

## DESCRIPTION

Cambria 920 is a small dimmable LED or MR16 low voltage sign lighting luminaire. It attaches to a wall mounted 36 in. hook arm and delivers 180° of vertical adjustment for easy aiming. Optional 24", 30" or 36" hook arms are available. Various lenses, louvers and color or dichroic filters can be combined - up to three at once - to create multiple lighting effects. The Lumière exclusive Siphon Protection System (S.P.S.) prevents water from siphoning into the fixture through its own lead wires.

Catalog #	Type
Project	
Comments	Date
Prepared by	

## SPECIFICATION FEATURES

### Material

Housing, hood, hook arm and wall mounting plate are precision-machined from corrosion-resistant 6061-T6 aluminum.

### Finish

Fixtures are double protected by a chromate conversion undercoating and polyester powdercoat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available.

### 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.

### Adjustable Mounting Arm

Standard 36" hook arm with adjustable center rear swivel provides 180° of vertical adjustment for easy aiming. Optional 24", 30", or 36" hook arms are available (specify option -HA24, -HA30 or -HA36). Stainless steel aim-locking mechanisms are standard. 4-1/4" diameter wall mounting plate attaches directly to standard J-box with screws provided. 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). Available from Lumière as an accessory - see the Accessories & Technical Data section of the catalog for details. 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.

### Lamp

Halogen lamp not included. Sora lamp compatible (6W Max). 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.

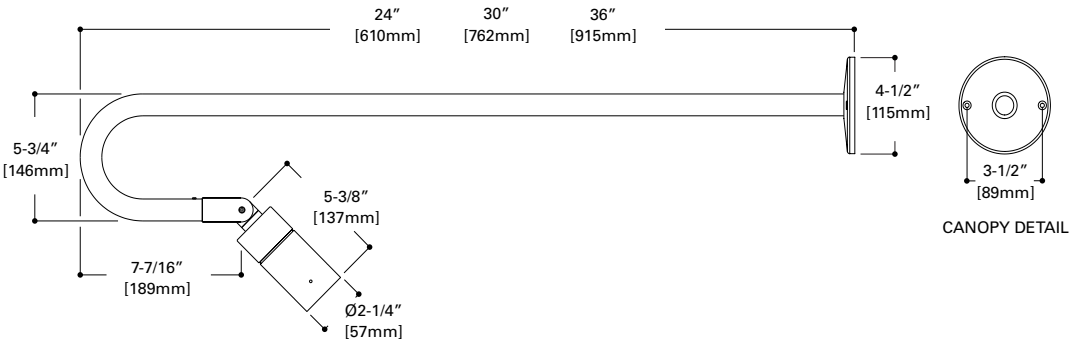
### Warranty

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.



## 920 CAMBRIA LED HALOGEN

### APPLICATIONS: SIGN LIGHT



**CERTIFICATION DATA**  
UL and cUL Wet Location Listed  
LM79 / LM80 Compliant  
ROHS Compliant  
IP65 Ingress Protection Rated

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

## ORDERING INFORMATION

Sample Number: 920-10LED2712-12-BK-HA24

Series	Source (for LED, select from each column and combine)	Voltage	Finish	Stem Length
920=LED or MR16 Cambria Sign Light, Hook Arm, Center Rear Swivel, Single Head	50MR16=50W max. Halogen MR16 (lamp not included)		12=12V	Painted BK=Black BZ=Bronze CS=City Silver VE=Verde WT=White  HA24= 24" Length HA30= 30" Length HA36= 36" Length
	6LED=6W LED 10LED=10W LED	27=2700K 30=3000K 40=4000K 57=5700K		
	4LED=4W LED 7LED=7W LED	AM=Amber (585-595nm)		
		12=12° Spot 21=21° Narrow 41=41° Wide		

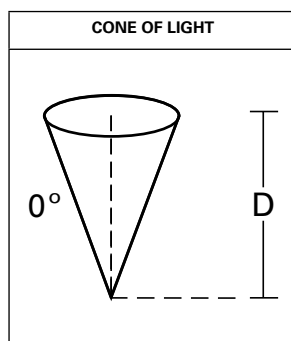
NOTES: 1 Unless noted otherwise, lamps not included. 2 See Accessories & Technical Data section of Lumière catalog for Mounting Accessories. 3 Consult your customer service representative for additional options and finishes.

## OPTICAL ACCESSORIES - ORDER SEPARATELY

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

## CAMBRIA 920 MR16 HALOGEN PHOTOMETRY DATA

### Horizontal Illuminance on Surface - Cambria 920 Standard Recessed Hood - 50W MR16



Filename	920-50MR16-12-BK-NSP.ies	
Lamp	50W MR16 NSP	
CBCP	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	920-50MR16-12-BK-NFL.ies	
Lamp	50W MR16 NFL	
CBCP	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	920-50MR16-12-BK-FL.ies	
Lamp	50W MR16 FL	
CBCP	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	920-50MR16-12-BK-WFL.ies	
Lamp	50W MR16 WFL	
CBCP	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

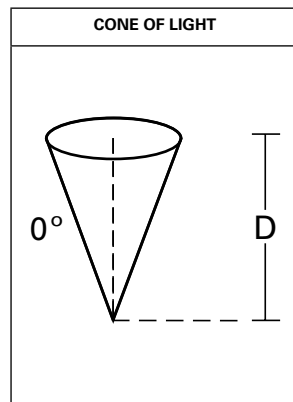
- Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.
- Footcandle values are initial. Apply appropriate light loss factors where necessary.
- Bare lamp data shown. Consult lamp manufacturers to obtain detailed specifications for their lamps.

## CAMBRIA 920 LED PHOTOMETRY DATA

### LED Lumen and CBCP Table - 4000K

OPTICTYPE (beam spread)	BASE + ACCESSORY OPTIONS	4000K CCT - Standard Hood					
		10W			6W		
		CBCP	LUMENS	LPW	CBCP	LUMENS	LPW
12'	BASE	7931	419	45	5948	314	53
	+ DIF (DIFFUSE)	1178	289	31	884	217	37
	+ OSL (OVERALL SPREAD LENS)	820	350	38	615	263	45
	+ LSL (LINEAR SPREAD LENS)	NA	343	36	NA	257	44
	+ LVR (HEXCELL LOUVER)	7165	339	36	5374	254	43
21'	BASE	2194	344	37	1646	258	44
	+ DIF (DIFFUSE)	683	241	26	512	181	31
	+ OSL (OVERALL SPREAD LENS)	595	290	32	446	218	37
	+ LSL (LINEAR SPREAD LENS)	NA	282	31	NA	212	36
	+ LVR (HEXCELL LOUVER)	2030	249	27	1523	187	32
41'	BASE	1173	304	33	880	228	39
	+ DIF (DIFFUSE)	418	205	22	314	154	26
	+ OSL (OVERALL SPREAD LENS)	595	250	27	446	188	32
	+ LSL (LINEAR SPREAD LENS)	NA	245	27	NA	184	31
	+ LVR (HEXCELL LOUVER)	1078	195	21	809	146	25

### Horizontal Illuminance on Surface - Cambria 920 Standard Recessed Hood -4000K



Filename: 920-10LED4012-12-BK.ies		
Test No.: P184456		
D	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: 920-10LED4021-12-BK.ies		
Test No.: P185206		
D	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: 920-10LED4041-12-BK.ies		
Test No.: P185956		
D	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

- Dimming is dependant on remote transformer compatibility with LED module. Please see [compatibility matrix](#) for dimmer switch and transformer selection.
- 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
- 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.