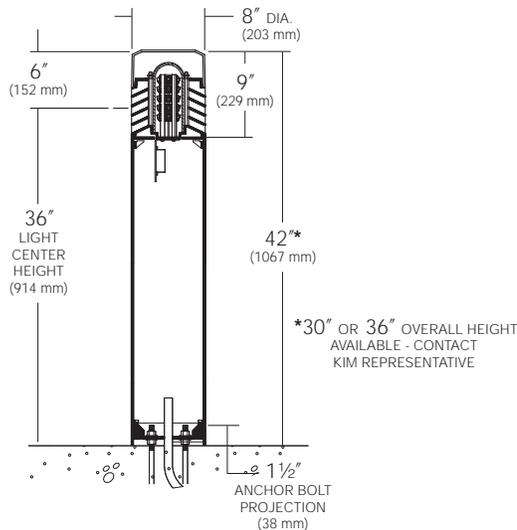
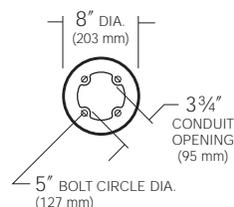
V13-39631

**KIM LIGHTING****VRB3 LED Round Bollard**  
Single Function, Vandal-Resistant, Aluminum Shaft

revision 6/29/11 • kl\_vrb3led\_spec.pdf

**Type:****Job:****Catalog number:****Approvals:**

<b>VRB3</b>	/	/	/
Fixture	Electrical Module	Luminaire Finish (includes top cap and shaft)	Options
See page 2			

**Date:****Page: 1 of 2****Specifications****VRB-LED Models**  
10 - 20 Diodes**VRB3 - Single Function Luminaire (Aluminum Shaft)**  
Maximum weight: 30 lb**BASE PLAN  
VRB  
ALUMINUM SHAFT**

HUBBELL LIGHTING, INC.

**Flat Top Cap:** One-piece sand-cast  $\frac{3}{16}$ " minimum thickness, secured to louvers by concealed allen screws in keyhole slots. For relamping access, allen screws shall not require complete removal.

**Louvers:** Aluminum die-cast with vertical support ribs at 90° intervals. Horizontal louver blades shall have a 1L" depth, a 65° upward pitch and provide light source cutoff above horizontal. Louver assembly shall be secured to shaft by four internal stainless steel tie rods.

**Lamp Enclosure:** One-piece tempered molded glass with internal flutes and full gasketing at bottom edge.

**Fixture Head:** Allows flow-through ventilation around and above the lamp enclosure.

**Shaft:** One-piece extruded aluminum, .125" wall thickness with a heavy cast aluminum twist-lock anchor base concealed within the shaft. Concealed set screws shall lock shaft onto the cast anchor base.

**Electronic Module:** All electrical components are either UL or ETL recognized, mounted on a single plate and factory prewired with quick disconnect plugs. Driver is rated for -40°F starting and has a 0-10V dimming interface for multi-level illumination options.

**Optical Module:** Each LED equipped with a directional optic for maximum beam angle projecting through louver stack spacings. LED boards to be mounted to an anodized inter-locking heat sink extrusion. (Type I) two 5-LED boards for a total of 10-LED. (Type III) three 5-LED boards for a total of 15-LED. (Type V) four 5-LED boards for a total of 20-LED. Available in 3500K and 5100K color temperatures.

**Anchor Bolts:** Four  $\frac{3}{8}$ " x 10" + 2" zinc plated L-hooks, each with two nuts, washers and a rigid pressed board template.

**Finish:** TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, or White. Custom colors are available.

**CAUTION:** Fixtures must be grounded in accordance with national, state and/or local codes. Failure to do so may result in serious personal injury.

Listings and Ratings		
UL, or ETL to UL Standards 1598 & 8750 <sup>1</sup>	25C Ambient	
IP46 Rated	FS = Fully Shielded <sup>2</sup>	-

<sup>1</sup> Suitable for wet locations<sup>2</sup> Dark Sky Legislation Compliant

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



**Job Name:**  
SOUTH HADLEY PLAINS SCHOOL  
Architect: MARGO JONES ARCHITECTS  
(GREENFIELD)

**Catalog Number:**  
VRB3/20L3KUV/DB

Notes:

Type:

**LB-L**

V13-39631

**VRB3 LED Round Bollard**

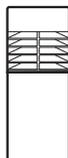
Single Function, Vandal-Resistant, Aluminum Shaft

revision 6/29/11 • kl\_vrb3led\_spec.pdf

Type:

Job:

Page: 2 of 2

**Standard and Optional Features****Fixture**Cat. No. **VRB3** Single Function, Aluminum Shaft, Flat Top**Electrical Module**

LED = Light Emitting Diode

Cat. Nos. for LED Electrical Modules available:

- |   |  |  |
|---|--|--|
| xL  | xK   | x  |
| <b>Source:</b>  | <b>Color Temperature:</b>  | <b>Voltage:</b>  |
| <input type="checkbox"/> 10L = 10 LED<br>(IES Type I)<br><input type="checkbox"/> 15L = 15 LED<br>(IES Type III)<br><input type="checkbox"/> 20L = 20 LED<br>(IES Type V) | <input type="checkbox"/> 3K = 3500K<br><input type="checkbox"/> 5K = 5100K | <input type="checkbox"/> UV<br><br>Universal<br>Voltage shall<br>range from<br>120V-277V |

FIXTURE	TOTAL SYSTEM WATTS	VOLT	OPERATING AMPS
VRB3 - 10 LED	12	120 / 208 / 240 / 277	.10 / .05 / .05 / .04
VRB3 - 15 LED	18	120 / 208 / 240 / 277	.15 / .09 / .08 / .07
VRB3 - 20 LED	24	120 / 208 / 240 / 277	.20 / .12 / .10 / .09

**Finish**

TGIC thermoset polyester powder coat paint applied over a titanated zirconium conversion coating on fixture and shaft.

Color: Black  **Dark Bronze** Light Gray Stealth Gray™ Platinum Silver White Custom Color<sup>1</sup>  
 Cat. No.:  **BL**  **DB**  **LG**  **SG**  **PS**  **WH**  **CC**

**NOTE:** Black and Dark Bronze colors will produce slightly less louver brightness than Light Gray or White.

<sup>1</sup> Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: \_\_\_\_\_

**Job Name:**

SOUTH HADLEY PLAINS SCHOOL  
 Architect: MARGO JONES ARCHITECTS  
 (GREENFIELD)

**Catalog Number:**

FH-T3-99LED-BW-MAL-LS5XP-  
 WIRED120-277V

Notes:

**Type:****LL-3**

V13-39631

## Flex™ LED

page 1 of 10

DATE

TYPE

**DESIGNER**  
**SSL** SERIES

FEATURING

**MICROEMITTER™**  
**TECHNOLOGY**



**LifeShield™**  
 Protection System

- Part of AAL's Designer SSL Series
- Featuring highly efficient, exclusive MicroEmitter™ reflector technology
  - 99 LED array (112 average total input watts)
  - Two standard color temperatures: 3500K or 5100K
  - IES Type 2, 3, 4 or 5 distribution patterns
- Field replaceable LED EmitterDeck™ upgrade kits for existing Flex HID or CFL models available
- Features exclusive LifeShield™ Protection System for extreme weather conditions (-30°C to 60°C)
- 0 - 10v dimming capabilities
- Surge protection included
- Wide variety of arm configurations including single, double, triple and quad
- IP65 rated
- Powder coat finish in 13 standard colors with a polymer primer sealer

**Architectural Area Lighting**

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 P 626.968.5666 | F 626.369.2695 | www.aal.net  
 Design patents, Copyright © 2010 11/2010

PATENTS PENDING





**Job Name:**  
SOUTH HADLEY PLAINS SCHOOL  
Architect: MARGO JONES ARCHITECTS  
(GREENFIELD)

**Catalog Number:**  
FH-T3-99LED-BW-MAL-LS5XP-  
WIRED120-277V

Notes:

**Type:**  
**LL-3**

V13-39631

# FH (LED) – Flex™

TYPE

- MicroCore® & MicroEmitter technologies
- DLC pending
- IP65 construction
- Canted design provides even illumination with less glare
- Surge protection included
- Powder coat finish in 13 standard colors with a polymer primer sealer
- 0-10v dimming ready
- Type 2, 3, 4, 5, Custom, Left & Right distributions



FH (MicroCore)

1. LUMINAIRE	2. OPTICS	3. COLOR	4. OPTIONS	5. MOUNTING
FH				

## 1. LUMINAIRE

- FH – Flex

## 2. OPTICS

**MICROCORE** (56 light emitting diode array, 132 watts. Class 2, 120 thru 277 volt. 3000K Warm White (3K), 4000K Neutral White (4K), 5000K Bright White (5K))

- T2-56LED-3K-700 (Type 2)
- T2-56LED-4K-700 (Type 2)
- T2-56LED-5K-700 (Type 2)
- T3-56LED-3K-700 (Type 3)
- T3-56LED-4K-700 (Type 3)
- T3-56LED-5K-700 (Type 3)
- T4-56LED-3K-700 (Type 4)
- T4-56LED-4K-700 (Type 4)
- T4-56LED-5K-700 (Type 4)
- T5-56LED-3K-700 (Type 5)
- T5-56LED-4K-700 (Type 5)
- T5-56LED-5K-700 (Type 5)
- TL-56LED-3K-700 (45° left)
- TL-56LED-4K-700 (45° left)
- TL-56LED-5K-700 (45° left)
- TR-56LED-3K-700 (45° right)
- TR-56LED-4K-700 (45° right)
- TR-56LED-5K-700 (45° right)

**MICROEMITTER** (99 light emitting diode array, 112 watts. Class 1, 230 thru 277 volt. 3000K Warm White (WW), 4000K Neutral White (NW), 5000K Bright White (BW). 350mA drive current.

- T2-99LED-WW (Type 2)
- T2-99LED-NW (Type 2)
- T2-99LED-BW (Type 2)
- T3-99LED-WW (Type 3)
- T3-99LED-NW (Type 3)
- T3-99LED-BW (Type 3)\*
- T4-99LED-WW (Type 4)
- T4-99LED-NW (Type 4)
- T4-99LED-BW (Type 4)
- T5-99LED-WW (Type 5)
- T5-99LED-NW (Type 5)
- T5-99LED-BW (Type 5)\*

**\*DLC Listed**

## 3. COLOR

- AWT (Arctic White)
- BLK (Black)
- MTB (Matte Black)
- DGN (Dark Green)
- DBZ (Dark Bronze)
- WRZ (Weathered Bronze)
- BRM (Metallic Bronze)
- VBL (Verde Blue)
- CRT (Corten)
- MAL (Matte Aluminum)
- MDG (Medium Grey)
- ATG (Antique Green)
- LGY (Light Grey)
- RAL/PREMIUM COLOR (Provide RAL)
- CUSTOM COLOR (Provide color chip for matching)

## 4. OPTIONS

- LDL (Lightly diffused lens)
- CLR (Clear flat lens)
- LPC12 (Photocell with adjustable swivel for aiming. 120 volt.)
- LPC27 (Photocell with adjustable swivel for aiming. 208/240/277 volt.)
- WIH (Integral HBA wiHUBB IFM transceiver and antenna. MicroCore only)

## 5. MOUNTING – Must choose one

### WALL MOUNT

- WVSS (Very short)  WSS (Short)  WLS (Long)

### Curved Arms

- WSC (Short)  WLC (Long)

### WALL MOUNT ARM WITH EXTENSION (Rods and wall plate)

- WSSER (Short)  WLSER (Long)

### Curved Arms

- WSCER (Short)  WLCER (Long)

Arm and wall plate mounting hardware provided by others.

### POST MOUNT

#### Fixed Arms

- FA4 (Attaches to the side of a 4"/100mm pole)
- FA5 (Attaches to the side of a 5"/127mm pole)

Two individual arms can be mounted to a pole at a 180° orientation.

#### Short Straight Arms - Slips over a 4"/100mm pole

- SS4  TSS4 (Twin)
- PSS4 (3-way-T)  QSS4 (4-way, horizontal position only)

#### Short Straight Arms - Slips over a 5"/127mm pole

- SS5  TSS5 (Twin)
- PSS5 (3-way-T)  QSS5 (4-way, horizontal position only)

#### Short Straight Arms with Extension - Slips over a 4"/100mm pole

- SS4XP  TSS4XP (Twin)
- PSS4XP (3-way-T)  QSS4XP (4-way, horizontal position only)

#### Short Straight Arms with Extension - Slips over a 5"/127mm pole

- SS5XP  TSS5XP (Twin)
- PSS5XP (3-way-T)  QSS5XP (4-way, horizontal position only)

#### Long Straight Arms - Slips over a 4"/100mm pole

- LS4  TLS4 (Twin)
- PLS4 (3-way-T)  QLS4 (4-way, horizontal position only)

#### Long Straight Arms - Slips over a 5"/127mm pole

- LS5  TLS5 (Twin)
- PLS5 (3-way-T)  QLS5 (4-way, horizontal position only)

#### Long Straight Arms with Extension - Slips over a 4"/100mm pole

- LS4XP  TLS4XP (Twin)
- PLS4XP (3-way-T)  QLS4XP (4-way, horizontal position only)

#### Long Straight Arms with Extension - Slips over a 5"/127mm pole

- LS5XP  TLS5XP (Twin)
- PLS5XP (3-way-T)  QLS5XP (4-way, horizontal position only)

#### Short Curved Arms - Slips over a 4"/100mm pole

- SC4  TSC4 (Twin)
- PSC4 (3-way-T)  QSC4 (4-way)

#### Short Curved Arms - Slips over a 5"/127mm pole

- SC5  TSC5 (Twin)
- PSC5 (3-way-T)  QSC5 (4-way)

#### Short Curved Arms with Extension - Slips over a 4"/100mm pole

- SC4XP  TSC4XP (Twin)
- PSC4XP (3-way-T)  QSC4XP (4-way)

#### Short Curved Arms with Extension - Slips over a 5"/127mm pole

- SC5XP  TSC5XP (Twin)
- PSC5XP (3-way-T)  QSC5XP (4-way)

#### Long Curved Arms - Slips over a 4"/100mm pole

- LC4  TLC4 (Twin)
- PLC4 (3-way-T)  QLC4 (4-way)

#### Long Curved Arms - Slips over a 5"/127mm pole

- LC5  TLC5 (Twin)
- PLC5 (3-way-T)  QLC5 (4-way)

#### Long Curved Arms with Extension - Slips over a 4"/100mm pole

- LC4XP  TLC4XP (Twin)
- PLC4XP (3-way-T)  QLC4XP (4-way)

#### Long Curved Arms with Extension - Slips over a 5"/127mm pole

- LC5XP  TLC5XP (Twin)
- PLC5XP (3-way-T)  QLC5XP (4-way)

## SPECIFICATIONS

### HOUSING

The FLEX luminaire shall consist of modular optical and driver compartments integrated into configurable mounting brackets that feature the natural finish of stainless steel. The housing components shall be die-cast aluminum and all fasteners shall be stainless steel. The optical compartment shall be sealed with one-piece, memory retentive, molded silicone gaskets with stainless steel latches to allow tool-less service access to the light engine. The driver door shall swing down for service access by loosening two captive bolts. A stainless steel braided power cable shall deliver power to the optical chamber from the gear compartment and be sealed with nickel plated brass cord seals.

### OPTICAL

All optical systems shall provide IES Types II, III, IV, V, Custom, 45° Left & 45° Right distributions... Standard color temperatures shall be 3000K, 4000K and 5000K. See <http://www.aal.net> for comprehensive photometric data.

Luminaires featuring MicroCore light engines shall be composed of a distributed optical array of modules. Each module shall position the LEDs in a canted orientation allowing the diode's natural maximum output to begin at a high peak angle. An optically clear injection molded lens shall be coupled to every diode and LEDs shall be mounted to an anodized aluminum die-cast heat sink. A one piece injection molded silicone gasket shall seal each module for protection from the environment. An optional house side shield shall be integral to each module. Luminaires featuring MicroCore light engines are provided standard without a glass lens.

Luminaires configured with MicroEmitter shall feature precision injection molded, high specular reflectors positioned to achieve directional control towards the task. Secondary reflectors with a specular finish are used to redirect light downward. No fasteners are placed on the reflective surface. The entire assembly fastens to the housing as a one-piece module and features wiring quick-connects for easy installation. MicroEmitters shall be field replaceable. Luminaires configured with MicroEmitter shall be provided with a clear tempered glass lens sealed with an extruded silicone gasket held by stainless steel fasteners.

### ELECTRICAL

All Luminaires shall accept 120 thru 277 volt input with integral surge protection. Driver has a 0-10v dimming interface with a dimming range of 10-100%. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. (Note: not compatible with current sourcing dimmers). Consult factory for current list of known compatible dimming

See next page

TYPE \_\_\_\_\_

JOB \_\_\_\_\_

NOTES \_\_\_\_\_



ARCHITECTURAL AREA LIGHTING  
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**Job Name:**  
SOUTH HADLEY PLAINS SCHOOL  
Architect: MARGO JONES ARCHITECTS  
(GREENFIELD)

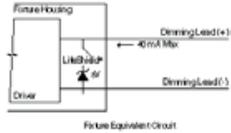
**Catalog Number:**  
FH-T3-99LED-BW-MAL-LS5XP-  
WIRED120-277V  
Notes:

**Type:**  
**LL-3**  
V13-39631

## FH (LED) – Flex™

### TYPE

systems. LifeShield™ shall be provided with all configurations for added protection in extreme temperature environments (-30°C to 60°C). The electrical assembly shall be mounted to a serviceable tray. The surge protector shall be U.L. recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave with a clamping voltage of 320V and surge rating of 372J. The surge protector case shall be a high-temperature, flame resistant plastic enclosure.



#### ARM MODULE

The arm module shall consist of two stainless steel rails that attach to the fixture housing and post top (or wall mount) module. The cables between braid modules shall be sheathed in a flexible stainless steel with nickel plated brass fittings. The extended post arms shall have a cast post extension and top cap with two stainless steel tubes. The tubes shall be field trimmed to fit straight arms that are pivoted up 30°.

#### INSTALLATION AND MOUNTING

The Flex LED shall be factory supplied as a complete, prewired assembly including, LED array, driver, arm and post top (or wall mount). The post top shall slip over a 4"/100mm or 5"/127mm open top pole and be secured with six stainless steel set screws.

#### FINISH

Fixture finish consists of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

#### CERTIFICATION

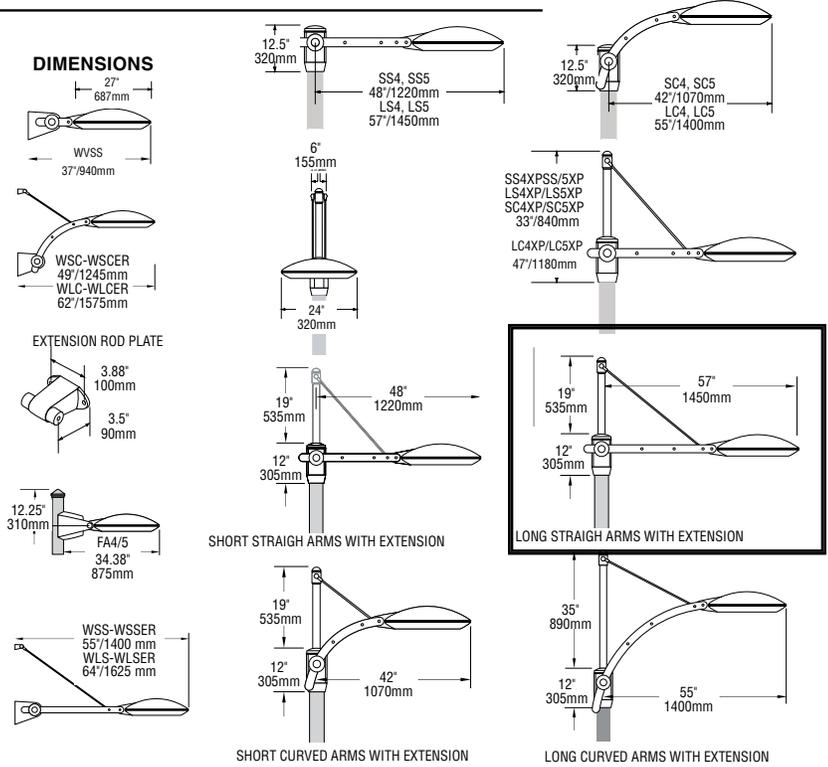
The fixture shall be listed with ETL for outdoor, wet location use. Conforms to the UL1598 and Canadian CSA Std. C22.2 no.250 standard. FLEX Luminaire housings shall be constructed to IP65 standards. MicroCore Optical arrays shall be constructed to IP66 standards.

#### WARRANTY

Housing, LEDs driver and LifeShield™ shall be warranted for five years. Any unauthorized return, repair, replacement or modification of the product(s) shall void this warranty. This warranty applies only to the use of the Product(s) as intended by AAL and does not cover poles, arms, mounting, or any misapplication or misuse of said Product(s), or installation in hazardous or corrosive environments. \*Contact AAL for complete warranty language, exceptions, and limitations. *AAL reserves the right to change product specifications without notice.*

#### WEIGHT & EPA

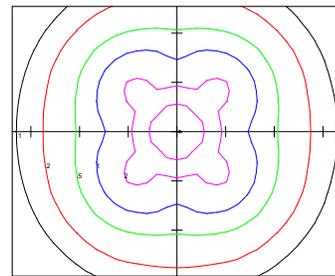
WALL MOUNT			ARM MOUNT					
ARMS	WT	EPA	ARMS	WT	EPA	ARMS	WT	EPA
WVSS	48	.93	SS4/SS5	52	1.37	SC4/SC5	52	1.38
WSS	53	1.47	TSS4/TSS4	98	2.52	TSC4/TSC5	98	2.54
WLS	55	1.63	PSS4/PSS5	144	3.13	PSC4/PSC5	147	3.15
WSC	53	1.67	QSS4/QSS5	144	3.90	QSC4/QSC5	193	3.97
WLC	56	1.85	SS4XP/SS5XP	56	1.55	SC4XP/SC5XP	56	1.54
			TSS4XP/TSS5XP	106	2.45	TSC4XP/TSC5XP	106	2.72
WSSER	50	1.53	PSS4XP/PSS5XP	156	3.06	PSC4XP/PSC5XP	156	3.33
WLSER	57	1.69	QSS4XP/QSS5XP	206	4.08	QSC4XP/QSC5XP	196	4.14
WSCER	55	1.54	LS4/LS5	52	1.53	LC4/LC5	52	1.75
WLCER	58	1.91	TLA4/TLA5	98	2.84	TLC4/TLC5	98	3.28
POST MOUNT			PLS4/PLS5	144	3.45	PLC4/PLC5	144	3.98
ARMS	WT	EPA	QLS4/QLS5	144	3.93	QLC4/QLC5	197	5.16
FA4	55	1.12	LS4XP/LSSXP	56	1.71	LC4XP/LC5XP	56	2.04
FA5	55	1.12						



**FH-T5-56LED-5K-700** WATTAGE: 132.16 LUMEN OUTPUT: 11,059.4 EFFICACY: 84 Lm/W

#### B3 U0 G2

FORWARD LIGHT		LUMEN	
FL	30°	3.2%	358.6
FM	60°	25.5%	2,817.3
FH	80°	20.3%	2,246.7
FVH	90°	1.0%	107.1
BACK LIGHT		LUMEN	
BL	30°	3.2%	358.6
BM	60°	25.5%	2,817.3
BH	80°	20.3%	2,246.7
BVH	90°	1.0%	107.1
UPLIGHT		LUMEN	
UL	100°	0%	-
UH	180°	0%	-



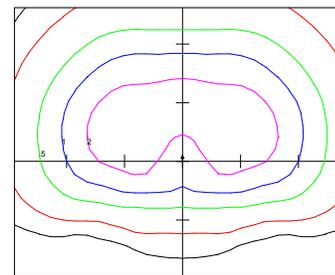
UPLIGHT 0%  
DOWNLIGHT 100%

20' MOUNTING HEIGHT

**FH-T5-56LED-5K-700** WATTAGE: 131.7 LUMEN OUTPUT: 10677 EFFICACY: 81.0 Lm/W

#### B2 U0 G2

FORWARD LIGHT		LUMEN	
FL	30°	3.9%	418
FM	60°	40.5%	4330
FH	80°	32.0%	3424
FVH	90°	1.2%	131.4
BACK LIGHT		LUMEN	
BL	30°	2.7%	248.2
BM	60°	11.3%	1210.4
BH	80°	0.5%	829.0
BVH	90°	N/A%	57.7
UPLIGHT		LUMEN	
UL	100°	N/A%	0
UH	180°	N/A%	0



UPLIGHT 0%  
DOWNLIGHT 100%

20' MOUNTING HEIGHT



ARCHITECTURAL AREA LIGHTING  
16555 East Gale Ave. | City of Industry | CA 91745  
P 626.968.5666 | F 626.369.2695 | www.aal.net  
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Submitted by Vanguard Lighting



**Job Name:**

SOUTH HADLEY PLAINS SCHOOL  
Architect: MARGO JONES ARCHITECTS  
(GREENFIELD)

**Catalog Number:**

FH-T3-99LED-BW-MAL-LS5XP-  
WIRED120-277V

Notes:

**Type:**

**LL-3**

V13-39631



**Job Name:**  
SOUTH HADLEY PLAINS SCHOOL  
Architect: MARGO JONES ARCHITECTS  
(GREENFIELD)

**Catalog Number:**  
PR44R15'-226-PTA-SBC-AWT-ABT

**Type:**  
**LL-3 POLE**

Notes:

V13-39631

FACTORY CUT TO 15'-0"

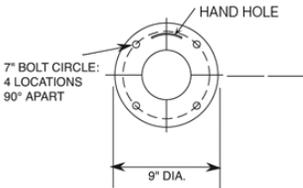
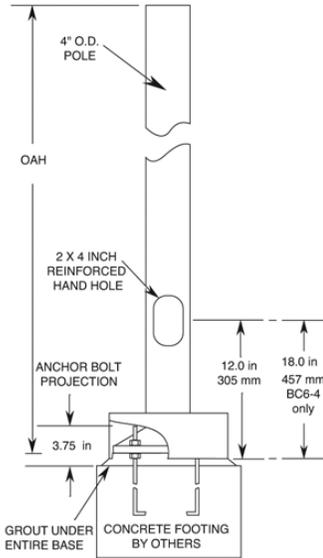
# Poles - PR4

4" ROUND (RD) POLE

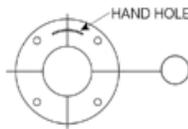
DATE

TYPE

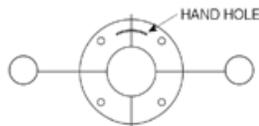
PR4  
BASE / POLE/WALL / OPTIONS



BOTTOM VIEW  
(INDICATES POLE IS LAYING DOWN WITH HAND HOLE FACING UP)



SINGLE FIXTURE MOUNTING ORIENTATION  
BOTTOM VIEW  
(INDICATES POLE IS LAYING DOWN WITH HAND HOLE FACING UP)



DOUBLE FIXTURE MOUNTING ORIENTATION  
BOTTOM VIEW  
(INDICATES POLE IS LAYING DOWN WITH HAND HOLE FACING UP)

CATALOG NO.	BASE POLE	OAH	SHAFT	WT	MAXIMUM ALLOWABLE EPA (MPH)												
					85	90	100	110	120	130	140	150					
<input type="checkbox"/> PR4 4R10-125	10' (3.1m)	4" RD x .125"	25	19.4	17.1	13.5	10.8	8.9	7.4	6.3	5.5						
<input type="checkbox"/> PR4 4R12-125	12' (3.7m)	4" RD x .125"	28	15.3	13.4	10.5	8.3	6.7	5.6	4.7	4.0						
<input type="checkbox"/> PR4 4R14-125	14' (4.3m)	4" RD x .125"	32	12.3	10.7	8.2	6.3	5.0	4.1	3.4	2.9						
<input type="checkbox"/> PR4 4R16-125	16' (4.9m)	4" RD x .125"	35	10.0	8.6	6.4	4.8	3.6	2.9	2.4	2.0						
<input type="checkbox"/> PR4 4R10-226	10' (3.1m)	4" RD x .226"	38	23.8	21.0	16.7	13.5	11.1	9.3	8.0	6.9						
<input type="checkbox"/> PR4 4R12-226	12' (3.7m)	4" RD x .226"	44	19.2	16.9	13.3	10.6	8.6	7.2	6.1	5.3						
<input type="checkbox"/> PR4 4R14-226	14' (4.3m)	4" RD x .226"	51	15.9	13.9	10.8	8.4	6.8	5.6	4.7	4.0						
<input checked="" type="checkbox"/> PR4 4R16-226	16' (4.9m)	4" RD x .226"	57	12.4	12.3	9.4	7.3	5.7	4.7	4.0	3.3						
<input type="checkbox"/> PR4 4R18-226	18' (5.5m)	4" RD x .226"	63	11.7	10.0	7.5	5.6	4.3	3.5	2.9	2.4						
<input type="checkbox"/> PR4 4R20-226	20' (6.2m)	4" RD x .226"	70	9.5	8.1	5.9	4.2	3.1	2.4	1.9	1.6						

Note: Overall height is measured to top of pole.

**SPECIFICATIONS**

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

**WARNINGS**

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable. AAL recommends consulting a local engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

**CAUTION**

Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.

**ANCHOR BOLTS** shall be hot dip galvanized steel. Eight galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3".

See options/accessories details on page 2.

SOLD TO \_\_\_\_\_ PO # \_\_\_\_\_ JOB NAME \_\_\_\_\_

Approvals

**Architectural Area Lighting**

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**Job Name:**

SOUTH HADLEY PLAINS SCHOOL  
Architect: MARGO JONES ARCHITECTS  
(GREENFIELD)

**Catalog Number:**

PR44R15'-226-PTA-SBC-AWT-ABT

**Type:****LL-3 POLE**

Notes:

V13-39631

## Poles - PR4

### 4" ROUND (RD) POLE

#### OPTIONS / ACCESSORIES

- FH**  
Flag holder. (Specify location on pole)
- FS1**  
Single weatherproof fuse holder. Fuse by others.
- FS2**  
Double weatherproof fuse holder. Fuse by others.
- LR**  
Ladder rest. Slips over a 4" O.D. pole
- PCA-C**  
Rotatable photocell housing. The photocell can be aimed away from stray light sources for an accurate setting. The photocell is also shielded from light emissions from the fixture. The housing slips over a 4"/100mm o.d. pole. a fixture or arm slips over the 4"/100mm o.d. tenon. Includes an internal twist lock receptacle, and an access cover with integral lens and stainless steel tether. Adds 4.5"/114mm to the overall height of the pole/fixture assembly. Prewired on the load side and line side for easy installation. Photocell by others.
- PCA-T**  
Rotatable photocell housing. The housing slips over a 4"/100mm o.d. pole. a fixture slips over the 4"/100mm o.d. tenon. Includes an internal twist lock receptacle, and an access cover with integral lens and stainless steel tether. Adds 5"/125mm to the overall height of the pole/fixture assembly. Prewired on the load side and line side for easy installation. Photocell by others.
- PCR**  
Low profile twist lock photocell receptacle with cast pole cap top. Secures to the top of the pole with three stainless steel set screws. Photocell by others.
- PLT**  
Plant Hanger. For 4" o.d. poles. (specify location on pole)
- RBC**  
Cast aluminum receptacle housing, integrally welded to the pole. Includes a NEC approved clear weatherproof cover. Does not include a receptacle or internal wiring.
- TEN**  
2 3/8" O.D. X 4" Long.