

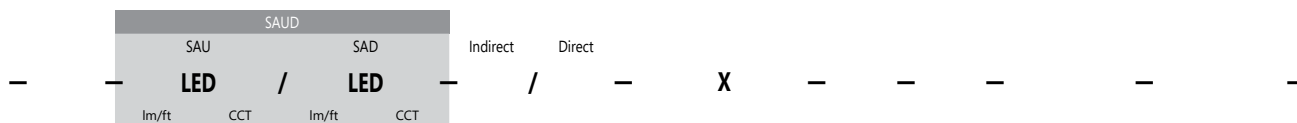
Customer Name	Date
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# Alumina Series

2, 3, 4, 6

The Alumina series by Forum is a line of extruded aluminum rectilinear luminaires. The 2" is a 2 3/8" wide housing with a 1 7/8" aperture. The 3" is a 2 19/16" wide housing with a 2 7/16" aperture. The 4" is a 4 1/2" wide housing with a 4" aperture. The 6" is a 6" wide housing with a 5 1/2" aperture. Multiple mounting configurations are available including various suspended types as well as wall mounted. Current's patented TriGain® phosphor delivers 90 CRI color quality at 80 CRI efficacy.

## Ordering



DISTRIBUTION	PROFILE	OUTPUT		SHIELDING	MOUNTING	LENGTH		VOLTAGE	FINISH	OPTION 1	OPTION 2	OPTION 3
<b>SAD</b> Direct	<b>32</b> 2 3/8" width 3 3/4" height	<b>65</b> 650 lm/ft	<b>27</b> 2700k temp 93.5%	<b>SAT</b> Satin Lens	<b>H</b> Stem Mount *	<b>2</b> 2'	<b>3</b> 3'	<b>120V</b>	<b>WH</b> White	<b>T90<sup>2</sup></b> TriGain® 90 CRI	<b>EMLED</b> LED battery pk	<b>MR</b> COB down light module
<b>SAU</b> Indirect	<b>42</b> 2 3/8" width 4 3/4" height	<b>32, 42, 62:</b> 6.5 input watts/ft*	<b>33, 43, 63:</b> 6.5 input watts/ft*	<b>WOL</b> White Opal Lens	<b>C</b> Cable Mount *	<b>4</b> 4'	<b>5</b> 5'	<b>277V</b>	<b>SV</b> Silver	<b>SW</b> Separate Switch	<b>90 CRI<sup>3,4</sup></b> 90 CRI	<b>EC</b> Emergency Circuit
<b>SAUD*</b> Direct/Indirect	<b>62</b> 2 3/8" width 6 3/4" height	<b>34, 44, 64:</b> 6.1 input watts/ft*	<b>36, 46, 66:</b> 5.7 input watts/ft*	<b>CFA</b> Clear Frosted Acrylic*	<b>S</b> Surface Mount†	<b>6</b> 6'	<b>7</b> 7'	<b>347V</b>	<b>BK</b> Black	<b>DL</b> Damp Location		
* Not available on 32,33,34,36 profiles	<b>33</b> 2 15/16" width 3 3/4" height	<b>95</b> 950 lm/ft	<b>35</b> 3500k temp 96.8%	<b>WOP</b> White Opal over Parabolic Baffle, direct only	<b>W</b> Wall Bracket Mount	<b>8</b> 8'	<b>9</b> 9'	<b>UNV</b> Universal	<b>CC</b> Custom Color	<b>DIMMING OPTIONS (CHOOSE 1)</b>		
	<b>43</b> 2 15/16" width 4 3/4" height	<b>32, 42, 62:</b> 9.5 input watts/ft*	<b>40</b> 4000k temp 100%	<b>SAP</b> Satin Lens over Parabolic Baffle, direct only	* Spec. cable / stem length:	<b>10</b> 10'	<b>11</b> 11'		Custom Color Available. Provide RAL# (required).	<b>D10V</b> 0-10V dimming 1% power class	<b>DMX</b> DMX DMX512 / RDM	<b>DLEH5</b> Lutron Hi-lume 1%-H EcoSystem LED driver with soft-On, Fade-to-Black
	<b>63</b> 2 15/16" width 6 3/4" height	<b>34, 44, 64:</b> 8.9 input watts/ft*	<b>50</b> 5000k temp 103%	<b>BWL</b> Bat Wing Lens		<b>12</b> 12'	Standard run length in even foot increments.			Individual units cannot be joined in field to create runs.	Setup fees apply.	<b>DALI</b> Digitally Addressable Lighting Interface
	<b>34</b> 4 1/2" width 3 3/4" height	* Assumes 4000k w/ satin lens	<b>TW*</b> 27K-65K	<b>LMC</b> Low Max Candela Bat Wing, indirect only	† Available in SAD (Direct) ONLY.							<b>DAINTREE® OPTIONS</b>
	<b>44</b> 4 1/2" width 4 3/4" height	Lumen Multiplier = % of 4000K	* Consult factory for other CCT ranges	<b>ASY</b> Asymmetric Lens			Consult factory for patterns			<b>TQ</b> Daintree® Networked Wireless Enabled for zonal control with WGT100 (use with WOS3 ceiling sensor)	<b>TS</b> Daintree® Networked Wireless Enabled with WFA100 adaptor for zonal control (use with WOS3 ceiling sensor)	<b>T1</b> Daintree® One with integrated WIZZO sensor with factory programmed preset*
	<b>64</b> 4 1/2" width 6 3/4" height	Consult factory for limitations	Custom Output	<b>DL1.5</b> Satin Glow Lens 1.5" deep 3" and 6" housing only		<b>TT</b> Daintree® EZ Connect Wireless with integrated WIZZO sensor		<b>TZ</b> Daintree® Networked Wireless with integrated WIZZO sensor				
	<b>36'</b> 6" width 3 3/4" height	<b>LED</b>		<b>TBS</b> Regressed lens satin, direct only		<b>CONTROLS OPTIONS (CHOOSE 1)</b>						
	<b>46'</b> 6" width 4 3/4" height	<b>32, 42, 62:</b> 430-1350 lm/ft <b>33, 43, 63:</b> 430-1510 lm/ft <b>34, 44, 64:</b> 460-1610 lm/ft <b>36, 46, 66:</b> 490-1710 lm/ft		<b>TBW</b> Regressed lens white opal, direct only		<b>OCC</b> Wattstopper occupancy sensor	<b>DPS</b> Wattstopper daylight photo sensor	<b>CRGBW</b> Casambi (RGBW)				
	<b>66'</b> 6" width 6 3/4" height	OR Replace LED Output With <b>RGBW</b>			* Available in SAU only	<b>C210</b> Casambi (2x 010v)	<b>ELM</b> Enlightened micro sensor	<b>OES</b> Osram SensiLUM				
		<b>LED</b>				<b>OEC</b> Osram Encelium CLM	<b>OED</b> Osram CLM DEXAL	<b>C110</b> Casambi (1x 010v)				
	temp				<b>LVR</b> Lutron Vive integrated fixture sensor (radio only)	<b>LVS</b> Lutron Vive integrated fixture sensor (occ+daylight)	<b>COX</b> COX Control Options Please specify control manufacturer/ model (if required)					

- 1 Available in WOL shielding only
- 2 TriGain available in 3000K, 35000K, and 4000K and is maximum lumen output of 950lm/LFT

- 3 Select for 2700K or 5000K CCT, or any lumen output over 950lm/LFT
- 4 Select when using RGBW or TW options

Note: Modifications and Customization is available, contact the manufacturer for more info.



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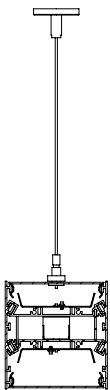
## CONTROLS & SENSORS

Ordering Code	Description
OCC	Wattstopper occupancy sensor
DPS	Wattstopper daylight photo sensor
LVS	Lutron Vive integrated fixture sensor (occ+daylight)
LVR	Lutron Vive integrated fixture sensor (radio only)
ELM	Enlighted micro sensor
OES	Osram SensiLUM
OEC	Osram Encelium CLM
OED	Osram CLM DEXAL
C110	Casambi (1x 010v)
C210	Casambi (2x 010v)
CRGBW	Casambi (RGBW)

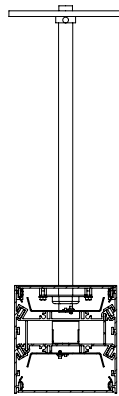
## DIMMING OPTIONS

Ordering Code	Description
D10V	0-10V Dimming, 1% power class
DLA2	Lutron Hi-lume 1% 2-1ire LED driver (120V forward phase only)
DLEH5	Lutron Hi-lume 1% H EcoSystem LED driver with soft-On, Fade-to-Black
DALI	Digitally Addressable Lighting Interface
DIM	Custom Dimming. Please specify dimming manufacturer/model
TQ	Daintree® Networked Wireless Enabled for zonal control with WGZ100 (use with WOS3 ceiling sensor)
TS	Daintree® Networked Wireless Enabled with WFA100 adapter for zonal control (use with WOS3 ceiling sensor)
TZ	Daintree® Networked Wireless with integrated WIZ20 sensor
TT	Daintree® EZ Connect Wireless with integrated WIZ20 sensor
T1	Daintree® One with integrated WIZ20 sensor with factory programmed preset*

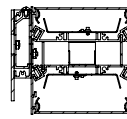
## MOUNTING



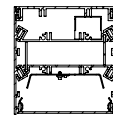
**C**  
Cable Mount



**H**  
Stem Mount



**W**  
Wall Bracket Mount



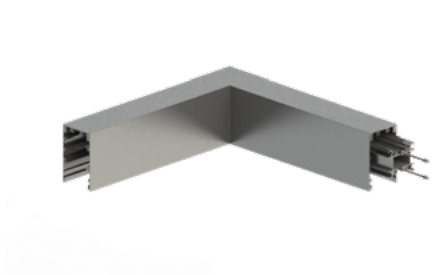
**S**  
Surface Mount  
(available in  
SAD only)



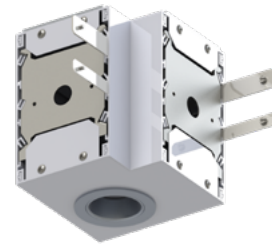
Customer Name	Date
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## Components and Assembly

### CORNER OPTIONS



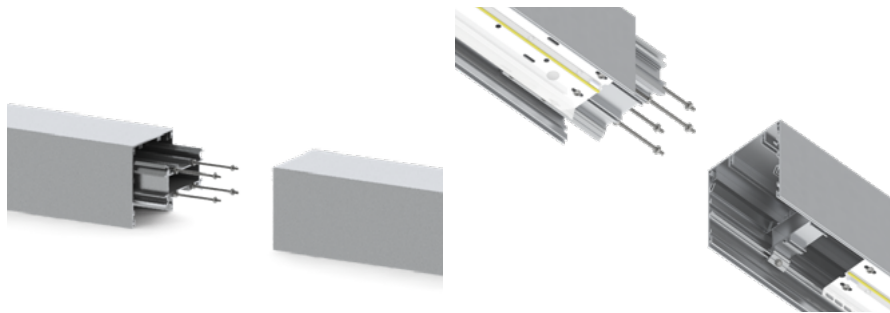
**90°\* CORNER**



**MR CORNER**

\* Custom angles available, up to 90°. Greater than 90°, consult factory.

### JOINING HARDWARE (INCLUDED)





# Alumina Series

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## Cross Sectionals

	ALUMINA2 2"W	ALUMINA3 3"W	ALUMINA4 4"W	ALUMINA6 6"W
3"H*	<p>Profile: 32 Options: SAD, SAU</p>	<p>Profile: 33 Options: SAD, SAU</p>	<p>Profile: 34 Options: SAD, SAU, ASY†</p>	<p>Profile: 36 Options: SAD, SAU, ASY†</p>
4"H	<p>Profile: 42 Options: SAD, SAU, SAUD</p>	<p>Profile: 43 Options: SAD, SAU, SAUD</p>	<p>Profile: 44 Options: SAD, SAU, SAUD, ASY†</p>	<p>Profile: 46 Options: SAD, SAU, SAUD, ASY†</p>
6"H	<p>Profile: 62 Options: SAD, SAU, SAUD</p>	<p>Profile: 63 Options: SAD, SAU, SAUD</p>	<p>Profile: 64 Options: SAD, SAU, SAUD, ASY†</p>	<p>Profile: 66 Options: SAD, SAU, SAUD, ASY†</p>

KEY	
SAD - DIRECT	SAUD - DIRECT/INDIRECT
SAU - INDIRECT	ASY - ASYMMETRIC

\* direct/indirect available with remote driver only

## RGBW Data

PRODUCT NAME	COLOR TEMPERATURE	CRI
SAX-xx-RGBWLED27	27K	90
SAX-xx-RGBWLED30	30K*	90*
SAX-xx-RGBWLED35	35K*	90*
SAX-xx-RGBWLED40	40K	90
SAX-xx-RGBWLED50	50K	90
SAX-xx-RGBWLED65	65K	90

\*CCT Normally Stocked. Example: SAX-22-RGBWLED27

## PRODUCT DESCRIPTION

Forum RGBW combines architectural grade white LEDs with RGB LEDs, poke in connectors, and a cut length of 2 inches for easy installation in any application. Color uniformity is matched across each order and for any run length.

## TECHNICAL SPECIFICATIONS

### RGBW LED MECHANICAL INFORMATION:

- Flexible reeled form factor
- Cuttable every 2 in
- Specification-Grade 3M 300LSE Adhesive Backing
- LED Pitch: 0.5 in
- Width: 0.787 in (20mm)
- Reel length 44'

### PHOTOMETRIC PERFORMANCE:

- Nominal White Output: 588 lum/ft (3500K, 90CRI, 240 mA/ft, 4' Run Length)
- Reel to Reel Color Uniformity
- Beam Angle: 120°
- CCT Range: 2700K - 6500K
- 90+ CRI Standard
- 3-Step MacAdam Ellipse Color Binning

### ELECTRICAL INFORMATION:

- Poke-In Connectors
- 24V Constant Voltage Input, Common Anode
- DMX Controllable in 4 channels
- On Board ESD Protection
- Power Draw: 14.3 W/ft
- Max Recommended Run Length per driver: 4'
- Wire Size: 18-24 AWG, solid or stranded

### LIFETIME INFORMATION:

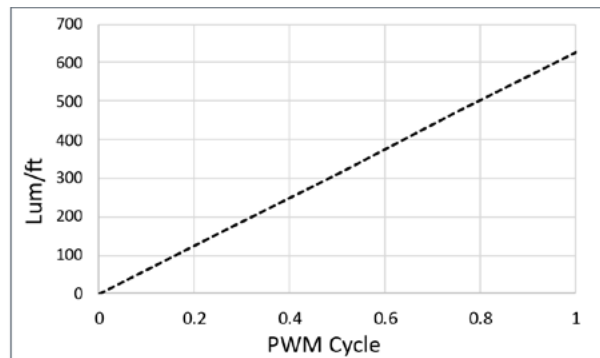
- LM-80 Tested LEDs by CREE
- L80 > 72,000 Hrs for Ts = 55°C, 42mA Per Section
- L80 = 60,500 Hrs for Ts = 105°C, 42mA Per Section
- 5-Year Warranty

## ELECTRICAL CHARACTERISTICS

Assuming 35K, 90 CRI, 45°C

WHITE	
Current (mA/ft)	240
Voltage (V)	24.0
Flux (lm/ft)	588
RED	
Current (mA/ft)	117
Voltage (V)	24.0
Flux (lm/ft)	9,600
GREEN	
Current (mA/ft)	109
Voltage (V)	24.0
Flux (lm/ft)	19,200
BLUE	
Current (mA/ft)	109
Voltage (V)	24.0
Flux (lm/ft)	4,800

### WHITE OUTPUT VS. PWM CYCLE



\*Forum maintains a tolerance of 7% on flux measurements.



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## RGBW Data - (Continued)

### ABSOLUTE MAXIMUM RATINGS

Assuming 35K, 90 CRI, 45°C

WHITE	
Current (mA/ft)	314
Voltage (V)	26
Flux (lm/ft)	804
Temperature (° C)	95

RED	
Current (mA/ft)	129
Voltage (V)	26
Temperature (° C)	85

GREEN	
Current (mA/ft)	120
Voltage (V)	26
Temperature (° C)	85

BLUE	
Current (mA/ft)	120
Voltage (V)	26
Temperature (° C)	85

COMPONENTS	
Max Connector Current (Common Anode)	9
Max Connector Current (4x Cathode)	3
Max Recommended Run Length (ft)	4

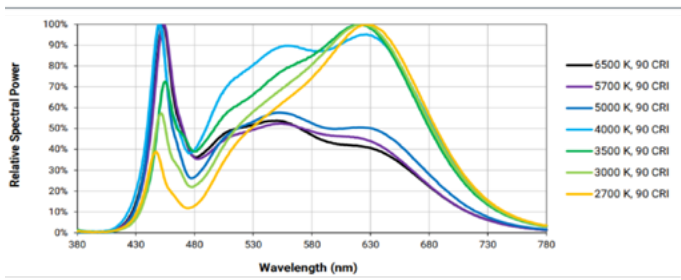
### DERATING

COLOR TEMPERATURE (90CRI)	LIGHT OUTPUT
2700K	93%
3000K	98%
3500K	100%
4000K	103%
5000K	103%
6500K	103%

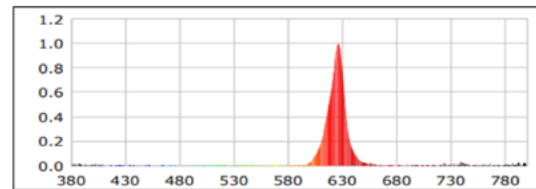
### OPTICAL SPECIFICATIONS

Spectral Power Distribution

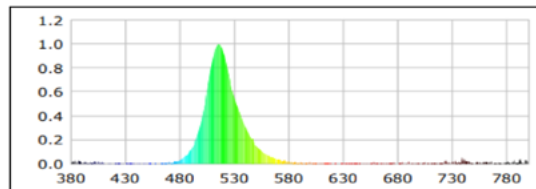
WHITE 90 CRI



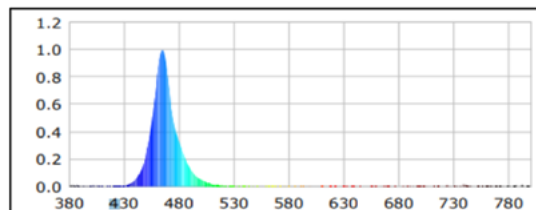
RED



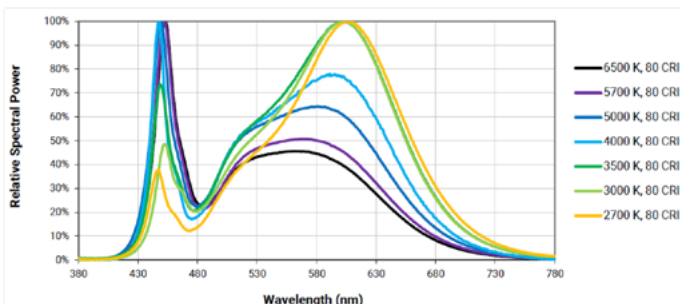
GREEN



BLUE



WHITE 80 CRI



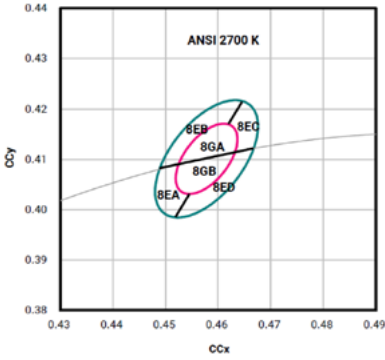


Customer Name	Date
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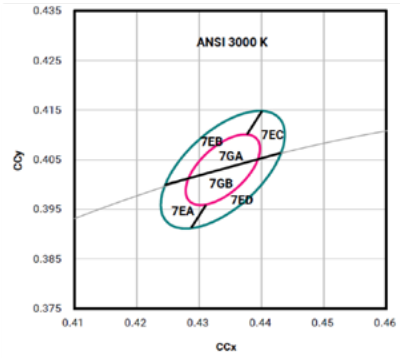
## RGBW Data - (Continued)

### COLOR BINNING INFORMATION

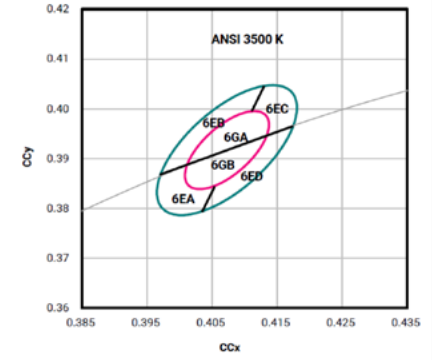
2700K 3-STEP (8GA, 8GB)



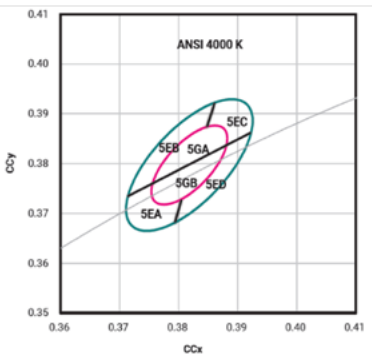
3000K 3-STEP (7GA, 7GB)



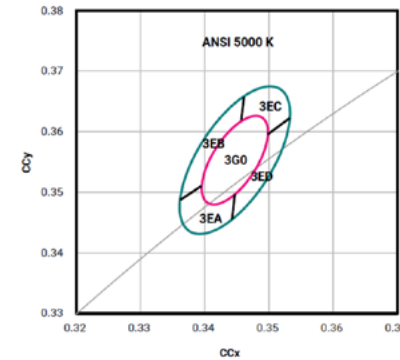
3500K 3-STEP (6GA, 6GB)



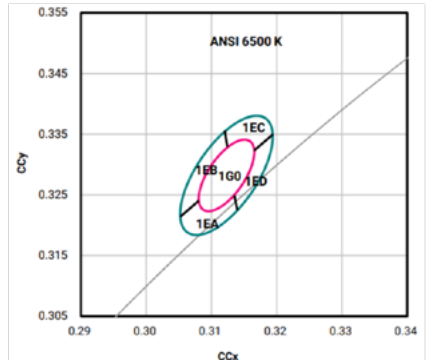
4000K 3-STEP (5GA, 5GB)



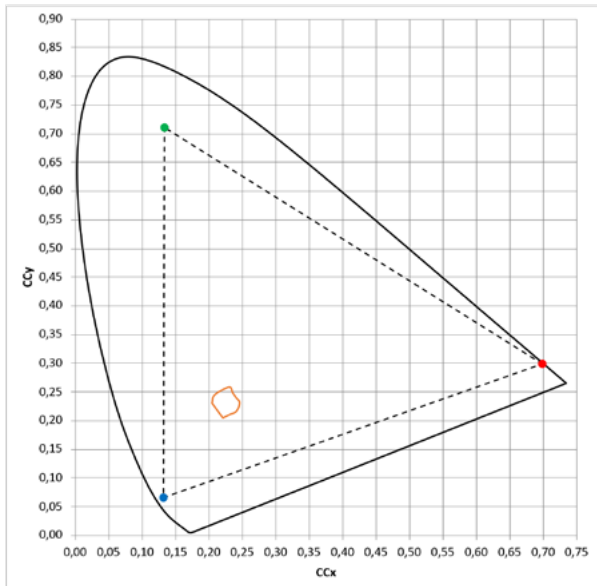
5000K 3-STEP (3G0)



6500K 3-STEP (1G0)



### RGB SINGLE BIN (WHITE-BINNED)



## TW Data

### ELECTRICAL CHARACTERISTICS

Instructions: Multiply the length of your run of LUXroll in inches by the desired flux and current to find the total values needed for your fixture.

#### 2700K, 90 CRI, 45°C

EACH 1" SEGMENT					
Current (mA/1")	10	20	30	45	60
Voltage (V)	32.7	33.9	35.0	36.3	37.2
Flux (lm/1")	42	83	120	172	217

1 FOOT					
Current (mA/ft)	120	240	360	540	720
Voltage (V)	32.7	33.9	35.0	36.3	37.2
Flux (lm/ft)	510	992	1445	2064	2602

8 FEET					
Current (mA/ft)	960	1920	2880	4320	5760
Voltage (V)	32.7	33.9	35.0	36.3	37.2
Flux (lm/ft)	4079	7939	11562	16510	20817

#### 6500K, 90 CRI, 45°C

EACH 1" SEGMENT					
Current (mA/1")	10	20	30	45	60
Voltage (V)	32.7	33.9	35.0	36.3	37.2
Flux (lm/1")	47	91	133	190	239

1 FOOT					
Current (mA/ft)	120	240	360	540	720
Voltage (V)	32.7	33.9	35.0	36.3	37.2
Flux (lm/ft)	563	1095	1595	2277	2871

8 FEET					
Current (mA/ft)	960	1920	2880	4320	5760
Voltage (V)	32.7	33.9	35.0	36.3	37.2
Flux (lm/ft)	4501	8760	12757	18216	22968

### COLOR MIXING

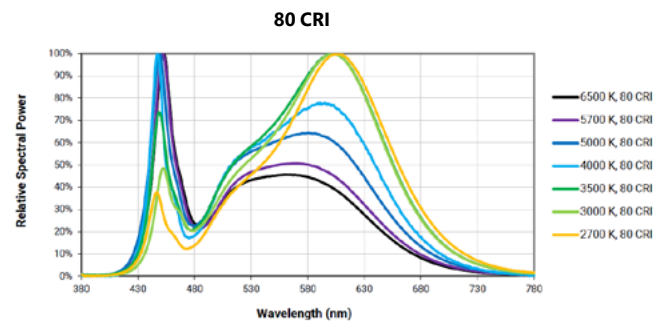
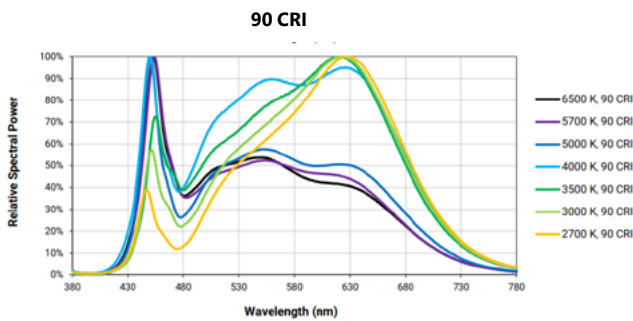
- Approximated from nominal current of 250mA per foot.
- Flux derating relative to 6500K EDs

CCT (K)						
Current, 27K (%)	100%	83%	67%	52%	30%	0%
Current, 65K (%)	0%	17%	33%	48%	70%	100%
Flux (%)	88%	90%	92%	94%	96%	100%
SDCM	3	6.5	8.5	8.5	6.5	3

\*Performances will vary based on installation and thermal conditions.

### OPTICAL SPECIFICATIONS

Spectral Power Distribution







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## Performance Data Tables

The tables below shows the delivered lumens for the various lumen outputs. Use this chart in connection with the output multiplier capability to deliver any output required

### 2IN ALUMINA

SAD-X2: 2in PWS - DIRECT ONLY

32	42	62	Distribution/Output	Lumens/Ft	W/Ft	Efficacy
			D035	350	3.8	91
			D040	400	4.3	92
			D045	450	5.0	91
			D050	500	5.6	90
			D055	550	6.1	91
			D060	600	6.7	90
			D065	650	7.3	89
			D070	700	7.8	90
			D075	750	8.4	89
			D080	800	9.0	89
			D085	850	9.7	88
			D090	900	10.3	87
			D095	950	11.0	87
			D100	1000	11.6	86
			D105	1050	12.3	86
			D110	1100	12.9	85
			D115	1150	13.6	85
			D120	1200	14.2	84

SAU-X2: 2in PWS - INDIRECT ONLY

32	42	62	Distribution/Output	Lumens/Ft	W/Ft	Efficacy
			I040	400	3.8	104
			I045	450	4.3	104
			I050	500	4.8	104
			I055	550	5.2	105
			I060	600	5.6	106
			I065	650	6.1	107
			I070	700	6.5	108
			I075	750	6.9	108
			I080	800	7.4	109
			I085	850	7.9	107
			I090	900	8.4	107
			I095	950	8.8	108
			I100	1000	9.4	107
			I105	1050	9.8	107
			I110	1100	10.2	108
			I115	1150	10.8	107
			I120	1200	11.2	107
			I125	1250	11.7	107
			I130	1300	12.2	106
			I135	1350	12.7	107
			I140	1400	13.2	106

SAUD-X2: 2in PWS - DIRECT / INDIRECT ONLY

32	42	62	Distribution/Output	Lumens/Ft	W/Ft	Efficacy
			D035	350	3.8	91
			D040	400	4.3	92
			D045	450	5.0	91
			D050	500	5.6	90
			D055	550	6.1	91
			D060	600	6.7	90
			D065	650	7.3	89
			D070	700	7.8	90
			D075	750	8.4	89
			D080	800	9.0	89
			D085	850	9.7	88
			D090	900	10.3	87
			D095	950	11.0	87
			D100	1000	11.6	86
			D105	1050	12.3	86
			D110	1100	12.9	85
			D115	1150	13.6	85
			D120	1200	14.2	84
			I040	400	3.8	104
			I045	450	4.3	104
			I050	500	4.8	104
			I055	550	5.2	105
			I060	600	5.6	106
			I065	650	6.1	107
			I070	700	6.5	108
			I075	750	6.9	108
			I080	800	7.4	109
			I085	850	7.9	107
			I090	900	8.4	107
			I095	950	8.8	108
			I100	1000	9.4	107
			I105	1050	9.8	107
			I110	1100	10.2	108
			I115	1150	10.8	107
			I120	1200	11.2	107
			I125	1250	11.7	107
			I130	1300	12.2	106
			I135	1350	12.7	107
			I140	1400	13.2	106



Customer Name	Date
Project Name	
Catalog Number	

## Performance Data Tables - (Continued)

The tables below shows the delivered lumens for the various lumen outputs. Use this chart in connection with the output multiplier capability to deliver any output required

### 3IN ALUMINA

SAD-X3: 3in PWS - DIRECT ONLY

33	43	63	Distribution/Output	Lumens/Ft	W/Ft	Efficacy
			D035	350	3.7	94
			D040	400	4.2	96
			D045	450	4.8	94
			D050	500	5.4	92
			D055	550	5.9	93
			D060	600	6.5	92
			D065	650	7.2	91
			D070	700	7.7	91
			D075	750	8.3	90
			D080	800	9.0	89
			D085	850	9.6	88
			D090	900	10.3	88
			D095	950	10.9	87
			D100	1000	11.6	86
			D105	1050	12.3	86
			D110	1100	12.9	85
			D115	1150	13.6	84
			D120	1200	14.3	84
			D125	1250	15.0	83

SAU-X3: 3in PWS - INDIRECT ONLY

33	43	63	Distribution/Output	Lumens/Ft	W/Ft	Efficacy
			I040	400	3.8	104
			I045	450	4.3	104
			I050	500	4.8	105
			I055	550	5.2	105
			I060	600	5.7	106
			I065	650	6.2	106
			I070	700	6.6	106
			I075	750	7.1	106
			I080	800	7.5	106
			I085	850	8.1	105
			I090	900	8.6	105
			I095	950	9.0	105
			I100	1000	9.6	104
			I105	1050	10.1	104
			I110	1100	10.5	104
			I115	1150	11.2	103
			I120	1200	11.6	104
			I125	1250	12.2	103
			I130	1300	12.7	102
			I135	1350	13.2	102
			I140	1400	13.8	102
			I145	1450	14.4	101
			I150	1500	14.9	100

SAUD-X3: 3in PWS - DIRECT / INDIRECT ONLY

33	43	63	Distribution/Output	Lumens/Ft	W/Ft	Efficacy
			D035	350	3.7	94
			D040	400	4.2	96
			D045	450	4.8	94
			D050	500	5.4	92
			D055	550	5.9	93
			D060	600	6.5	92
			D065	650	7.2	91
			D070	700	7.7	91
			D075	750	8.3	90
			D080	800	9.0	89
			D085	850	9.6	88
			D090	900	10.3	88
			D095	950	10.9	87
			D100	1000	11.6	86
			D105	1050	12.3	86
			D110	1100	12.9	85
			D115	1150	13.6	84
			D120	1200	14.3	84
			D125	1250	15.0	83

			I040	400	3.8	104
			I045	450	4.3	104
			I050	500	4.8	105
			I055	550	5.2	105
			I060	600	5.7	106
			I065	650	6.2	106
			I070	700	6.6	106
			I075	750	7.1	106
			I080	800	7.5	106
			I085	850	8.1	105
			I090	900	8.6	105
			I095	950	9.0	105
			I100	1000	9.6	104
			I105	1050	10.1	104
			I110	1100	10.5	104
			I115	1150	11.2	103
			I120	1200	11.6	104
			I125	1250	12.2	103
			I130	1300	12.7	102
			I135	1350	13.2	102
			I140	1400	13.8	102
			I145	1450	14.4	101
			I150	1500	14.9	100



Customer Name	Date
Project Name	
Catalog Number	

## Performance Data Tables - (Continued)

The tables below shows the delivered lumens for the various lumen outputs. Use this chart in connection with the output multiplier capability to deliver any output required

### 4IN ALUMINA

SAD-X4: 4in PWS - DIRECT ONLY (3500K, SAT)

34	44	64	Distribution/Output	Lumens/Ft	W/Ft	Efficacy
			D035	350	3.1	113
			D040	400	3.5	114
			D045	450	4.0	113
			D050	500	4.5	111
			D055	550	4.9	112
			D060	600	5.4	111
			D065	650	5.9	110
			D070	700	6.3	111
			D075	750	6.8	110
			D080	800	7.3	110
			D085	850	7.8	109
			D090	900	8.3	108
			D095	950	8.8	108
			D100	1000	9.3	108
			D105	1050	9.8	107
			D110	1100	10.3	107
			D115	1150	10.8	106
			D120	1200	11.3	106
			D125	1250	11.8	106
			D130	1300	12.3	106
			D135	1350	12.8	105
			D140	1400	13.3	105
			D145	1450	13.8	105

SAU-X4: 4in PWS - INDIRECT ONLY

34	44	64	Distribution/Output	Lumens/Ft	W/Ft	Efficacy
			I040	400	3.3	121
			I045	450	3.7	122
			I050	500	4.1	122
			I055	550	4.5	122
			I060	600	4.9	122
			I065	650	5.3	123
			I070	700	5.7	123
			I075	750	6.1	123
			I080	800	6.5	123
			I085	850	7.0	121
			I090	900	7.4	122
			I095	950	7.8	122
			I100	1000	8.3	120
			I105	1050	8.7	121
			I110	1100	9.1	121
			I115	1150	9.6	120
			I120	1200	10.0	120
			I125	1250	10.5	119
			I130	1300	11.0	118
			I135	1350	11.4	118
			I140	1400	11.9	118
			I145	1450	12.4	117
			I150	1500	12.9	116

SAUD-X4: 4in PWS - DIRECT / INDIRECT ONLY

33	43	63	Distribution/Output	Lumens/Ft	W/Ft	Efficacy
			D035	350	3.1	113
			D040	400	3.5	114
			D045	450	4.0	113
			D050	500	4.5	111
			D055	550	4.9	112
			D060	600	5.4	111
			D065	650	5.9	110
			D070	700	6.3	111
			D075	750	6.8	110
			D080	800	7.3	110
			D085	850	7.8	109
			D090	900	8.3	108
			D095	950	8.8	108
			D100	1000	9.3	108
			D105	1050	9.8	107
			D110	1100	10.3	107
			D115	1150	10.8	106
			D120	1200	11.3	106
			D125	1250	11.8	106
			D130	1300	12.3	106
			D135	1350	12.8	105
			D140	1400	13.3	105
			D145	1450	13.8	105

			I040	400	3.3	121
			I045	450	3.7	122
			I050	500	4.1	122
			I055	550	4.5	122
			I060	600	4.9	122
			I065	650	5.3	123
			I070	700	5.7	123
			I075	750	6.1	123
			I080	800	6.5	123
			I085	850	7.0	121
			I090	900	7.4	122
			I095	950	7.8	122
			I100	1000	8.3	120
			I105	1050	8.7	121
			I110	1100	9.1	121
			I115	1150	9.6	120
			I120	1200	10.0	120
			I125	1250	10.5	119
			I130	1300	11.0	118
			I135	1350	11.4	118
			I140	1400	11.9	118
			I145	1450	12.4	117
			I150	1500	12.9	116



Customer Name	Date
Project Name	
Catalog Number	

## Performance Data Tables - (Continued)

The tables below shows the delivered lumens for the various lumen outputs. Use this chart in connection with the output multiplier capability to deliver any output required

### 6IN ALUMINA

SAD-X6: 6in PWS - DIRECT ONLY

36	46	66	Distribution/Output	Lumens/Ft	W/Ft	Efficacy
			D035	350	3.4	103
			D040	400	3.8	105
			D045	450	4.3	105
			D050	500	4.7	106
			D055	550	5.2	106
			D060	600	5.7	105
			D065	650	6.2	105
			D070	700	6.7	104
			D075	750	7.2	104
			D080	800	7.8	103
			D085	850	8.3	102
			D090	900	8.9	101
			D095	950	9.4	101
			D100	1000	10.0	100
			D105	1050	10.6	99
			D110	1100	11.2	98
			D115	1150	11.8	97
			D120	1200	12.4	97
			D125	1250	13.0	96
			D130	1300	13.6	96
			D135	1350	14.3	94
			D140	1400	14.9	94

SAU-X6: 6in PWS - INDIRECT ONLY

36	46	66	Distribution/Output	Lumens/Ft	W/Ft	Efficacy
			I035	350	3.1	113
			I040	400	3.5	114
			I045	450	3.9	115
			I050	500	4.4	114
			I055	550	4.8	115
			I060	600	5.2	115
			I065	650	5.6	116
			I070	700	6.1	115
			I075	750	6.5	115
			I080	800	7.0	114
			I085	850	7.4	115
			I090	900	7.9	114
			I095	950	8.4	113
			I100	1000	8.9	112
			I105	1050	9.3	113
			I110	1100	9.8	112
			I115	1150	10.3	112
			I120	1200	10.8	111
			I125	1250	11.3	111
			I130	1300	11.8	110
			I135	1350	12.3	110
			I140	1400	12.8	109
			I145	1450	13.3	109
			I150	1500	13.9	108

SAUD-X6: 6in PWS - DIRECT / INDIRECT ONLY

33	43	63	Distribution/Output	Lumens/Ft	W/Ft	Efficacy
			D035	350	3.4	103
			D040	400	3.8	105
			D045	450	4.3	105
			D050	500	4.7	106
			D055	550	5.2	106
			D060	600	5.7	105
			D065	650	6.2	105
			D070	700	6.7	104
			D075	750	7.2	104
			D080	800	7.8	103
			D085	850	8.3	102
			D090	900	8.9	101
			D095	950	9.4	101
			D100	1000	10.0	100
			D105	1050	10.6	99
			D110	1100	11.2	98
			D115	1150	11.8	97
			D120	1200	12.4	97
			D125	1250	13.0	96
			D130	1300	13.6	96
			D135	1350	14.3	94
			D140	1400	14.9	94
			I035	350	3.1	113
			I040	400	3.5	114
			I045	450	3.9	115
			I050	500	4.4	114
			I055	550	4.8	115
			I060	600	5.2	115
			I065	650	5.6	116
			I070	700	6.1	115
			I075	750	6.5	115
			I080	800	7.0	114
			I085	850	7.4	115
			I090	900	7.9	114
			I095	950	8.4	113
			I100	1000	8.9	112
			I105	1050	9.3	113
			I110	1100	9.8	112
			I115	1150	10.3	112
			I120	1200	10.8	111
			I125	1250	11.3	111
			I130	1300	11.8	110
			I135	1350	12.3	110
			I140	1400	12.8	109
			I145	1450	13.3	109
			I150	1500	13.9	108

### OUTPUT MULTIPLIER TABLE

Photometrics and outputs published on this spec sheet are based on nominal 3500K temperature. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

CCT	80 CRI
3000K	0.98
3500K	1
4000K	1.03

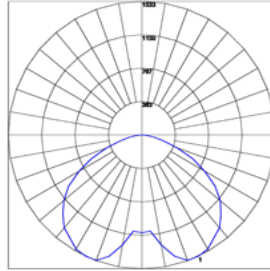
Lens	Multiplier
SAT	1.00
WOL	0.84



## Photometrics

### Direct Batwing 4000K

4,125 Lumens  
SAD-x4-95LED40-BW-C X 4'-WH



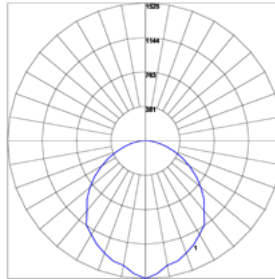
— Vertical plane at max Cd horiz. angle  
— Horizontal cone at max Cd vert. angle

ZONE	LUMENS
0-10	106.60
10-20	345.53
20-30	579.87
30-40	728.97
40-50	779.42
50-60	708.85
60-70	520.08
70-80	275.73
80-90	79.56
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

ZONE	LUMENS	% OF FIXTURE
0-20	452.13	11.00
0-30	1032.00	25.00
0-40	1760.97	42.70
0-60	3249.24	78.80
0-80	4045.04	98.10
0-90	4124.61	100.00
10-90	4018.01	97.40
20-40	1308.85	31.70
20-50	2088.26	50.60
40-70	2008.34	48.70
60-80	795.81	19.30
70-80	275.73	6.70
80-90	79.56	1.90
90-110	0.00	0.00
90-120	0.00	0.00
90-130	0.00	0.00
90-150	0.00	0.00
90-180	0.00	0.00
110-180	0.00	0.00
0-180	4124.61	100.00

### Direct Satin Lens 4000K

3,623 Lumens  
SAD-x4-95LED40-SAT-C X 4'-WH



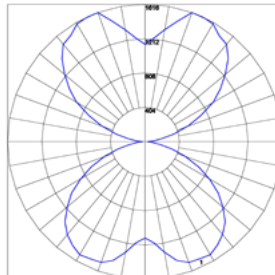
— Vertical plane at max Cd horiz. angle  
— Horizontal cone at max Cd vert. angle

ZONE	LUMENS
0-10	139.18
10-20	389.56
20-30	579.29
30-40	685.13
40-50	685.42
50-60	594.33
60-70	437.22
70-80	242.83
80-90	69.81
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

ZONE	LUMENS	% OF FIXTURE
0-20	528.74	13.80
0-30	1108.04	29.00
0-40	1793.16	46.90
0-60	3072.01	80.40
0-80	3752.97	98.20
0-90	3822.78	100.00
10-90	3683.60	96.40
20-40	1264.42	33.10
20-50	1949.85	51.00
40-70	1716.97	44.90
60-80	680.05	17.80
70-80	242.83	6.40
80-90	69.81	1.80
90-110	0.00	0.00
90-120	0.00	0.00
90-130	0.00	0.00
90-150	0.00	0.00
90-180	0.00	0.00
110-180	0.00	0.00
0-180	3822.78	100.00

### Direct Batwing Indirect Batwing 4000K

8,501 Lumens  
SAUD-x4-95LED40-BW+BW-C X 4'-WH



— Vertical plane at max Cd horiz. angle  
— Horizontal cone at max Cd vert. angle

ZONE	LUMENS
0-10	108.37
10-20	347.11
20-30	580.39
30-40	730.71
40-50	773.67
50-60	685.37
60-70	496.54
70-80	268.81
80-90	83.61
90-100	99.14
100-110	319.59
110-120	569.89
120-130	755.51
130-140	828.92
140-150	770.55
150-160	609.13
160-170	361.59
170-180	112.29

ZONE	LUMENS	% OF FIXTURE
0-20	455.48	5.40
0-30	1035.88	12.20
0-40	1766.59	20.80
0-60	3225.63	37.90
0-80	3990.98	46.90
0-90	4074.58	47.90
10-90	3966.21	46.70
20-40	1311.11	15.40
20-50	2084.78	24.50
40-70	1955.58	23.00
60-80	765.35	9.00
70-80	268.81	3.20
80-90	83.61	1.00
90-110	418.73	4.90
90-120	988.62	11.60
90-130	1744.13	20.50
90-150	3343.60	39.30
90-180	4426.61	52.10
110-180	4007.88	47.10
0-180	8501.20	100.00

For more information, refer to IES files at [www.ForumLighting.com](http://www.ForumLighting.com)



# Alumina Series

2, 3, 4, 6

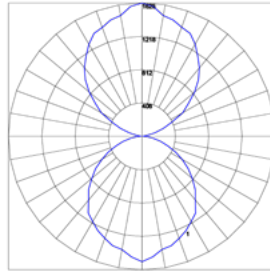
Customer Name	Date
Project Name	
Catalog Number	

## Photometrics

**Direct Clear Frosted Acrylic**  
**Indirect Satin Lens**  
**4000K**

7,692 Lumens

SAUD-x4-95LED40-CFA+SAT-C X 4'-WH



— Vertical plane at max Cd horiz. angle  
 — Horizontal cone at max Cd vert. angle

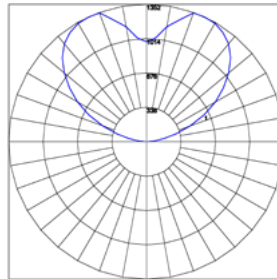
ZONE	LUMENS
0-10	139.18
10-20	389.56
20-30	579.29
30-40	685.13
40-50	685.42
50-60	594.33
60-70	437.22
70-80	242.83
80-90	69.81
90-100	24.38
100-110	164.75
110-120	395.63
120-130	612.65
130-140	737.61
140-150	741.64
150-160	630.54
160-170	415.43
170-180	146.99

ZONE	LUMENS	% OF FIXTURE
0-20	528.74	6.90
0-30	1108.04	14.40
0-40	1793.16	23.30
0-60	3072.91	39.90
0-80	3752.97	48.80
0-90	3822.78	49.70
10-90	3683.60	47.90
20-40	1264.42	16.40
20-50	1949.85	25.30
40-70	1716.97	22.30
60-80	680.05	8.80
70-80	242.83	3.20
80-90	69.81	0.90
90-110	189.12	2.50
90-120	584.76	7.60
90-130	1197.41	15.60
90-150	2676.66	34.80
90-180	3869.63	50.30
110-180	3680.50	47.80
0-180	7692.40	100.00

**Indirect Batwing**  
**4000K**

3,759 Lumens

SAU-x4-95LED40-BW-C X 4'-WH



— Vertical plane at max Cd horiz. angle  
 — Horizontal cone at max Cd vert. angle

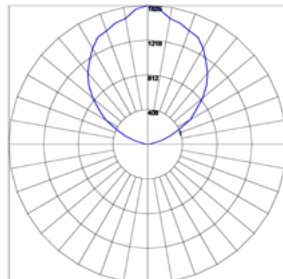
ZONE	LUMENS
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	84.63
100-110	272.24
110-120	484.43
120-130	641.64
130-140	704.50
140-150	654.80
150-160	514.81
160-170	306.77
170-180	95.68

ZONE	LUMENS	% OF FIXTURE
0-20	0.00	0.00
0-30	0.00	0.00
0-40	0.00	0.00
0-60	0.00	0.00
0-80	0.00	0.00
0-90	0.00	0.00
10-90	0.00	0.00
20-40	0.00	0.00
20-50	0.00	0.00
40-70	0.00	0.00
60-80	0.00	0.00
70-80	0.00	0.00
80-90	0.00	0.00
90-110	356.87	9.50
90-120	841.30	22.40
90-130	1482.93	39.40
90-150	2842.24	75.60
90-180	3759.49	100.00
110-180	3402.63	90.50
0-180	3759.49	100.00

**Indirect Clear Frosted Acrylic**  
**4000K**

3,870 Lumens

SAU-x4-95LED40-CFA-C X 4'-WH



— Vertical plane at max Cd horiz. angle  
 — Horizontal cone at max Cd vert. angle

ZONE	LUMENS
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	24.38
100-110	164.75
110-120	395.63
120-130	612.65
130-140	737.61
140-150	741.64
150-160	630.54
160-170	415.43
170-180	146.99

ZONE	LUMENS	% OF FIXTURE
0-20	0.00	0.00
0-30	0.00	0.00
0-40	0.00	0.00
0-60	0.00	0.00
0-80	0.00	0.00
0-90	0.00	0.00
10-90	0.00	0.00
20-40	0.00	0.00
20-50	0.00	0.00
40-70	0.00	0.00
60-80	0.00	0.00
70-80	0.00	0.00
80-90	0.00	0.00
90-110	189.12	4.90
90-120	584.76	15.10
90-130	1197.41	30.90
90-150	2676.66	69.20
90-180	3869.63	100.00
110-180	3680.50	95.10
0-180	7692.40	100.00

For more information, refer to IES files at [www.ForumLighting.com](http://www.ForumLighting.com)



# Alumina Series

2, 3, 4, 6

Customer Name	Date
Project Name	
Catalog Number	

## CONSTRUCTION

<b>Housing:</b>	Extruded aluminum, machined endcaps
<b>Lens:</b>	Satin frosted, white opal, and clear acrylic lenses. Aluminum parabolic baffles in a variety of finishes.
<b>Optical Assembly:</b>	.040" aluminum in a pre-paint white finish. Fully wired unit remains completely accessible from below via ballast panel.
<b>Paint:</b>	Black, White, Silver, Custom Color
<b>Weight:</b>	22-66 (lb?)

## OPTICAL SYSTEM

<b>Lumens:</b>	120-277V (universal), 347V available upon request
<b>Distribution:</b>	Direct (SAD), Indirect (SAU), and Direct/Indirect (SAUD), up = Lamb. BW, ASY dn = Lamb. BW ASY
<b>Efficacy:</b>	up to 122 LPW
<b>Wattage:</b>	6.5 - 9.5 watts/ft
<b>CCT:</b>	2700k, 3000K, 3500K, 4000K, 5000K
<b>CRI (Min):</b>	TriGain® 90CRI
<b>R9 (Min):</b>	65
<b>Color Consistency:</b>	2SDCM

## ELECTRICAL

<b>Input Voltage:</b>	120-277V (universal), 347V available upon request
<b>Input Frequency:</b>	50/60Hz
<b>Power Factor (PF):</b>	>0.9
<b>Total Harmonic Distortion (THD):</b>	<16% - 120V <20% - 277V
<b>Temperature / Humidity:</b>	Suitable for Damp Locations
<b>Transient Protection:</b>	All Non-Lutron = 2.5KV Lutron = 4KV

## CONTROLS

<b>Dimming:</b>	0-10V 1% power class; Lutron Hi-lume 1% 2-wire LED driver; Lutron Hi-lume 1%-H EcoSystem LED driver with soft-On Fade-to-Black; Lutron 5-Series EcoSystem LED driver; Digitally Addressable Lighting Interface; Custom Dimming, Daintree® Wireless
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## OPERATING TEMPERATURE

Product	Operating Temperature
<b>STD (Non-EM) Options</b>	-30-25°C (-22-77°F)
<b>2in w/Battery</b>	10-25°C (50-77°F)
<b>3/4/6in w/Battery</b>	0-25°C (32-77°F)

## LUMEN MAINTENANCE

- L70>50K Hours

## MOUNTING

- C - Cable Mount
- H - Stem Mount
- W - Wall Bracket Mount
- S - Surface Mount (available in SAD only)

## DESIGN LIFE & WARRANTY

- Warranty:**
- LED boards - 5 years
  - LED drivers (standard) - 5 years
  - LED drivers (Lutron) - 3 years



For Product or Technical Questions:

E: INFO@FORUMLIGHTING.COM  
T: +1 412 781 5970