# BETA



PROJECT INFORMATION PROJECT INFORMATION						
JOB NAME	TYPE					
ORDERING CODE						

(Note: Specifications are subject to change without notice)					
18mm LUMINUS COB PERFORMANCE DATA					
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE			
10LM	941LM @35K/95CRI	13W			
15LM	1341LM @35K/95CRI	18W			
20LM	1832LM @35K/95CRI	23W			
Notes	Delivered lumens based on HE60, 3500K (see page 2)				

35° - 85° BEAM

**ELUMINUS** 

eldoLED

**CAS** MBI

35° - 80° BEAM (Note: Specifications are subject to change without notice)					
18mm NIC	CHIA COB PERFORMANCE	DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE			
10LM	1050LM @35K/80CRI	12W			
15LM	1300LM @35K/80CRI	15W			
20LM	1600LM @35K/80CRI	18W			
25LM	2400LM @35K/80CRI	28W			
35LM	3200LM @35K/80CRI	41W			
Notes Delivered lumens based on HE50, 3500K (see page 2)					

#### **FEATURES**

- Seamless extrusion with powder coated finish for clean aesthetics
- Thermally optimized for longevity
- 35° 85° beam spread
- UGR < 19
- Multiple mounting, glare control options, trims and finishes available
- Micro slim canopy option at 1/4" depth, diameter of stem 3/8" IP

### LED

- Luminus tunable white COB: 95 CRI, R9 > 70: SDCM = 4-step MacAdam Ellipse; Lumen Maintenance: L<sub>70</sub>> 54,000 hrs
- Nichia tunable white COB: 80 CRI, R9 > 0: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L<sub>90</sub>> 33,000 hrs

#### **DIMMING AND CONTROLS**

- eldoLED flicker free 0-10V dimming to 0%
- eldoLED flicker free DALI dimming to 0%
- Casambi Bluetooth dimming to 0%

#### CONSTRUCTION

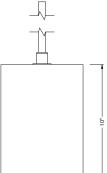
- Extruded aluminum housing
- Lexan™ (PC) Optimal connectivity for wireless control signal
- Machined aluminum canopy
- SVT pendant cord

#### **LISTING**

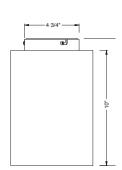
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- Suitable for dry and damp locations
- Made in the USA meets the requirements of the Buy American provision within the ARRA
- 5 Year Limited warranty

#### **ELECTRICAL**

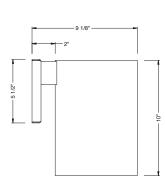
- 120V-277V
- Power factory ≥ 0.9
- 2kV driver input surge protection
- Battery Backup not offered. Emergency Generator/Inverter/ Controls-Override Device supplied by others.

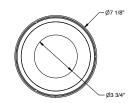


#### **SURFACE MOUNT**



#### **WALL MOUNT**







ORDERING CODE									
SERIES	BETA	BETA	u 00D	_					
TYPE	6R	6" round							
LED	TW	tunable whit	e (Lum	ninus)					
	10LM	941 lm							
	15LM	1341 lm							
DELIVERED	20LM	1832 lm							
LUMENS	Standard Co	nfiguration: 3500	K HE60						
	Calculated I Multiplier]	Delivered Lumens	= [Deliv	ered Lur	nen Valu	e] x [CC	Γ Multipli	ier] x [Re	eflector
	2765	2700K to 650	0K tun	able w	hite				
		ССТ	2700K	3000K	3500K	4000K	5000K	5700K	6500K
		CCT MULTIPLIER FOR LUMEN OUTPUT	0.91	0.98	1	0.99	1	1.01	1.02
CCT		EML RATIO	0.49	0.57	0.68	0.79	0.96	1.04	1.12
CCT	1840	1800K to 400	0K tun	able w	hite				
		ССТ	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
CRI	95	95 CRI max a	t 3500	K, 90 C	CRI at 6	500K			
	HE35	35° high efficiency diffused lens					(0.99)		
	HE60	60° high effic	ciency	diffuse	d lens				(1.00)
OPTIC &	HE85	85° high effic	ciency	diffuse	d lens				(88.0)
LM MULTIPLIER	D40	40° diffused with clear lens						(0.92)	
	D60	60° diffused with clear lens						(0.93)	
	WH80	80° brilliant v	white v	with cle	ear len	S			(0.96)
ACCESSORY	HCL <sup>1</sup>	honeycomb	ouver						
	BK	black							
FINISH	WH	white							
	MC	matte chrom	е						
	BK	black							(0.98)
	WH	white							(1.00)
BEZEL	MC	matte chrom	е						(0.99)
COLOR									
COLOR	BZ	bronze							(0.98)

PROJECT INFOR	PROJECT INFORMATION							
JOB NAME		TYPE						
ORDERING CODE								

		ORDERING CODE
	W	wall mount
	S	surface mount
	JCOV-S	conduit junction box cover with knockouts, surface
	AC6 <sup>3</sup>	aircraft cable canopy with power cord, 6ft
	AC8 <sup>3</sup>	aircraft cable canopy with power cord, 8ft
	AC10 <sup>3</sup>	aircraft cable canopy with power cord, 10ft
	AC12 <sup>3</sup>	aircraft cable canopy with power cord, 12ft
	RP	rigid pendant 4' stem with swivel stem/canopy
MOUNTING OPTIONS	RP5	rigid pendant 5' stem with swivel stem/canopy
SEE PAGE 9	RP6	rigid pendant 6' stem with swivel stem/canopy
	RP8	rigid pendant 8' stem with swivel stem/canopy
	RP10	rigid pendant 10' stem with swivel stem/canopy
	RPF2	rigid pendant 2' with fixed stem/canopy
	RPF3	rigid pendant 3' with fixed stem/canopy
	RPF4	rigid pendant 4' with fixed stem/canopy
	RPF6	rigid pendant 6' with fixed stem/canopy
	JCOV-XX <sup>2</sup>	conduit junction box cover with knockouts, complete XX code with desired pendant mount
VOLTAGE	120	120V
VULIAGE	UNV	120V-277V
	DIM10Z <sup>4</sup>	eldoLED flicker free 0-10V dimming to 0%
DIMMING	DALIZ	eldoLED flicker free DALI dimming to 0%
	CAS	Casambi Bluetooth control with flicker free 1% dimming

YOUR COMPLETED ORDERING CODE
Follow the steps to specify your fixture, example:
BETA - 6R - TW - 20LM - 2765 - 95 - HE60 - WH - WH - S - UNV - DIM10Z

#### NOTES

- 1. HCL not available with lens. Multiplier: Delivered Lumens (0.78) / Beam Spread (0.80).
- 2. JCOV available with RPF mounting.
- 3. AC mounting only available with casambi dimming control.
- 4. Requires 2 wall controllers (see wiring diagram).

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

<sup>\*</sup>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.

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

<sup>\*</sup>EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e., DIM10LIN.



		UNABLE WHI	TE - ORD	ERING C	ODE		
SERIES	BETA		BETA				
ТҮРЕ	6R	6" round					
LED	TW	tunable white	e (Nichia	)			
	13LM	1050 lm					
	15LM	1300 lm					
	20LM	1600 lm					
DELIVERED	25LM	2400 lm					
LUMENS	35LM	3200 lm					
	Standard Co	onfiguration: 3500	K HE50				
	Calculated I Multiplier]	Delivered Lumens	= [Delivere	ed Lumen V	alue] x [CCT	Multiplier]	x [Reflector
	2750	2700K to 500	0K tunab	le white			
сст		ССТ	2700K	3000K	3500K	4000K	5000K
CCI		CCT MULTIPLIER FOR LUMEN OUTPUT	0.85	0.88	0.95	1.01	1.02
		EML RATIO	0.53	0.59	0.67	0.73	0.8
CRI	80	80 CRI					
	HE35	35° high efficiency diffused lens					(0.99)
	HE50	50° high efficiency diffused lens					(1.00)
OPTIO 0	HE80	80° high efficiency diffused lens					(0.92)
OPTIC & LM Multiplier	SS20	20° semi-specular with clear lens					(0.91)
	SS30	30° semi-spe	30° semi-specular with clear lens				
	D50	50° diffused	with clea	r lens			(0.90)
	WH70	70° brilliant v	vhite wit	h clear le	ens		(0.96)
ACCESSORY	HCL <sup>1</sup>	honeycomb l	ouver				
	BK	black					
FINISH	WH	white	white				
	MC	matte chrome					
	BK	black					(0.98)
	WH	white					(1.00)
BEZEL COLOR	MC	matte chrom	е				(0.99)
COLON	BZ	bronze					(0.98)
	WT	wheat					(0.99)

PROJECT INFORMATION						
JOB NAME		TYPE				
ORDERING CODE						

	NICHIA T	UNABLE WHITE - ORDERING CODE
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	S	surface mount
	JCOV-S	conduit junction box cover with knockouts, surface
	AC6 <sup>3</sup>	aircraft cable canopy with power cord, 6ft
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	JCOV-XX <sup>2</sup>	conduit junction box cover with knockouts, complete XX code with desired pendant mount
VOLTACE	120	120V
VOLTAGE	UNV	120V-277V
	DIM10Z <sup>4</sup>	eldoLED flicker free 0-10V dimming to 0%
DIMMING	DALIZ	eldoLED flicker free DALI dimming to 0%
	CAS	Casambi Bluetooth control with flicker free 1% dimming

YOUR COMPLETED ORDERING CODE					
	4				
Follow the steps to specify your fixture, example:					
BETA - 6R - TW - 20LM - 2750 - 80 - HE80 - WH - WH - S - UNV - DIM10Z	1				

#### NOTES

- 1. HCL not available with lens. Multiplier: Delivered Lumens (0.78) / Beam Spread (0.80).
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- 4. Requires 2 wall controllers (see wiring diagram).

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

<sup>\*</sup>EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e., DIM10LIN.



PROJECT INFORMATION JOB NAME ORDERING CODE

### **TRIM OPTIONS**

#### TRIM/BEZEL COLORS





MC



BK



ΒZ



WT

## **LUMINUS OPTICAL OPTIONS**

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 15LM fixtures, unless otherwise noted.



OPTIC	BEAM ANGLE	UGR
D40	40	12.2
D60	58	15.6
WH80	78	19.3



OPTIC	BEAM ANGLE	UGR
HE35	36	16.6
HE60	59	18.7
HE85	8/1	21.3

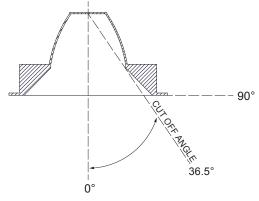
### **GLARE CONTROL**

#### **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 36.5 degrees;



Alphabet by Ledra Brands, Inc. | 88 Maxwell Irvine, CA 92618 | PH: 714.259,9959 FAX: 714.259,9969 | AlphabetLighting.com



PROJECT INFORMATION JOB NAME ORDERING CODE

### **TRIM OPTIONS**

#### TRIM/BEZEL COLORS





MC



BK



ΒZ



WT

### **NICHIA OPTICAL OPTIONS**

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 15LM fixtures, unless otherwise noted.



OPTIC	BEAM ANGLE	UGR
SS20	22	11
SS30	30	14.1
D50	50	15.5
WH70	73	18.7



OPTIC	BEAM ANGLE	UGR
HE35	37	15.3
HE50	52	17.9
HERN	77	20.7

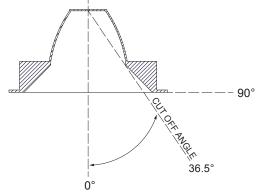
### **GLARE CONTROL**

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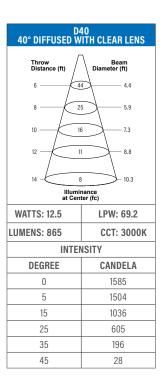
Alphabet by Ledra Brands, Inc. | 88 Maxwell Irvine, CA 92618 | PH: 714.259,9959 FAX: 714.259,9969 | AlphabetLighting.com

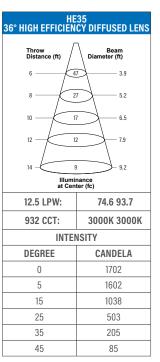


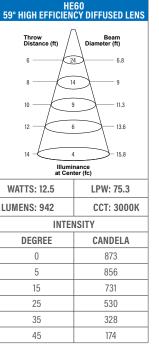
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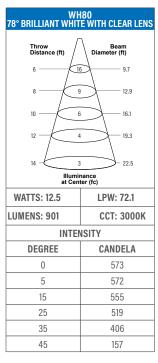
#### **LUMINUS PHOTOMETRIC DATA**

10LM CCT MULTIPLIERS			
	80CRI	90CRI	
2700K	0.96	0.81	
3000K	1	0.85	
3500K	1.03	0.88	
4000K	1.06	0.91	
FC Formula = CBCP / Distance <sup>2</sup>			

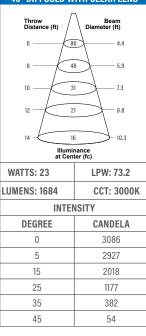


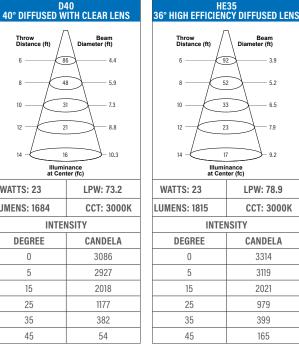


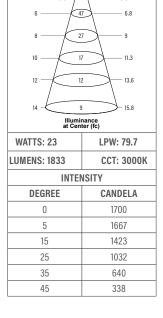




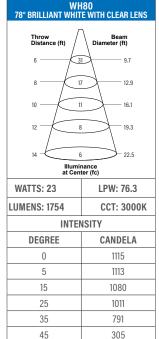
20LM CCT MULTIPLIERS			
	80CRI	90CRI	
2700K	0.96	0.81	
3000K	1	0.85	
3500K	1.03	0.88	
4000K	1.06	0.91	
FC Formula = CBCP / Distance <sup>2</sup>			







HE60 59° HIGH EFFICIENCY DIFFUSED LENS

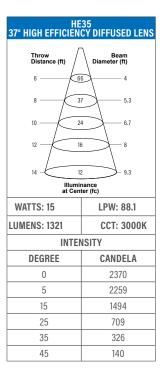


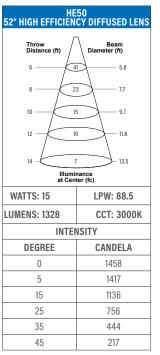


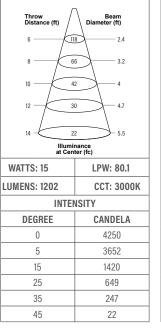
### **NICHIA PHOTOMETRIC DATA**

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

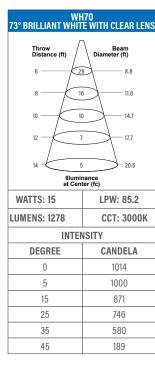
#### **15LM CCT MULTIPLIERS** 80CRI 90CRI 2700K 0.96 0.81 3000K 0.85 3500K 1.03 0.88 4000K 1.06 0.91 FC Formula = CBCP / Distance



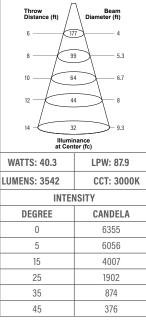


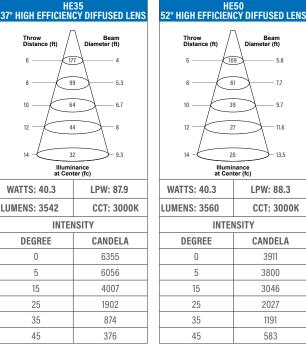


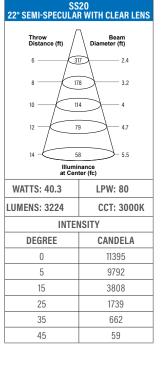
SS20 22° SEMI-SPECULAR WITH CLEAR LENS

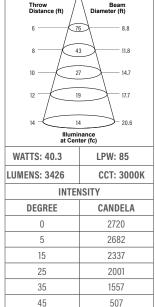


35LMCCT MULTIPLIERS			
	80CRI	90CRI	
2700K	0.96	0.81	
3000K	1	0.85	
3500K	1.03	0.88	
4000K	1.06	0.91	
FC Formula = CBCP / Distance <sup>2</sup>			









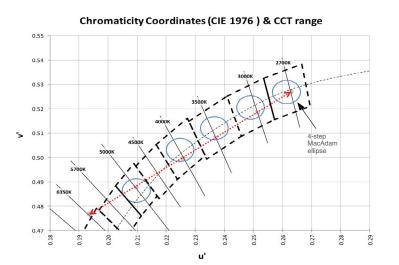
WH70 73° BRILLIANT WHITE WITH CLEAR LENS



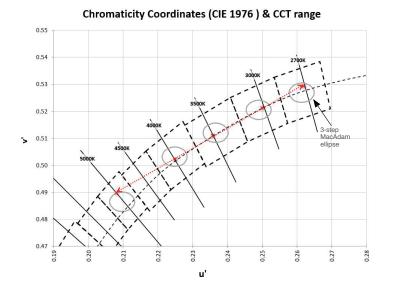
PROJECT INFORMATION JOB NAME ORDERING CODE

### **TUNABLE WHITE**

#### **LUMINUS 95CRI**

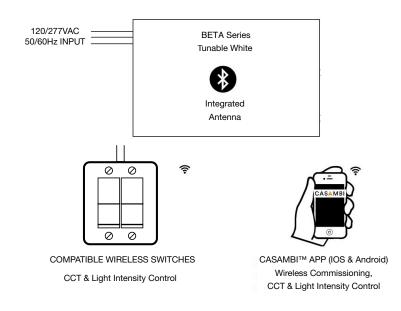


#### **NICHIA 80CRI**

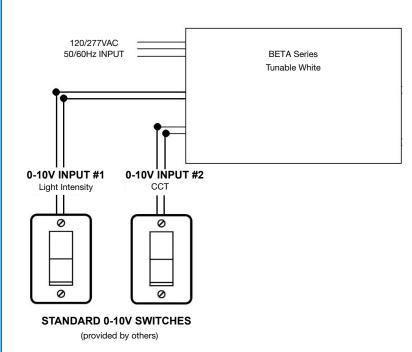


#### **WIRING DIAGRAMS**

#### "CAS" CASAMBI CONTROLS



#### "DIM10Z" HARDWIRED 0-10V CONTROL



1 Consult factory to order compatible wireless switches.

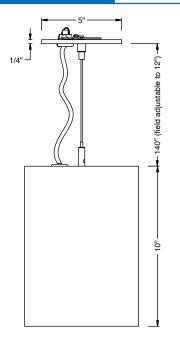


PROJECT INFORMATION

JOB NAME TYPE

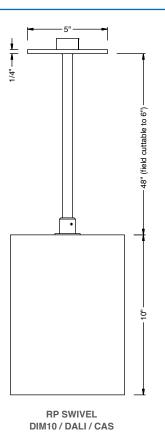
ORDERING CODE

### **MOUNTING OPTIONS**



PENDANT

CAS



 H
 RP
 48-3/8" (field adjustable to 6")

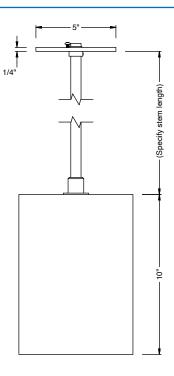
 RP5
 60-3/8" (field adjustable to 6")

 RP6
 72-3/8" (field adjustable to 6")

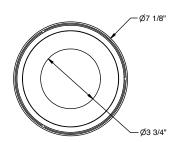
 RP8
 96-3/8" (field adjustable to 54")

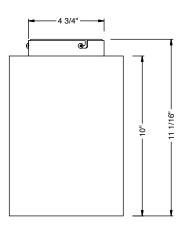
 RP10
 120-3/8" (field adjustable to 66")



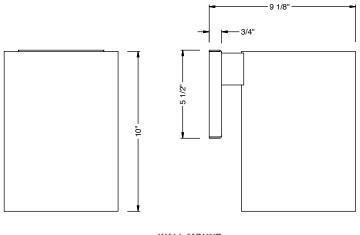


RP FIXED DIM10 / DALI / CAS









WALL MOUNT DIM10 / DALI / DMX

