

Project		Catalog #		Type	
Prepared by		Notes		Date	



# Lumière

## Cambria 206

LED / Halogen  
Pathways

### Typical Applications

- Hospitality • Commerical Landscape • Outdoor Area/Site • Residential
- Architectural

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- Product Warranty

### Product Certification



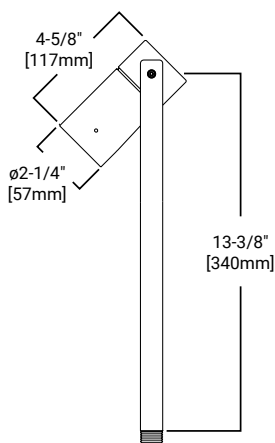
### Product Features



### Top Product Features

- 340° tilt, 360° rotation
- Precision-machined aluminum, brass, bronze, copper or stainless steel
- Stainless steel hardware
- Siphon Protection System (S.P.S.)
- Holds up to three optical accessories
- Three-year warranty

### Dimensions



### TECHNICAL DATA

Low Voltage:  
50W Max Halogen MR16  
8W LED, L70/60,000 hours at 25°C

## Order Information

SAMPLE ORDER NUMBER: 206-8LED2710-12-CS

Series	Source (for LED, select from each column and combine)	Voltage	Finish
206=LED or MR16 Cambria Path Fixture	50MR16=50W max. Halogen MR16, GU5.3 Base	12=12V	<b>Painted</b> BK=Black BZ=Bronze CS=City Silver VE=Verde WT=White  <b>Premium Finish</b> NBR=Natural Brass NCP=Natural Copper NBZ=Natural Bronze* NSS=Natural Stainless Steel
	8LED=8W LED 27=2700K 30=3000K 40=4000K*  10=10° Spot 25=25° Narrow 36=36° Wide		
	5LED=5W LED AM=Amber (585-595nm)* 25=25° Narrow		
<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>
	* Not Title 20 compliant. Unless noted otherwise, lamps not included.		* 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 F73= Green Dichroic F74= Medium Blue F75= Yellow Dichroic F76= Red Dichroic F77= Dark Blue Dichroic F78= Light Blue Dichroic F79= Neutral Density Dichroic F80= Magenta Dichroic F22= Red Color F33= Blue Color F44= Green Color F55= Yellow Color F66= Mercury Vapor	LSL=Linear Spread Lens (elongates standard beam spread) DIF=Diffused lens (provides even illumination) OSL=Overall Spread Lens (increases standard beam spread)	LVR=45° Hex Cell Louver (reduces glare)
<b>Notes</b>	<b>Notes</b>	<b>Notes</b>
See Accessories & Technical Data section of Lumiere catalog for Mounting Accessories. Consult your customer service representative for additional options and finishes.		

## Mounting Accessories - Order Separately

Ground Mounting
GS01=1-1/2" x 6-3/4" (38mm x 171mm) cast zinc ground spike. GS03=2-3/8" x 6-5/8" (960mm x 168mm) aluminum ground spike with integral 12V wiring compartment. Specify powder paint finish (BK,BZ,CS,VE,WT) GS04=1" x 16-1/2" (25mm x 419mm) aluminum ground spike with integral 12V wiring compartment. Specify powder paint finish (BK,BZ,CS,VE,WT) GS05=1" x 16-1/2" (48mm x 438mm) black polycarbonate ground spike with 2"-13" height adjustment - requires fixture with extended stem. GS08=1-7/8" x 8" (48mm x 203mm) black ABS ground spike. GS13=3-3/4" x 4-1/2" (95mm x 114mm) brass/stainless steel 3 prong ground spike.
<b>Notes</b>

## Product Specifications

### Material

- Housing, hood and mounting stem are precision-machined from corrosion-resistant 6061-T6 aluminum billet, 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 constructed from brass, bronze\*, copper or stainless steel 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

### Lens

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

### Mounting Stem

- Model 206 includes an extended length-mounting stem and delivers 340° tilt and 360° rotation from any mounting position
- Stainless steel aim-locking mechanisms are standard
- Stem provided with 1/2 NPSM threaded base
- Lumière's exclusive Siphon Protection System (S.P.S.) prevents water from siphoning into the fixture through its own lead wires.

### Hardware

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

### Socket

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

### Electrical

- Remote 12V transformer required (not included)
- Initial power draw on LED equipped fixtures is 12 watts
- When sizing transformer use 12 watts per LED fixture

- Nominal power draw after start up is 8 watts
- LEDs are more voltage sensitive than standard halogen MR16 lamps
- The LED module is designed to operate within the range 12V +/- 1.2V. Any less or more voltage can cause premature failures

### Lamp

- Halogen lamp not included
- SORAA LED modules are included
- Available in three color temperatures (2700, 3000 and 4000) or Amber (585-595nm)
- Three distributions (spot, narrow, and flood)
- Both color temperature and distribution must be specified when ordering. Soraa lamp compatible (8W Max)

### Compliance

- Tested to IESNA LM-79 and LM-80

### Warranty

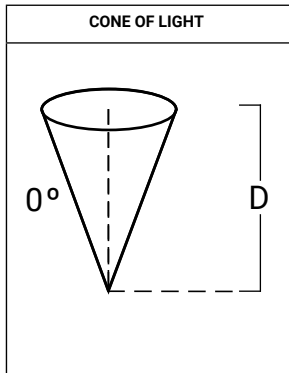
- Lumière warrants its fixtures against defects in materials & workmanship for three (3) years. Auxiliary equipment such as transformers and lamps carry the original manufacturer's warranty.

\*For natural bronze ROHS material consult factory.

## Cambria 206 & 206-2 MR16 Halogen Photometric Data

[View IES files](#)

### Horizontal Illuminance on Surface - Cambria 206 Standard Recessed Hood - 50W MR16



Filename	206-50MR16-12-BK-NSP.ies	
Lamp	50W MR16 NSP	
CBCP	11,000	
Distance	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	206-50MR16-12-BK-NFL.ies	
Lamp	50W MR16 NFL	
CBCP	3,200	
Distance	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	206-50MR16-12-BK-FL.ies	
Lamp	50W MR16 FL	
CBCP	2,000	
Distance	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	206-50MR16-12-BK-WFL.ies	
Lamp	50W MR16 WFL	
CBCP	1,200	
Distance	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.

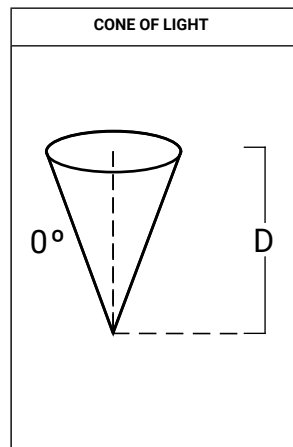
## Cambria 206 LED Photometric Data

LED Lumen and CBCP Table - 3000K

 View IES files

		Flush Hood			Regressed Hood (Black)			Regressed Hood (Silver)		
		CBCP	LUMENS	LPW	CBCP	LUMENS	LPW	CBCP	LUMENS	LPW
10	<b>BASE</b>	<b>5980</b>	<b>351.3</b>	<b>43.6</b>	<b>5541</b>	<b>298.5</b>	<b>37.1</b>	<b>5052</b>	<b>296.9</b>	<b>39.7</b>
	+DIFF	985	286.9	35.8	968	220.4	27.4	930	233.2	31.2
	+LSL	1310	309.9	38.6	1299	253.1	31.4	1200	252.7	33.8
	+LVR	5270	243.0	30.6	4838	235.3	29.2	4633	225.1	30.1
	+OSL	1686	328.6	41.4	1700	285.7	35.5	1609	291.1	39
25	<b>BASE</b>	<b>2690</b>	<b>417.2</b>	<b>53.5</b>	<b>2559</b>	<b>374.2</b>	<b>47.4</b>	<b>2357</b>	<b>361.8</b>	<b>49.4</b>
	+DIFF	761	338.6	43.4	729	267.7	33.9	720	281.4	36.2
	+LSL	795	375.1	48.1	778	316.3	40.2	719	312.0	42.2
	+LVR	2396	285.9	36.7	2294	272.4	34.1	2092	253.3	35.3
	+OSL	1452	383.4	49.1	1414	345.0	43.8	1328	341.2	45.2
36	<b>BASE</b>	<b>1144</b>	<b>409.2</b>	<b>53.1</b>	<b>1125</b>	<b>369.1</b>	<b>47.6</b>	<b>1080</b>	<b>371.7</b>	<b>49</b>
	+DIFF	542	336.3	43.6	532	264.3	34.1	502	268.6	35.1
	+LSL	486	371.1	48.2	480	305.6	39.4	484	317.4	41.7
	+LVR	1030	267.9	34.8	996	252.1	32.4	967	251.8	33.1
	+OSL	930	384.3	49.9	932	337.8	43.6	910	348.6	45.7

### Horizontal Illuminance on Surface - Cambria 206 Standard Recessed Hood - 4000K



Filename: 206-SS-8LED4010-12-BK.ies			
Test No.: G2-1802-569-4			
Distance	FC	Beam Diameter	
2'	1385.2	0.4	
4'	346.3	0.8	
6'	153.9	1.2	
8'	86.6	1.6	
10'	55.4	2	
15'	24.6	3.2	
20'	13.9	4.2	
30'	6.2	6.4	
40'	3.5	8.4	

Filename: 206-SS-8LED4025-12-BK.ies			
Test No.: G2-1802-569-5			
Distance	FC	Beam Diameter	
2'	639.8	0.6	
4'	159.9	1.2	
6'	71.1	1.8	
8'	40	2.4	
10'	25.6	3	
15'	11.4	4.6	
20'	6.4	6	
30'	2.8	9.2	
40'	1.6	12.2	

Filename: 206-SS-8LED4036-12-BK.ies			
Test No.: G2-1802-569-6			
Distance	FC	Beam Diameter	
2'	281.2	1	
4'	70.3	2.2	
6'	31.2	3.4	
8'	17.6	4.6	
10'	11.2	5.8	
15'	5	8.6	
20'	2.8	11.6	
30'	1.2	17.4	
40'	0.7	23.2	

### CCT MULTIPLIER TABLE

CCT (K) / COLOR	MULTIPLIER
2700K	0.91
3000K	0.89
4000K	1.00

Note: Multiplier can be used to calculate center beam candle power (CBCP), Lumens and footcandle (FC) values.

### 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 transformer use 12 watts per LED fixture. Nominal power draw after start up is 8 watts. Any less or more voltage can cause premature failures.