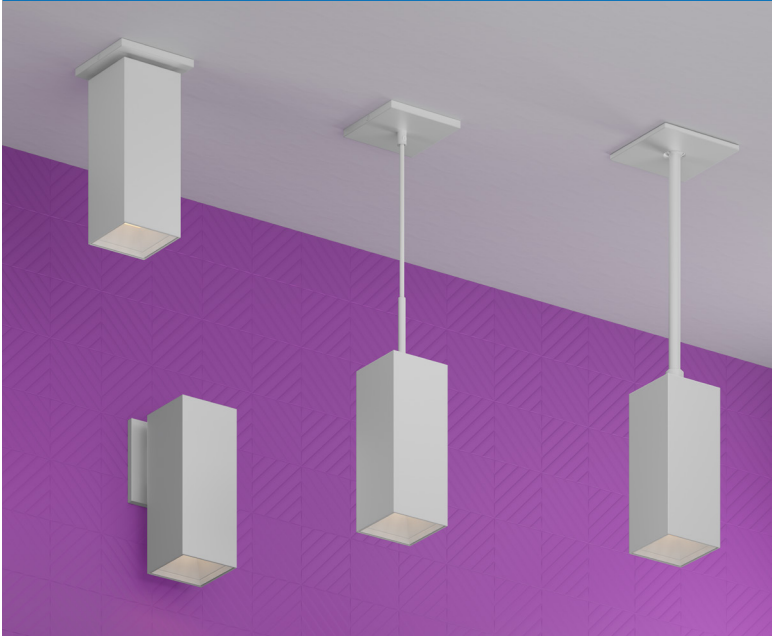


# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## BETA 3

### 3" Square Tunable White



65° - 80° BEAM (Note: Specifications are subject to change without notice)		
14mm LUMINUS COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	1010LM @35K/95CRI	14W
Notes	Delivered lumens based on WH75, 3500K (see page 2)	

65° - 80° BEAM (Note: Specifications are subject to change without notice)		
14mm NICHIA COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	1150LM @35K/80CRI	13W
Notes	Delivered lumens based on WH75, 3500K (see page 2)	



#### FEATURES

- Seamless extrusion with powder coated finish for clean aesthetics
- Thermally optimized for longevity
- 65° - 80° beam spread
- UGR < 22
- Micro slim canopy option at 3/8" depth
- Multiple mounting, glare control options, trims and finishes available

#### DIMMING AND CONTROLS

- Flicker free 0-10V dimming to 1%
- DMX dimming to 1%
- Casambi bluetooth dimming to 1%

#### CONSTRUCTION

- Extruded aluminum housing
- Lexan™ (PC) Optimal connectivity for wireless control signal
- Machined aluminum canopy
- SVT pendant cord

#### LED

- Luminus tunable white COB: 95 CRI, R9 > 70; SDCM = 4-step MacAdam Ellipse; Lumen Maintenance: L70 > 54,000 hrs
- Nichia tunable white COB: 80 CRI, R9 > 0; SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L90 > 33,000 hrs

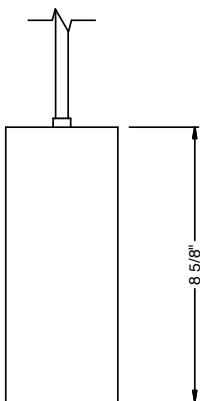
#### LISTING

- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- Suitable for dry and damp locations
- 5 Year Limited warranty

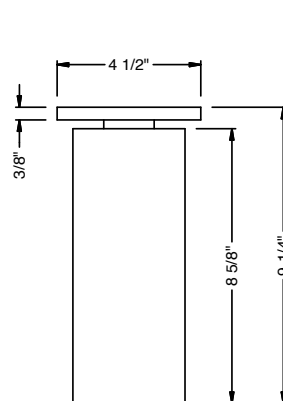
#### ELECTRICAL

- 120V-277V
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Battery Backups not offered
- Emergency Generator/Inverter/Controls-Override Device supplied by other

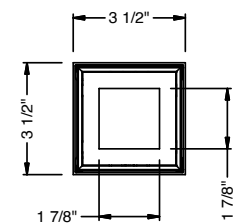
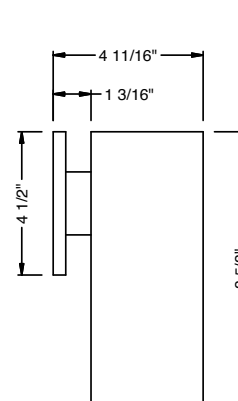
#### PENDANT



#### SURFACE MOUNT



#### WALL MOUNT



# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## 9°- 55° BEAM ORDERING CODE

<b>SERIES</b>	<b>BETA</b>	BETA																								
<b>TYPE</b>	<b>3Q</b>	3" square																								
<b>LED</b>	<b>TW</b>	tunable white (Luminus)																								
<b>DELIVERED LUMENS</b>	<b>10LM</b>	1010 lm																								
	Standard Configuration: 3500K WH75 Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]																									
<b>CCT</b>	<b>2765</b>	2700K to 6500K tunable white																								
		<table border="1"> <thead> <tr> <th>CCT</th> <th>2700K</th> <th>3000K</th> <th>3500K</th> <th>4000K</th> <th>5000K</th> <th>5700K</th> <th>6500K</th> </tr> </thead> <tbody> <tr> <td>CCT MULTIPLIER FOR LUMEN OUTPUT</td> <td>0.91</td> <td>0.98</td> <td>1</td> <td>0.7</td> <td>1</td> <td>1.01</td> <td>1.02</td> </tr> <tr> <td>EML RATIO</td> <td>0.49</td> <td>0.57</td> <td>0.68</td> <td>0.79</td> <td>0.96</td> <td>1.04</td> <td>1.12</td> </tr> </tbody> </table>	CCT	2700K	3000K	3500K	4000K	5000K	5700K	6500K	CCT MULTIPLIER FOR LUMEN OUTPUT	0.91	0.98	1	0.7	1	1.01	1.02	EML RATIO	0.49	0.57	0.68	0.79	0.96	1.04	1.12
	CCT	2700K	3000K	3500K	4000K	5000K	5700K	6500K																		
	CCT MULTIPLIER FOR LUMEN OUTPUT	0.91	0.98	1	0.7	1	1.01	1.02																		
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	<table border="1"> <thead> <tr> <th>CCT</th> <th>1800K</th> <th>2000K</th> <th>2400K</th> <th>2700K</th> <th>3000K</th> <th>3500K</th> <th>4000K</th> </tr> </thead> <tbody> <tr> <td>CCT MULTIPLIER FOR LUMEN OUTPUT</td> <td>0.67</td> <td>0.74</td> <td>0.8</td> <td>0.85</td> <td>0.88</td> <td>0.95</td> <td>1.01</td> </tr> <tr> <td>EML RATIO</td> <td>0.21</td> <td>0.33</td> <td>0.45</td> <td>0.53</td> <td>0.59</td> <td>0.67</td> <td>0.73</td> </tr> </tbody> </table>	CCT	1800K	2000K	2400K	2700K	3000K	3500K	4000K	CCT MULTIPLIER FOR LUMEN OUTPUT	0.67	0.74	0.8	0.85	0.88	0.95	1.01	EML RATIO	0.21	0.33	0.45	0.53	0.59	0.67	0.73	
CCT	1800K	2000K	2400K	2700K	3000K	3500K	4000K																			
CCT MULTIPLIER FOR LUMEN OUTPUT	0.67	0.74	0.8	0.85	0.88	0.95	1.01																			
EML RATIO	0.21	0.33	0.45	0.53	0.59	0.67	0.73																			
	<b>1840</b>	1800K to 4000K tunable white																								
<b>CRI</b>	<b>95</b>	95 typical, 90 minimum																								
<b>OPTIC &amp; LM MULTIPLIER</b> SEE PAGE 5	<b>HE65</b>	65° high efficiency diffused lens (0.95)																								
	<b>HE80</b>	80° high efficiency diffused lens (0.93)																								
	<b>WH75</b>	75° brilliant white with clear lens (1.00)																								
<b>FINISH</b> SEE PAGE 4	<b>BK</b>	black																								
	<b>WH</b>	white																								
	<b>MC</b>	matte chrome																								
<b>BEZEL COLOR</b> SEE PAGE 4	<b>BK</b>	black (0.98)																								
	<b>WH</b>	white (1.00)																								
	<b>MC</b>	matte chrome (0.99)																								
	<b>BZ</b>	bronze (0.98)																								
	<b>WT</b>	wheat (0.99)																								

## 9°- 55° BEAM ORDERING CODE

<b>MOUNTING OPTIONS</b> SEE PAGE 6	<b>W</b>	wall mount
	<b>S</b>	surface mount
	<b>JCOV-S</b>	conduit junction box cover with knockouts, surface
	<b>P<sup>1</sup></b>	pendant, 108" flexible cord
	<b>RP</b>	rigid pendant 4' stem with swivel stem/canopy
	<b>RP5</b>	rigid pendant 5' stem with swivel stem/canopy
	<b>RP6</b>	rigid pendant 6' stem with swivel stem/canopy
	<b>RP8</b>	rigid pendant 8' stem with swivel stem/canopy
	<b>RP10</b>	rigid pendant 10' stem with swivel stem/canopy
	<b>RPF2</b>	rigid pendant 2' with fixed stem/canopy
	<b>RPF3</b>	rigid pendant 3' with fixed stem/canopy
<b>RPF4</b>	rigid pendant 4' with fixed stem/canopy	
<b>RPF6</b>	rigid pendant 6' with fixed stem/canopy	
<b>JCOV-XX<sup>2</sup></b>	conduit junction box cover with knockouts, complete XX code with desired pendant mount	
<b>VOLTAGE</b>	<b>UNV</b>	120V-277V
<b>DIMMING</b>	<b>DIM10<sup>3</sup></b>	0-10V dimming to 1%
	<b>DMX<sup>4</sup></b>	DMX control dimming to 1%
	<b>CAS</b>	Casambi Bluetooth control with flicker free 1.0% dimming

## YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:
<b>BETA - 3Q - TW - 10LM - 2765 - 95 - HE65 - WH - WH - W - UNV - DIM10</b>

## NOTES

- Pendant mount only offered in CAS dimming option.
- JCOV not available in RP mounting.
- Requires 2 wall controllers (see wiring diagram).
- DMX dimming not available in P mounting.

\* EML = equivalent melanopic lux, to calculate EML, multiply the measured photopic lux by the EML Ratio for the given CCT. Example: 254 lux x 0.79 = 200 melanopic lux at 4000K.

\* Slim canopy with rigid stem connection shall be used in jurisdictions that DO NOT require light fixtures to freely swing in lateral directions, complying with local and national building codes.

\* RP mounting with swivel is recommended to be installed on a 4in square or 4in deep regress 2-1/8" octagonal junction box.

# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

NICHIA TUNABLE WHITE - ORDERING CODE													
<b>SERIES</b>	BETA BETA												
<b>TYPE</b>	3Q 3" square												
<b>LED</b>	TW tunable white (Nichia)												
<b>DELIVERED LUMENS</b>	10LM 1150 lm Standard Configuration: 3500K WH75 Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]												
<b>CCT</b>	2750 2700K to 5000K tunable white <table border="1"> <thead> <tr> <th>CCT</th> <th>2700K</th> <th>3000K</th> <th>3500K</th> <th>4000K</th> <th>5000K</th> </tr> </thead> <tbody> <tr> <td>EML RATIO</td> <td>0.21</td> <td>0.33</td> <td>0.45</td> <td>0.53</td> <td>0.59</td> </tr> </tbody> </table>	CCT	2700K	3000K	3500K	4000K	5000K	EML RATIO	0.21	0.33	0.45	0.53	0.59
CCT	2700K	3000K	3500K	4000K	5000K								
EML RATIO	0.21	0.33	0.45	0.53	0.59								
<b>CRI</b>	80 80 CRI												
<b>OPTIC &amp; LM MULTIPLIER</b> SEE PAGE 5	HE65 65° high efficiency diffused lens (0.95) HE80 80° high efficiency diffused lens (0.93) WH75 75° brilliant white with clear lens (0.99)												
<b>FINISH</b> SEE PAGE 4	BK black WH white MC matte chrome												
<b>BEZEL COLOR</b> SEE PAGE 4	BK black (0.98) WH white (1.00) MC matte chrome (0.99) BZ bronze (0.98) WT wheat (0.99)												

NICHIA TUNABLE WHITE - ORDERING CODE	
<b>MOUNTING OPTIONS</b> SEE PAGE 6	<b>W</b> wall mount
	<b>S</b> surface mount
	<b>JCOV-S</b> conduit junction box cover with knockouts, surface
	<b>P<sup>1</sup></b> pendant, 108" flexible cord
	<b>RP</b> rigid pendant 4' stem with swivel stem/canopy
	<b>RP5</b> rigid pendant 5' stem with swivel stem/canopy
	<b>RP6</b> rigid pendant 6' stem with swivel stem/canopy
	<b>RP8</b> rigid pendant 8' stem with swivel stem/canopy
	<b>RP10</b> rigid pendant 10' stem with swivel stem/canopy
	<b>RPF2</b> rigid pendant 2' with fixed stem/canopy
	<b>RPF3</b> rigid pendant 3' with fixed stem/canopy
<b>RPF4</b> rigid pendant 4' with fixed stem/canopy	
<b>RPF6</b> rigid pendant 6' with fixed stem/canopy	
<b>JCOV-XX<sup>2</sup></b> conduit junction box cover with knockouts, complete XX code with desired pendant mount	
<b>VOLTAGE</b>	UNV 120V-277V
<b>DIMMING</b>	<b>DIM10<sup>3</sup></b> 0-10V dimming to 1%
	<b>DMX<sup>4</sup></b> DMX control dimming to 1%
	<b>CAS</b> Casambi Bluetooth control with flicker free 1.0% dimming

YOUR COMPLETED ORDERING CODE
Follow the steps to specify your fixture, example:
<b>BETA - 3Q - TW - 10LM - 2750 - 80 - HE65 - WH - WH - W - UNV - DIM10</b>

## NOTES

- Pendant mount only offered in CAS dimming option.
- JCOV not available in RP mounting.
- Requires 2 wall controllers (see wiring diagram).
- DMX dimming not available in P mounting.

\*EML = equivalent melanopic lux, to calculate EML, multiply the measured photopic lux by the EML Ratio for the given CCT.

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# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## BEZEL OPTIONS

### BEZEL COLORS



## OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 10LM fixtures.

## LUMINUS



OPTIC	BEAM ANGLE	UGR
WH75	79	23.4



OPTIC	BEAM ANGLE	UGR
HE65	64	22.1
HE80	82	24.1

## NICHIA



OPTIC	BEAM ANGLE	UGR
WH75	80	24.6



OPTIC	BEAM ANGLE	UGR
HE65	64	23.2
HE80	82	25.4

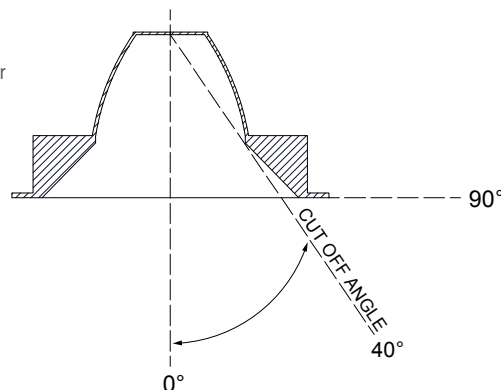
## GLARE CONTROL

### CUT-OFF ANGLE

Visual comfort is achieved with a lower cut-off angle due to improved glare control. The smaller the cut-off angle, the easier it is on the eye.

Alphabet downlights have been thoughtfully engineered to eliminate glare while still delivering functional illumination.

- Cutoff angle of NL and CL is 40°

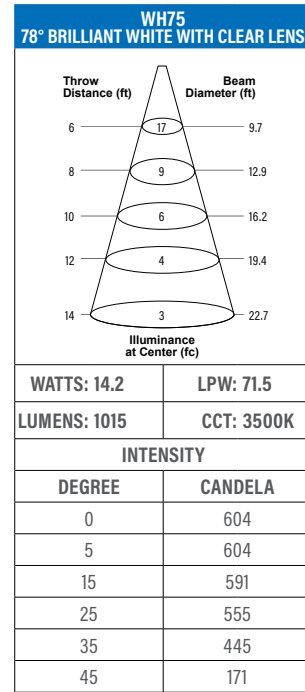
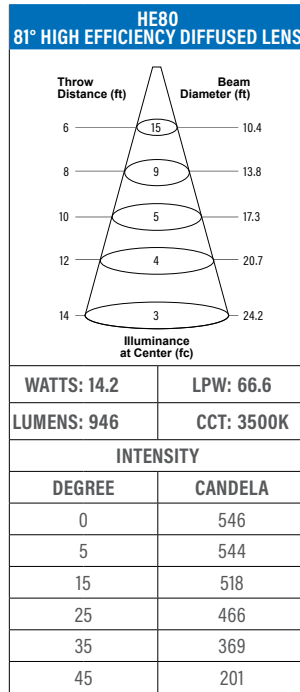
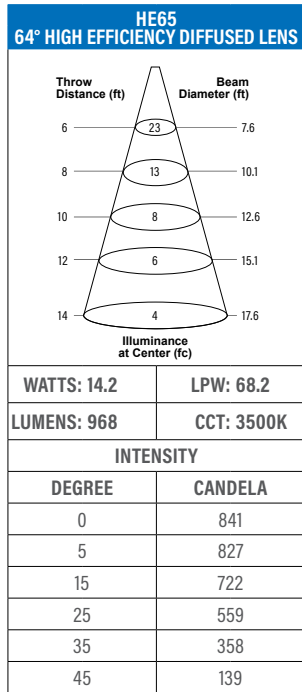


# alphabet

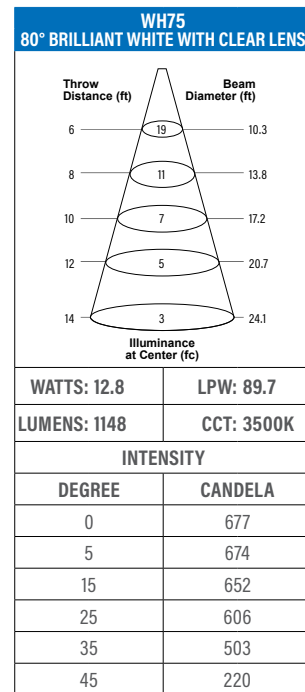
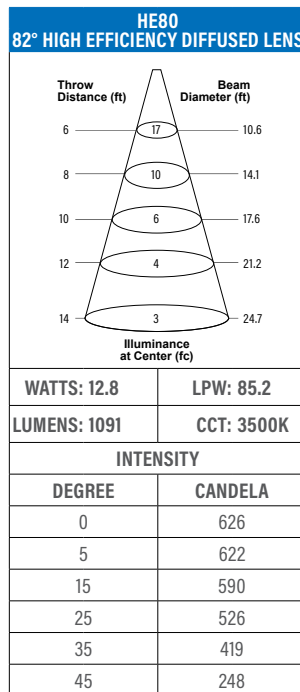
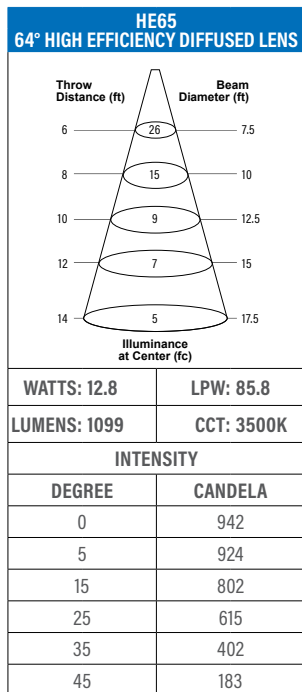
PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## PHOTOMETRIC DATA

### LUMINUS



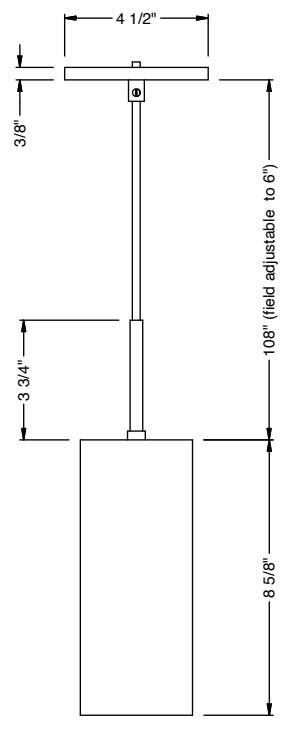
### NICHIA



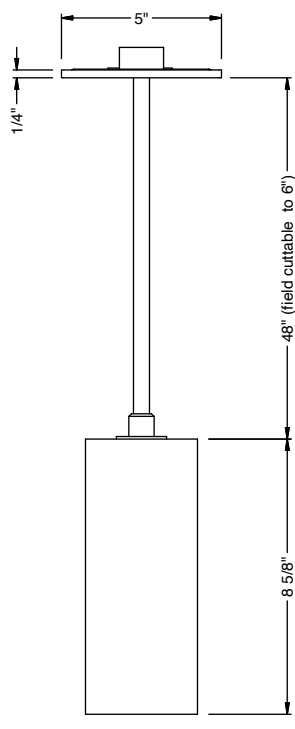
# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

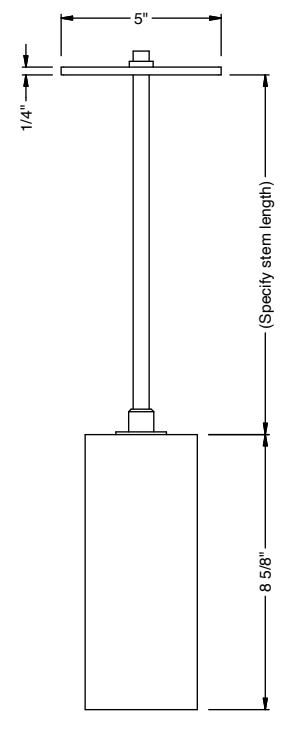
## MOUNTING OPTIONS



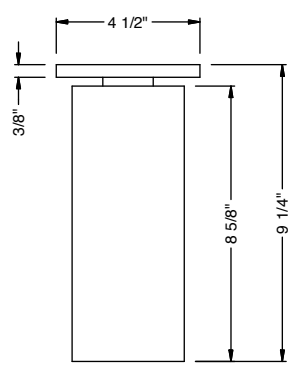
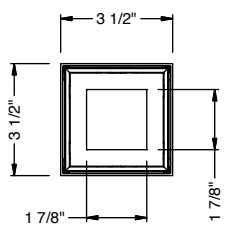
**PENDING CAS**



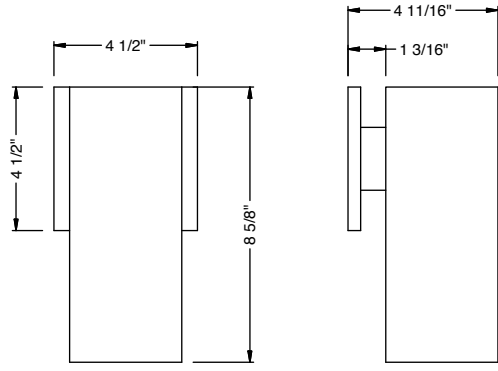
**RP SWIVEL  
DIM10 / DMX / CAS**



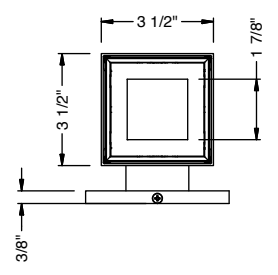
**RP FIXED  
DIM10 / DMX / CAS**



**SURFACE MOUNT  
DIM10 / DMX / CAS**



**WALL MOUNT  
DIM10 / DMX / CAS**

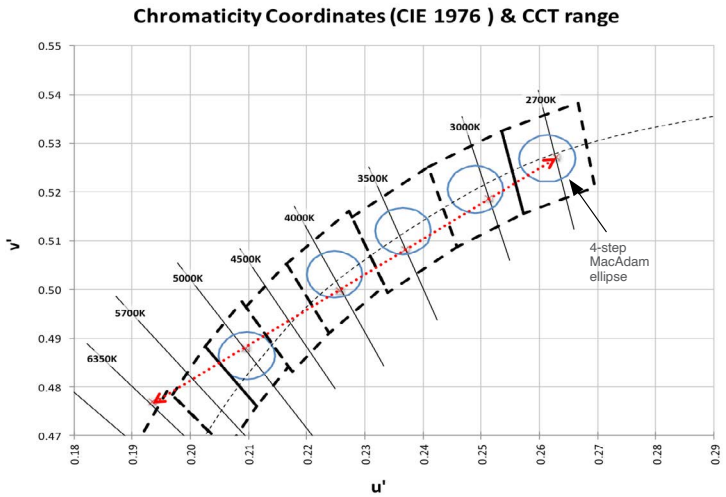


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PROJECT INFORMATION		
JOB NAME	TYPE	
ORDERING CODE		

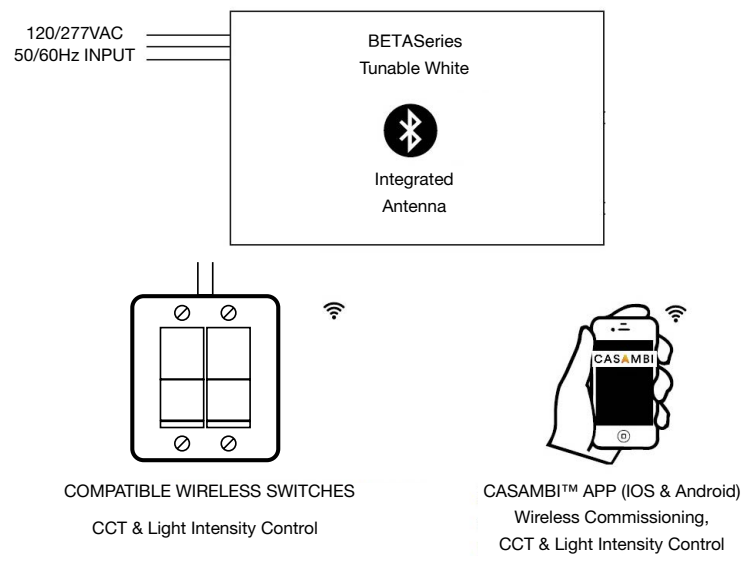
## TUNABLE WHITE

### LUMINUS 95CRI

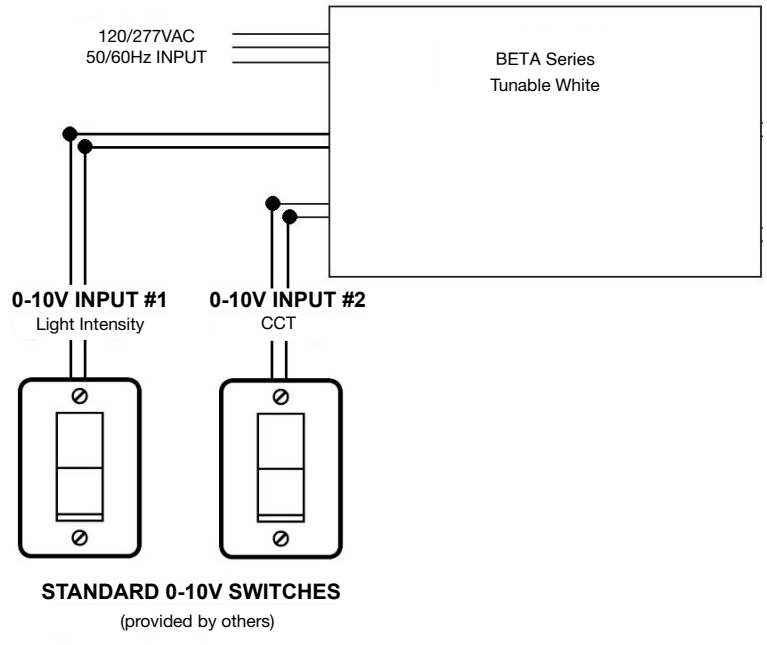


## WIRING DIAGRAMS

### “CAS” CASAMBI CONTROLS



### “DIM10” HARDWIRED 0-10V CONTROL



**NOTES**  
1 Consult factory to order compatible wireless switches.