

# ECOL3A

3 1/2" ECO Series

## Adjustable Trim

Project

Notes

Fixture Type

Date

### SPECIFICATIONS

**LED**

2,700 K 6W or 10W

3,000 K 6W or 10W

**CERTIFICATION**

cULus certified for damp location

**BEAM****M** = Narrow Flood → 30° to 35°**W** = Wide Flood → 54° to 61°**COMPATIBLE HOUSINGS****Remodel Housing:**  
ECOREL300U**New Construction Housing:**  
ECONWL300U**Insulated Housing:**  
ECOISL300U**CRI**

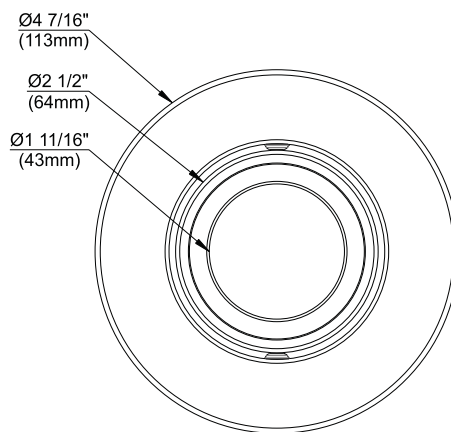
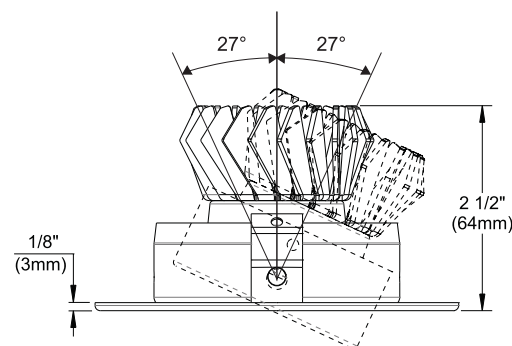
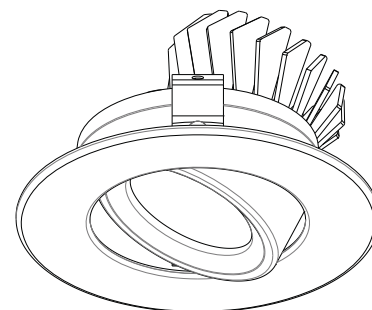
80 +

**POWER SUPPLY**

Fulham Driver, constant current output, 10W output wattage, 120V. THD less than 10%

**CHIP**Bridgelux LED arrays. Delivers a lumen maintenance greater than 70% after 50,000 hours of operation ( $L_{70}$ ). Provide a clean white light without pixilation and produces high quality true color. Inside 7 steps MacAdam ellipse.**LPW****6W** : 368 lumens, 61 lm/w**10W** : 573 lumens, 57 lm/w**TO BE SPECIFIED PER  
SITE CONDITION**

## FIXTURE A



# ECOL3A

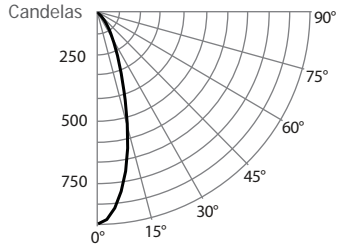
**3 1/2" ECO Series**

Project \_\_\_\_\_

Notes \_\_\_\_\_

Fixture Type \_\_\_\_\_

Date \_\_\_\_\_

**PHOTOMETRIC DATA - POWER 1****2M1: ECOLED Power 1, Medium Beam, 2,700 K****CANDLEPOWER DISTRIBUTION****CONE OF LIGHT**

Distance	FC	DIA
06'	22,3	3,4'
08'	12,5	4,6'
10'	8,0	5,7'
12'	5,6	6,9'
14'	4,1	8,0'
16'	3,1	9,2'
18'	2,5	10,3'
20'	2,0	11,5'

**Beam: 32°**  
Beam Edge defined as 50% of Maximum Nadir Candlepower

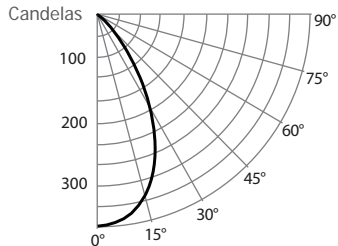
**LUMINAIRE**

<b>ECOLED Power 1</b>	2,700 K Medium Beam
<b>Equivalent Bulbs</b>	20W MR16 /35WPAR20
<b>CBCP / Lumens</b>	801 / 347
<b>Watts</b>	120V 6W
<b>Operating AMPS</b>	0.072A
<b>Lumen Maintenance</b>	L70 @ 50.000 Hrs
<b>CRI</b>	+ de 80
<b>Lumen/Watt</b>	58
<b>Spacing Criteria</b>	0.5
<b>Certificate LM-79-08</b>	109734

**COEFFICIENT OF UTILIZATION - %**

Ceiling Reflect %	80		50		30	
Wall Reflect %	50	30	50	30	50	30
RCR	0	119	119	111	111	106
	2	107	103	101	99	97
	4	97	93	94	91	92
	6	89	84	87	83	85
	8	81	77	80	76	79
	10	75	70	74	70	73

**Zonal Cavity Method Effective Floor**  
Cavity Reflectance 20%

**2W1: ECOLED Power 1, Wide Beam, 2,700 K****CANDLEPOWER DISTRIBUTION****CONE OF LIGHT**

Distance	FC	DIA
06'	9,5	7,1'
08'	5,3	9,4'
10'	3,4	11,8'
12'	2,4	14,2'
14'	1,7	16,5'
16'	1,3	18,9'
18'	1,1	21,3'
20'	0,9	23,6'

**Beam: 61°**  
Beam Edge defined as 50% of Maximum Nadir Candlepower

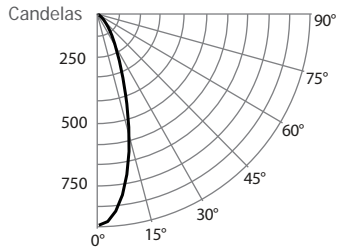
**LUMINAIRE**

<b>ECOLED Power 1</b>	2,700 K Wide Beam
<b>Equivalent Bulbs</b>	20W MR16 /35WPAR20
<b>CBCP / Lumens</b>	342 / 343
<b>Watts</b>	120V 6W
<b>Operating AMPS</b>	0.072A
<b>Lumen Maintenance</b>	L70 @ 50.000 Hrs
<b>CRI</b>	+ de 80
<b>Lumen/Watt</b>	57
<b>Spacing Criteria</b>	0.9
<b>Certificate LM-79-08</b>	109736

**COEFFICIENT OF UTILIZATION - %**

Ceiling Reflect %	80		50		30		
Wall Reflect %	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106
	2	105	101	100	97	97	95
	4	93	88	90	86	88	84
	6	82	77	80	76	79	75
	8	73	67	71	66	70	66
	10	64	59	63	58	63	58

**Zonal Cavity Method Effective Floor**  
Cavity Reflectance 20%

**3M1: ECOLED Power 1, Medium Beam, 3,000 K****CANDLEPOWER DISTRIBUTION****CONE OF LIGHT**

Distance	FC	DIA
06'	23,5	3,5'
08'	13,2	4,7'
10'	8,5	5,8'
12'	5,9	7,0'
14'	4,3	8,2'
16'	3,3	9,3'
18'	2,6	10,5'
20'	2,1	11,6'

**Beam: 32°**  
Beam Edge defined as 50% of Maximum Nadir Candlepower

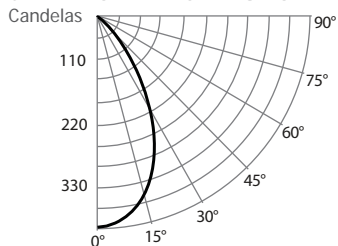
**LUMINAIRE**

<b>ECOLED Power 1</b>	3,000 K Medium Beam
<b>Equivalent Bulbs</b>	20W MR16 / 35WPAR20
<b>CBCP / Lumens</b>	847 / 368
<b>Watts</b>	120V 6W
<b>Operating AMPS</b>	0.073A
<b>Lumen Maintenance</b>	L70 @ 50.000 Hrs
<b>CRI</b>	+ de 80
<b>Lumen/Watt</b>	61
<b>Spacing Criteria</b>	0.5
<b>Certificate LM-79-08</b>	109726

**COEFFICIENT OF UTILIZATION - %**

Ceiling Reflect %	80		50		30		
Wall Reflect %	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106
	2	107	104	102	100	99	97
	4	97	93	94	91	93	90
	6	89	85	87	84	86	83
	8	82	77	80	77	80	76
	10	76	71	74	70	74	70

**Zonal Cavity Method Effective Floor**  
Cavity Reflectance 20%

**3W1: ECOLED Power 1, Wide Beam, 3,000 K****CANDLEPOWER DISTRIBUTION****CONE OF LIGHT**

Distance	FC	DIA
06'	10,1	3,2'
08'	5,7	4,3'
10'	3,6	5,4'
12'	2,5	6,4'
14'	1,8	7,5'
16'	1,4	8,6'
18'	1,1	9,6'
20'	0,9	10,7'

**Beam: 59°**  
Beam Edge defined as 50% of Maximum Nadir Candlepower

**LUMINAIRE**

<b>ECOLED Power 1</b>	3,000 K Wide Beam
<b>Equivalent Bulbs</b>	20W MR16 / 35WPAR20
<b>CBCP / Lumens</b>	362 / 359
<b>Watts</b>	120V 6W
<b>Operating AMPS</b>	0.073A
<b>Lumen Maintenance</b>	L70 @ 50.000 Hrs
<b>CRI</b>	+ de 80
<b>Lumen/Watt</b>	60
<b>Spacing Criteria</b>	0.9
<b>Certificate LM-79-08</b>	109728

**COEFFICIENT OF UTILIZATION - %**

Ceiling Reflect %	80		50		30		
Wall Reflect %	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106
	2	105	101	100	97	97	95
	4	93	88	90	86	88	84
	6	82	77	80	75	79	75
	8	73	67	71	66	70	65
	10	64	59	63	58	62	58

**Zonal Cavity Method Effective Floor**  
Cavity Reflectance 20%



# ECOL3A

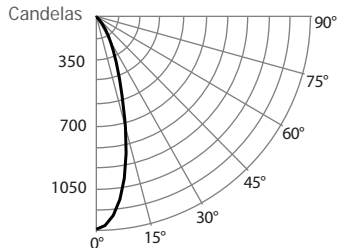
**3 1/2" ECO Series**

Project \_\_\_\_\_

Notes \_\_\_\_\_

Fixture Type \_\_\_\_\_

Date \_\_\_\_\_

**PHOTOMETRIC DATA - POWER 2****2M2: ECOLED Power 2, Medium Beam, 2,700 K****CANDLEPOWER DISTRIBUTION****CONE OF LIGHT**

Distance	FC	DIA
06'	33,2	3,4'
08'	18,7	4,6'
10'	12,0	5,7'
12'	8,3	6,8'
14'	6,1	8,0'
16'	4,7	9,1'
18'	3,7	10,2'
20'	3,0	11,4'

**Beam: 32°**  
Beam Edge defined as 50% of Maximum Nadir Candlepower

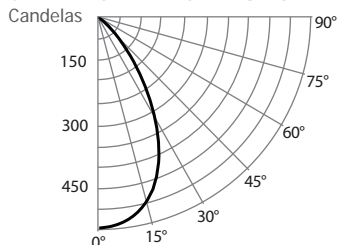
**LUMINAIRE**

<b>ECOLED Power 2</b>	2,700 K Medium Beam
<b>Equivalent Bulbs</b>	35W MR16 / 50WPAR20
<b>CBCP / Lumens</b>	1196 / 509
<b>Watts</b>	120V 10W
<b>Operating AMPS</b>	0.1030A
<b>Lumen Maintenance</b>	L70 @ 50.000 Hrs
<b>CRI</b>	+ de 80
<b>Lumen/Watt</b>	51
<b>Spacing Criteria</b>	0.5
<b>Certificate LM-79-08</b>	109735

**COEFFICIENT OF UTILIZATION - %**

Ceiling Reflect %	80		50		30		
Wall Reflect %	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106
	2	107	104	102	100	99	97
	4	97	93	94	91	92	90
	6	89	85	87	84	86	83
	8	82	77	80	76	80	76
	10	76	71	74	70	74	70

**Zonal Cavity Method Effective Floor**  
Cavity Reflectance 20%

**2W2: ECOLED Power 2, Wide Beam, 2,700 K****CANDLEPOWER DISTRIBUTION****CONE OF LIGHT**

Distance	FC	DIA
06'	13,8	7,1'
08'	7,8	9,5'
10'	5,0	11,9'
12'	3,5	14,3'
14'	2,5	16,6'
16'	1,9	19,0'
18'	1,5	21,4'
20'	1,2	23,8'

**Beam: 61°**  
Beam Edge defined as 50% of Maximum Nadir Candlepower

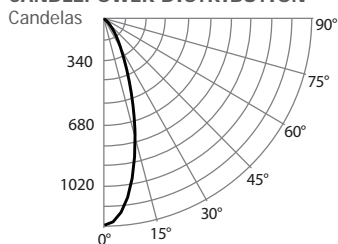
**LUMINAIRE**

<b>ECOLED Power 2</b>	2,700 K Wide Beam
<b>Equivalent Bulbs</b>	35W MR16 / 50WPAR20
<b>CBCP / Lumens</b>	498 / 511
<b>Watts</b>	120V 10W
<b>Operating AMPS</b>	0.1066A
<b>Lumen Maintenance</b>	L70 @ 50.000 Hrs
<b>CRI</b>	+ de 80
<b>Lumen/Watt</b>	51
<b>Spacing Criteria</b>	0.9
<b>Certificate LM-79-08</b>	109737

**COEFFICIENT OF UTILIZATION - %**

Ceiling Reflect %	80		50		30		
Wall Reflect %	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106
	2	105	101	99	97	97	95
	4	92	87	89	85	87	84
	6	82	76	80	75	78	74
	8	72	67	71	66	70	65
	10	64	58	63	58	62	57

**Zonal Cavity Method Effective Floor**  
Cavity Reflectance 20%

**3M2: ECOLED Power 2, Medium Beam, 3,000 K****CANDLEPOWER DISTRIBUTION****CONE OF LIGHT**

Distance	FC	DIA
06'	33,6	3,7'
08'	18,9	4,9'
10'	12,1	6,1'
12'	8,4	7,3'
14'	6,2	8,6'
16'	4,7	9,8'
18'	3,7	11,0'
20'	3,0	12,2'

**Beam: 34°**  
Beam Edge defined as 50% of Maximum Nadir Candlepower

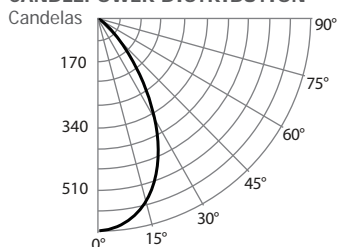
**LUMINAIRE**

<b>ECOLED Power 2</b>	3,000 K Medium Beam
<b>Equivalent Bulbs</b>	35W MR16 / 50WPAR20
<b>CBCP / Lumens</b>	1208 / 565
<b>Watts</b>	120V 10W
<b>Operating AMPS</b>	0.1078A
<b>Lumen Maintenance</b>	L70 @ 50.000 Hrs
<b>CRI</b>	+ de 80
<b>Lumen/Watt</b>	57
<b>Spacing Criteria</b>	0.6
<b>Certificate LM-79-08</b>	109727

**COEFFICIENT OF UTILIZATION - %**

Ceiling Reflect %	80		50		30		
Wall Reflect %	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106
	2	107	104	102	99	99	97
	4	97	93	94	91	92	89
	6	89	84	87	83	85	82
	8	81	77	80	76	79	75
	10	75	70	73	69	73	69

**Zonal Cavity Method Effective Floor**  
Cavity Reflectance 20%

**3W2: ECOLED Power 2, Wide Beam, 3,000 K****CANDLEPOWER DISTRIBUTION****CONE OF LIGHT**

Distance	FC	DIA
06'	15,8	7,1'
08'	8,9	9,5'
10'	5,7	11,8'
12'	3,9	14,2'
14'	2,9	16,5'
16'	2,2	18,9'
18'	1,8	21,3'
20'	1,4	23,6'

**Beam: 61°**  
Beam Edge defined as 50% of Maximum Nadir Candlepower

**LUMINAIRE**

<b>ECOLED Power 2</b>	3,000 K Wide Beam
<b>Equivalent Bulbs</b>	35W MR16 / 50WPAR20
<b>CBCP / Lumens</b>	568 / 573
<b>Watts</b>	120V 10W
<b>Operating AMPS</b>	0.1083A
<b>Lumen Maintenance</b>	L70 @ 50.000 Hrs
<b>CRI</b>	+ de 80
<b>Lumen/Watt</b>	57
<b>Spacing Criteria</b>	0.9
<b>Certificate LM-79-08</b>	109731

**COEFFICIENT OF UTILIZATION - %**

Ceiling Reflect %	80		50		30		
Wall Reflect %	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106
	2	105	101	99	97	97	95
	4	93	88	89	85	87	84
	6	82	77	80	75	78	75
	8	72	67	71	66	70	65
	10	64	58	63	58	62	58

**Zonal Cavity Method Effective Floor**  
Cavity Reflectance 20%

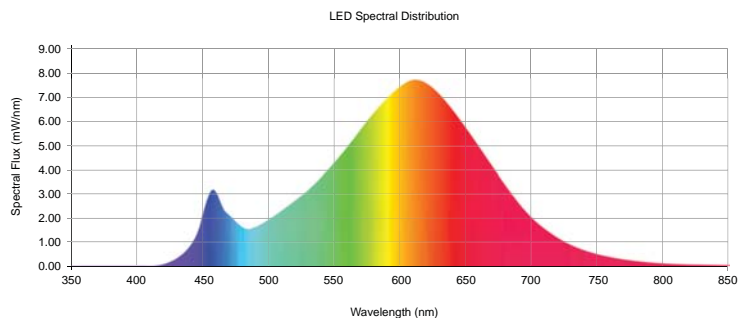


# ECOL3A

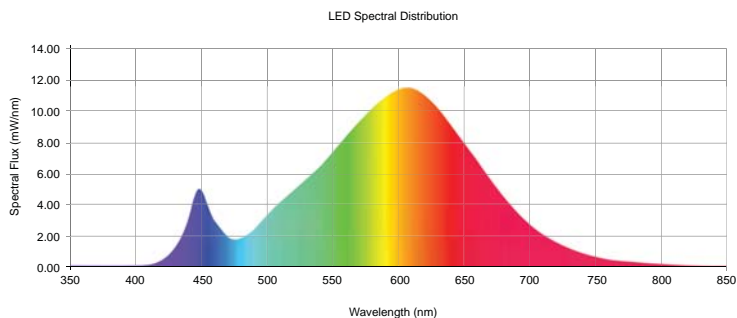
### 3 1/2" ECO Series

## LED SPECTRAL DISTRIBUTION AND CHROMATICITY DIAGRAM

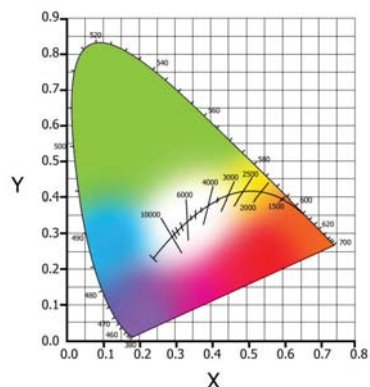
6W



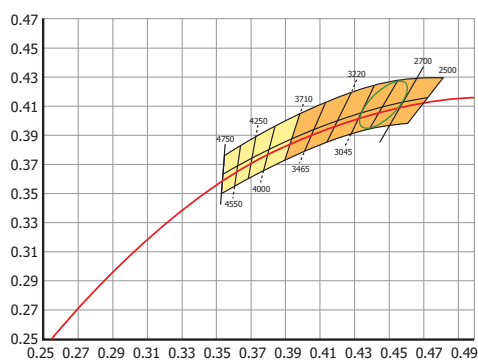
10W



### Color Binning Information



Chromaticity Diagram CIE 1931



Binning within 7-step ANSI MacAdam ellipses.

## ORDERING CODE

**ECOL3A-012M1**

MODEL	FINISHES		MARINE GRADE		COLOR TEMPERATURE		BEAM		POWER	
ECOL3A										
	-01	White	MG	May be applied on finishes: -01, -11 et -15	2	2,700 K	M	Narrow Flood (30° to 35°)	1	6W
	-04BR	Brushed Chrome			3	3,000 K	W	Wide Flood (54° to 61°)	2	10W
	-11	Matte White								
	-12BR	Brushed Nickel								
-15	Metallic Grey									

