### DESCRIPTION

Cambria 230 is a small, low voltage dimmable LED and halogen MR16 luminaire. It features an integral mounting spike for easy installation of simple directional uplight. Various lenses, louvers and color or dichroic filters can be combined - up to three at once - to create multiple lighting effects. The Lumiere exclusive Siphon Protection System (S.PS.) prevents water from siphoning into the fixture through its own lead wires.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

## **SPECIFICATION FEATURES**

#### Material

Housing and hood are precisionmachined from corrosionresistant billet stock 6061-T6 aluminum, C360 brass, C932 bronze\*, C110 copper or 303/304 stainless steel.

#### **Finish**

Fixtures constructed from 6061-T6 aluminum are double protected by an ROHS\* compliant chemical film undercoating and polyester powdercoat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available. Brass, Bronze\*, Copper or Stainless Steel Fixtures are left unpainted to reveal the natural beauty of the material. Brass, bronze\* and copper will patina naturally over time.

## Hood

Hood is removable for easy relamping and accepts up to three internal accessories at once (lenses, louvers, filters) to achieve multiple lighting effects. Weep holes prevent water and mineral stains from collecting on the lens, even in the straight-up position.

#### Gasket

Housing and hood are sealed with a high temperature silicone o-ring gasket to prevent water intrusion.

#### l ens

Tempered glass lens, factory sealed with high temperature adhesive to prevent water intrusion and breakage due to thermal shock.

# φ2.25" [114mm] • 4.5" [114mm] 11.25" [286mm]

## **Mounting Spike**

Cast zinc mounting spike is provided (model GS01). It is sealed around the lead wires for rigidity and a watertight seal.

#### Hardware

Stainless steel hardware is standard to provide maximum corrosion-resistance.

#### Socke

Ceramic socket with 250° CTeflon® coated lead wires and GU5.3 bi-pin base.

#### Electrical

Remote 12V transformer required (not included). NOTE: initial power draw on LED equipped fixtures is 15 watts. When sizing transformer use 15 watts per LED fixture. Nominal power draw after start up is 6 watts or 10 watts accordingly. Also, LEDs are more voltage sensitive than standard halogen MR16 lamps. The LED module is designed to operate between 10 and 13 volts. Any less or more voltage can cause premature failures.

## Lamp

Halogen lamp not included. LED modules are included and are available in four color temperatures (2700, 3000, 4000, and 5700) and three distributions (spot, narrow, and flood). Both color temperature and distribution must be specified when ordering. Soraa lamp compatible (10W Max).

# Warranty

Lumière warrants its fixtures against defects in materials & workmanship for three (3) years. Auxiliary equipment such as transformers, ballasts and lamps carry the original manufacturer's warranty.



Lumière

**230** CAMBRIA

**HALOGEN** 

APPLICATIONS: ACCENT / FLOOD



## CERTIFICATION DATA

UL and cUL Wet Location Listed LM79 / LM80 Compliant ROHS\* Compliant IP66 Ingressed Protection Rated

# TECHNICAL DATA

6W LED, L70/60,000 hours at 25°C 10W LED, L70/60,000 hoursat 25°C Low Voltage: 50W Halogen MR16

# ORDERING INFORMATION

Sample Number: 230-6LED2721-12-CS

Series	(for LED, sele	Source (for LED, select from each column and combine)		Voltage		Finish
2130=LED or MR16 Cambria Uplight w/ Integral Ground Spike	50MR16=50W Max Halogen MR16, GU5.3 Base		J5.3 Base	<b>12</b> =12V	Painted BK=Black	Premium Finish NBR=Natural Brass
	6LED=6W LED 10LED=10W LED	<b>27</b> =2700K <b>30</b> =3000K <b>40</b> =4000K <b>57</b> =5700K	<b>30</b> =3000K <b>21</b> =21° Narrow <b>41</b> =41° Wide		BZ=Bronze CS=City Silver VE=Verde WT=White	NCP=Natural Copper NBZ=Natural Bronze* NSS=Natural Stainless Steel
	4LED=4W LED 7LED=7W LED	<b>AM</b> =Amber (585-595nm)				

<sup>\*</sup>For natural bronze ROHS material consult factory.

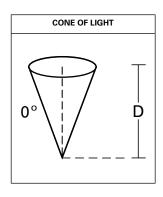


## **OPTICAL ACCESSORIES - ORDER SEPARATELY**

Filters (2.00" Diameter)	Optical Lenses (2.00" Diameter)	Optical Louvers (2.00" Diameter)
F71 = Peach Dichroic F72 = Amber Dichroic	LSL=Linear Spread Lens	LVR=45° Hex Cell Louver
F73 = Green Dichroic	(elongates standard beam spread)	(reduces glare)
F74 = Medium Blue	DIF=Diffused Lens	
F75 = Yellow Dichroic	(provides even illumination)	
F76 = Red Dichroic	OSL=Overall Spread Lens	
F77 = Dark Blue Dichroic	(increases standard beam	
F78 = Light Blue Dichroic	spread)	
F79 = Neutral Density Dichroic		
F80 = Magenta Dichroic		
F22 = Red Color		
F33 = Blue Color		
F44 = Green Color		
F55 = Yellow Color		
F66 = Mercury Vapor		

# **CAMBRIA 230 MR16 HALOGEN PHOTOMETRY DATA**

# Horizontal Illuminance on Surface - Cambria 230 Standard Recessed Hood - 50W MR16



Filename	230-50N	230-50MR16-12-BK-NSP.ies			
Lamp	50W MR16 NSP				
СВСР	11,000	11,000			
D	FC	Beam Diameter			
2'	2550	1'6"			
4'	638	1'0"			
6'	283	1'6"			
8'	159	2'0"			
10'	102	3'0"			
15'	45	4'0"			

Filename	230-50MR16-12-BK-NFL.ies				
Lamp	50W MF	50W MR16 NFL			
СВСР	3,200				
D	FC	Beam Diameter			
2'	725	1'0"			
4'	181	2'6"			
6'	81	4'0"			
8'	45	5'0"			
10'	29	6'6"			
15'	13	10'0"			

# CCT MULTIPLIER TABLE

LAMP WATTAGE	MULTIPLIER
20W	0.32
35W	0.57

Filename	230-50MR16-12-BK-FL.ies			
Lamp	50W MR16 FL			
СВСР	2,000			
D	FC	Beam Diameter		
2'	431	1'6"		
4'	106 3'0"			
6'	48	5'0"		
8'	27	6'6"		
10'	17	8'0"		
15'	7	12'0"		

Filename	230-50MR16-12-BK-WFL.ies			
Lamp	50W MF	R16 WFL		
СВСР	1,200			
D	FC	Beam Diameter		
2'	269	2'0"		
4'	67	4'6"		
6'	30	7'6"		
8'	17	9'0"		
10'	11	11'6"		
15'	5	17'0"		

# NOTES AND FORMULAS

- Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.
- Footcandle values are initial. Apply appropriate light loss factors where necessary.

  Bare lamp data shown. Consult lamp manufacturers to obtain detailed specifications for their lamps.

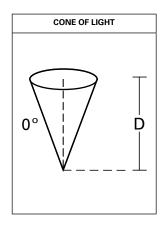


Specifications and dimensions subject to change without notice.

## LED Lumen and CBCP Table - 4000K

			4000	K CCT - S	tandard Ho	od		4000K CCT - Flush Hood (FL option)					
OPTIC TYPE (beam spread)	BASE + ACCESSORY OPTIONS		10W			6W			10W			6W	
		CBCP	LUMENS	LPW	CBCP	LUMENS	LPW	CBCP	LUMENS	LPW	CBCP	LUMENS	LPW
	BASE	7931	419	45	5948	314	53	8049	418	44	6037	314	53
	+ DIF (DIFFUSE)	1178	289	31	884	217	37	1188	336	36	891	252	43
12′	+ OSL (OVERALL SPREAD LENS)	820	350	38	615	263	45	886	368	40	665	276	47
	+ LSL (LINEAR SPREAD LENS)	NA	343	36	NA	257	44	NA	378	41	NA	284	48
	+ LVR (HEXCELL LOUVER)	7165	339	36	5374	254	43	6799	332	35	5099	249	42
	BASE	2194	344	37	1646	258	44	2129	370	40	1597	278	47
	+ DIF (DIFFUSE)	683	241	26	512	181	31	648	300	33	486	225	38
21′	+ OSL (OVERALL SPREAD LENS)	595	290	32	446	218	37	596	337	37	447	253	43
	+ LSL (LINEAR SPREAD LENS)	NA	282	31	NA	212	36	NA	329	36	NA	247	42
	+ LVR (HEXCELL LOUVER)	2030	249	27	1523	187	32	2007	268	29	1505	201	34
	BASE	1173	304	33	880	228	39	1169	361	39	877	271	46
	+ DIF (DIFFUSE)	418	205	22	314	154	26	410	278	30	308	209	36
41′	+ OSL (OVERALL SPREAD LENS)	595	250	27	446	188	32	509	318	35	382	239	41
	+ LSL (LINEAR SPREAD LENS)	NA	245	27	NA	184	31	NA	315	34	NA	236	40
	+ LVR (HEXCELL LOUVER)	1078	195	21	809	146	25	1004	213	23	753	160	27

## Horizontal Illuminance on Surface - Cambria 230 Standard Recessed Hood -4000K



Filename: 230-10LED4012-12-BK.IES						
Test No.: P184449						
Distance	FC	Beam Diameter				
2'	1912.8	0.4'				
4'	478.2	0.8′				
6'	212.5	1.2′				
8'	119.5	1.6′				
10'	76.5	2.0′				
15'	34.0	3.2'				
20'	19.1	4.2'				
30'	8.5	6.4′				
40'	4.8	8.4′				

Filename: 230-10LED4021-12-BK.IES						
Test No.: P185199						
Distance	FC	Beam Diameter				
2'	548.5	0.6′				
4'	137.1	1.3′				
6'	60.9	2.1′				
8'	34.3	2.8′				
10'	21.9	3.6′				
15'	9.8	5.3′				
20'	5.5	7.2′				
30'	2.4	10.6′				
40'	1.4	13.9′				

Filename: 230-10LED4041-12-BK.IES							
Test No.: P1	Test No.: P185949						
Distance	FC	Beam Diameter					
2'	290.7	0.8′					
4'	72.7	1.6′					
6'	32.3	2.5′					
8'	18.2	3.3′					
10'	11.6	4.2'					
15'	5.2	6.4′					
20'	2.9	8.5′					
30'	1.3	12.6′					
40'	0.7	16.2′					

# CCT MULTIPLIER TABLE

CCT(K) / COLOR	MULTIPLIER
2700K	0.79
3000K	0.86
4000K	1.00
5700K	1.05
AMBER	0.57

# TECHNICAL INFORMATION

- 1. Dimming is dependant on remote transformer compatibility with LED module. Please see compatibility matrix for dimmer switch and transformer selection.
- 2. When using a magnetic dimmer switch there are two recommended LED compatible 120V magnetic dimming switches: Lutron Ariadni AVLV-600P and Lutron Diva DVLV-600P
- 3. IMPORTANT: when sizing the transformer use 9 watts for 6LED or 15 watts for 10LED option fixture. Nominal power draw after start up is 6 watts or 10 watts accordingly. The LED module is designed to operate between 10 and 13 volts. Any less or more voltage can cause premature failures.

