

Application

This LED wall luminaire has a partially shielded light source and is designed for the down lighting of interior and exterior locations with glare-free illumination.

Materials

Luminaire housing constructed of die-cast and spun marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy
 Three-ply opal glass
 High temperature silicone gasket

NRTL listed to North American Standards, suitable for wet locations
 Protection class IP44
 Weight: 4.0lbs

Electrical

Operating voltage	120-277V AC
Minimum start temperature	-20° C
LED module wattage	8.9W
System wattage	12W
Controllability	0-10V dimmable
Color rendering index	Ra > 90
Luminaire lumens	724 lumens (3000K)
Lifetime at Ta = 15° C	500,000 h (L70)
Lifetime at Ta = 40° C	268,000 h (L70)

LED color temperature

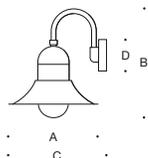
- 4000K - Product number + **K4**
- 3500K - Product number + **K35**
- 3000K - Product number + **K3**
- 2700K - Product number + **K27**

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors	Black (BLK)	White (WHT)	RAL:
	Bronze (BRZ)	Silver (SLV)	CUS:



LED wall luminaire - partially shielded

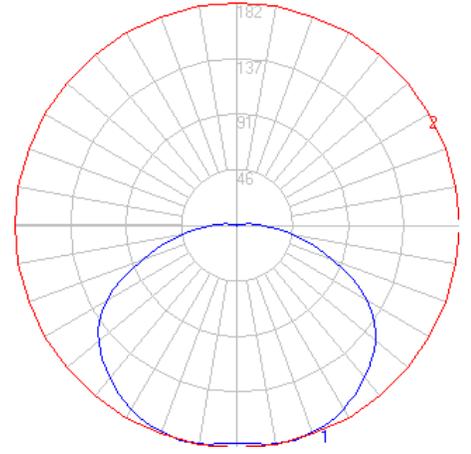
	LED	A	B	C	D
66411	8.9W	12 5/8	14 1/2	13 1/2	4 3/8



BEGA

Photometric Filename: 66411.IES

TEST: BE_66411
 TEST LAB: BEGA
 DATE: 9/12/2017
 LUMINAIRE: 66 411
 LAMP: 8.9W LED



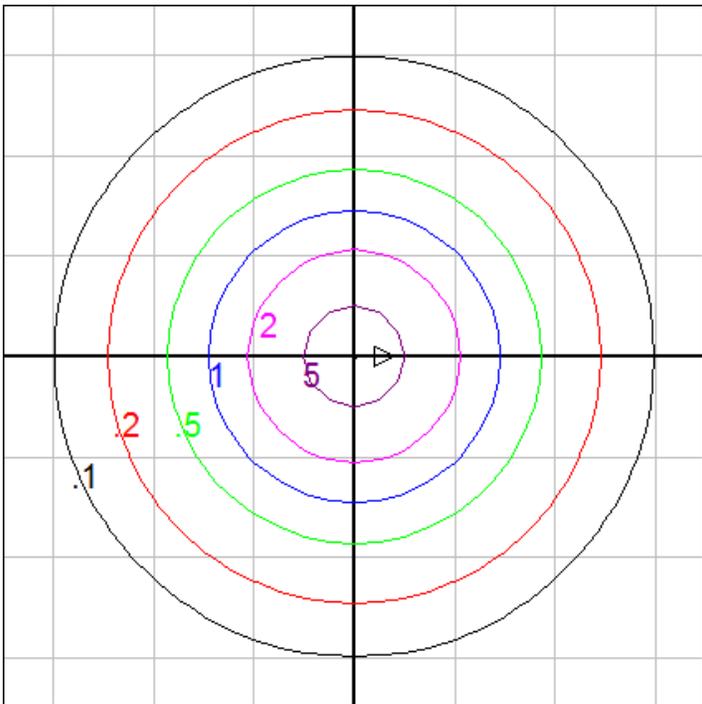
Characteristics

IES Classification	Type V
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	724
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	12
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Max. Cd.	182.007 (0H, 15V)
Max. Cd. (<90 Vert.)	182.007 (0H, 15V)
Max. Cd. (At 90 Deg. Vert.)	21.828 (3.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	47.401 (6.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

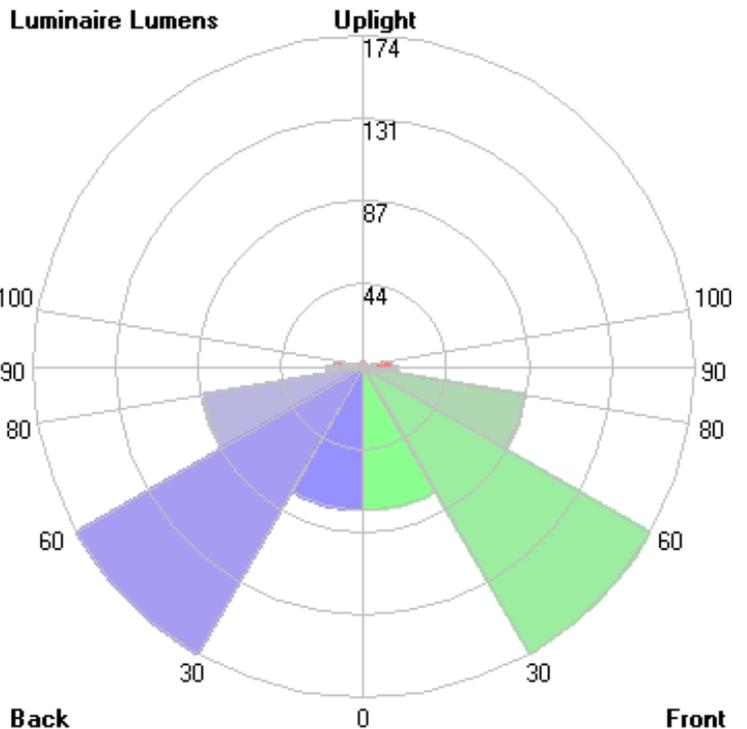
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	75.5	N.A.	10.4
FM (30-60)	174.4	N.A.	24.1
FH (60-80)	85.8	N.A.	11.8
FVH (80-90)	18.4	N.A.	2.5
BL (0-30)	75.5	N.A.	10.4
BM (30-60)	174.4	N.A.	24.1
BH (60-80)	85.8	N.A.	11.8
BVH (80-90)	18.4	N.A.	2.5
UL (90-100)	14.5	N.A.	2.0
UH (100-180)	1.9	N.A.	0.3
Total	724.6	N.A.	100.0

BUG Rating B0-U2-G1

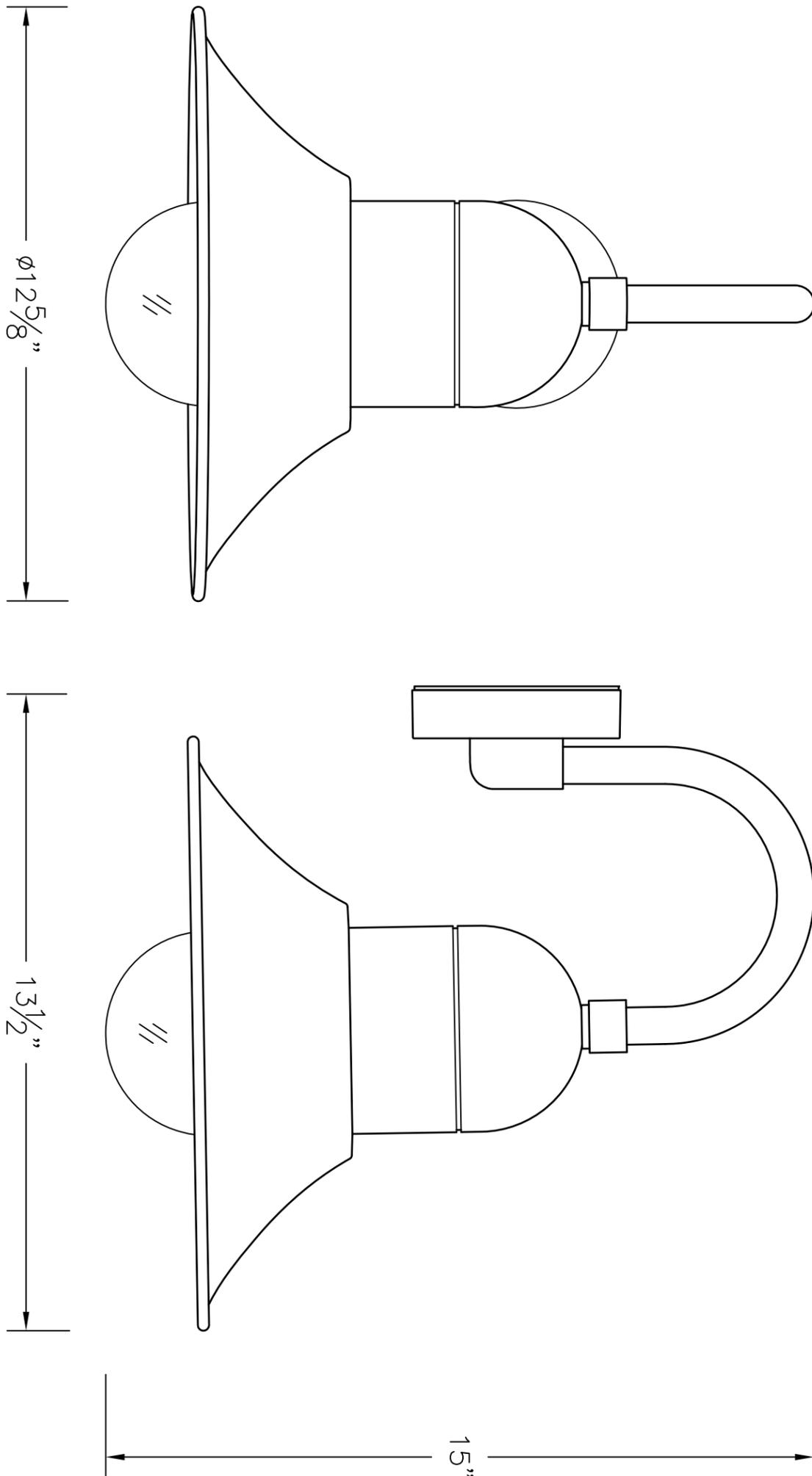
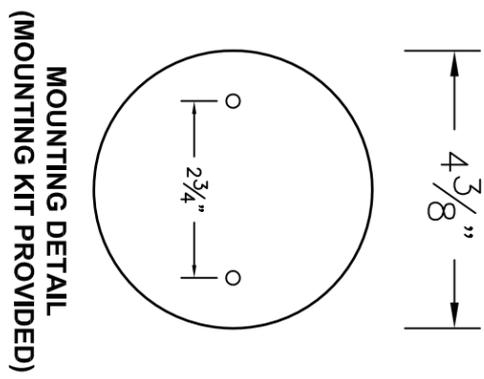


Mounting Height = 5 ft. Grid Spacing = 5 ft.



In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

NOTE: LUMINAIRE # 66 411 – SEE SPECIFICATIONS



TYPE: _____

SUBMITTAL APPROVAL

APPROVED BY: _____

SIGNED: _____ DATE: _____

CAT NO.: 66 411

PROJECT: -

LOCATION: -

DRAWN: RA DATE: 9/12/2017 FILE NAME: 66411.dxf

BEGA

1000 Bega Way
Carpinteria, Ca. 93013
(805) 684-0533

REV.	DATE	DESCRIPTION

This print contains confidential information which is the property of BEGA U.S. By acceptance this information, the borrower agrees that it will not be used for any other purpose other than that which is was loaned.

Pole top luminaires with asymmetrical light distribution

Housing: Two interlocking die-cast aluminum housings. Heavy gauge .080" spun aluminum shade with rolled edge, finished white inside. Die castings are marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy.

Arm: Fabricated from .125" wall aluminum extrusion formed into a continuous smooth radius, terminating and welded into a one piece die-cast aluminum fitter. Fitter slip fits a 3" O.D. pole top and is secured by six (6) socket head stainless steel set screws threaded into stainless steel inserts.

Enclosure: Lamp enclosure/optical system comprises an assembly of two pure anodized aluminum asymmetrical main beam reflectors with clear impact resistant acrylic lens with optical texture fixed to a heavy gauge .080" spun aluminum shade with rolled edge, finished white inside and rigidly fastened to the luminaire housing. Fasteners are stainless steel.

Electrical: 15.8W LED luminaire, 19 total system watts, -20°C start temperature. Integral 120V - 277V electronic LED driver, dimming not available. Standard LED color temperature is 4000K with a >80 CRI. Available in 3000K (>80 CRI); add suffix K3 to order.

Note: Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

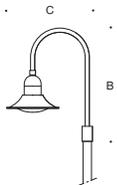
UL listed for US and Canadian Standards, suitable for wet locations. Protection class: IP65.

Weight: 23.1lbs.

EPA (Effective projection area): 1.7 sq. ft.

Luminaire Lumens: 2250

Type:
 BEGA Product:
 Project:
 Voltage:
 Color:
 Options:
 Modified:



Single pole-top luminaires

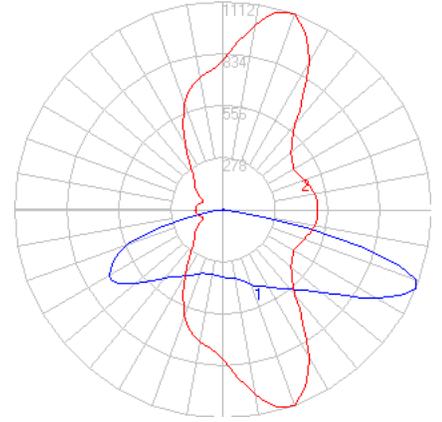
	Lamp	LEED	A	B	C
77910	15.8W LED	LZ-2	19 ³ / ₄	40 ⁵ / ₈	32 ⁵ / ₈

Recommended for use with 14' to 18' poles.

BEGA

Photometric Filename: 77910.ies

TEST: BE77910
 TEST LAB: BEGA
 DATE: 11/29/2016
 LUMINAIRE: 77 910
 LAMP: 15.8W LED



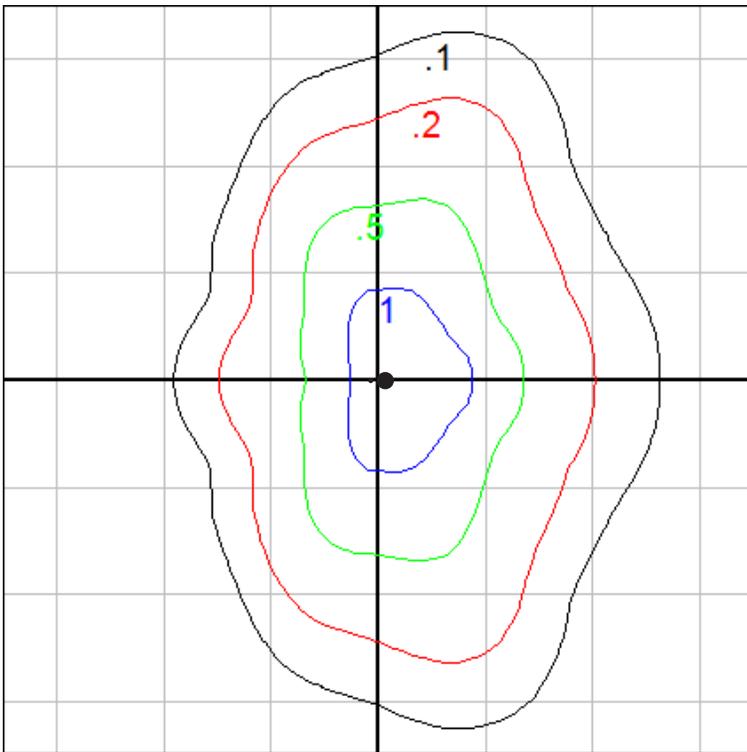
Characteristics

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2250
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	19
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	1111.8 (290H, 67.5V)
Max. Cd. (<90 Vert.)	1111.8 (290H, 67.5V)
Max. Cd. (At 90 Deg. Vert.)	4 (0.2%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	221 (9.8%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

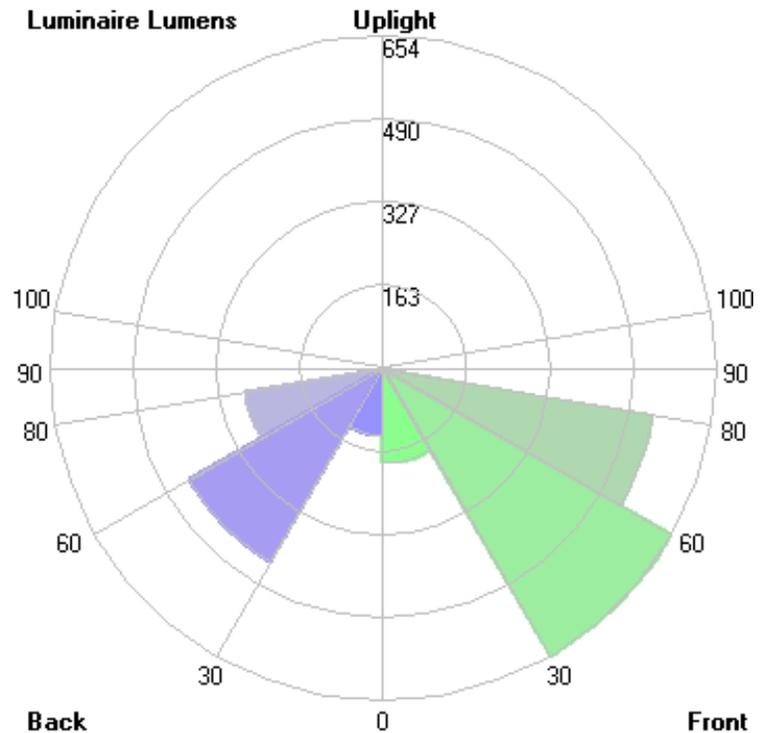
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	186.9	N.A.	8.3
FM (30-60)	653.8	N.A.	29.1
FH (60-80)	537.8	N.A.	23.9
FVH (80-90)	13.8	N.A.	0.6
BL (0-30)	132.5	N.A.	5.9
BM (30-60)	439.5	N.A.	19.5
BH (60-80)	274.2	N.A.	12.2
BVH (80-90)	10.3	N.A.	0.5
UL (90-100)	1.3	N.A.	0.1
UH (100-180)	0.1	N.A.	0.0
Total	2250.2	N.A.	100.0

BUG Rating B1-U1-G1



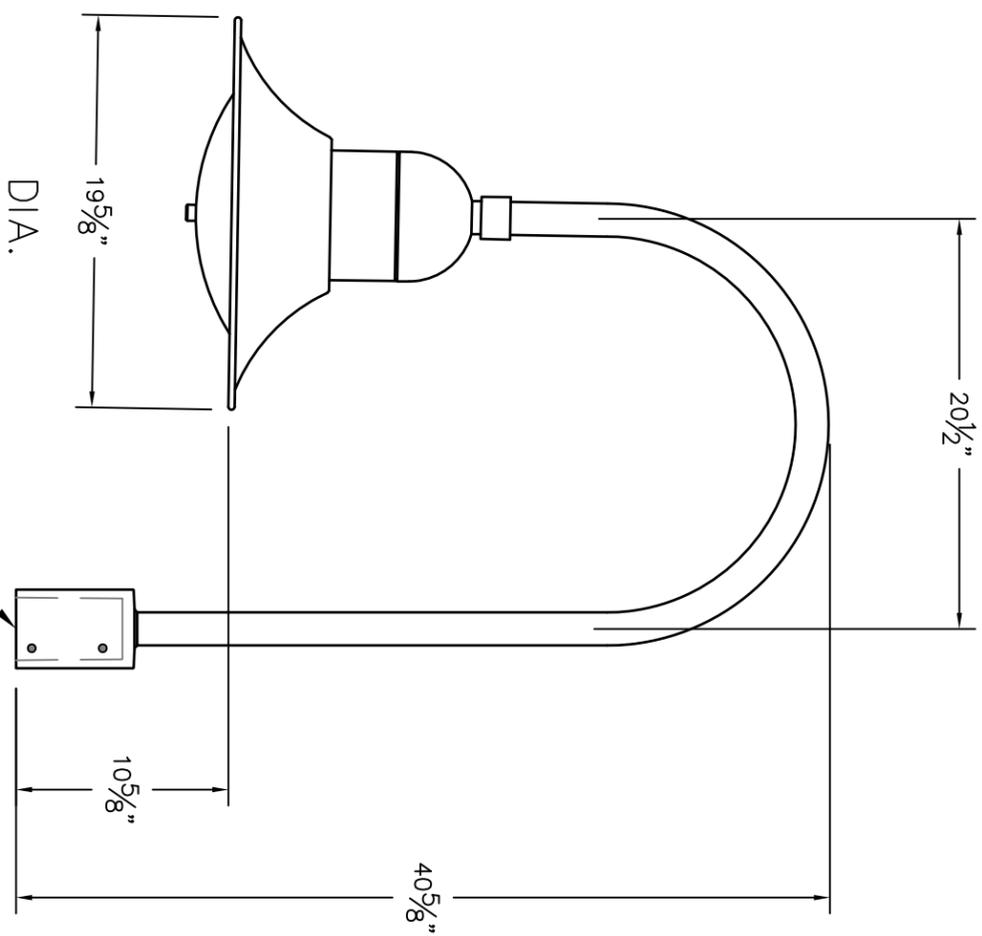
Mounting Height: 15 ft. 8 in. (1508HR) Grid Spacing: 15 ft.



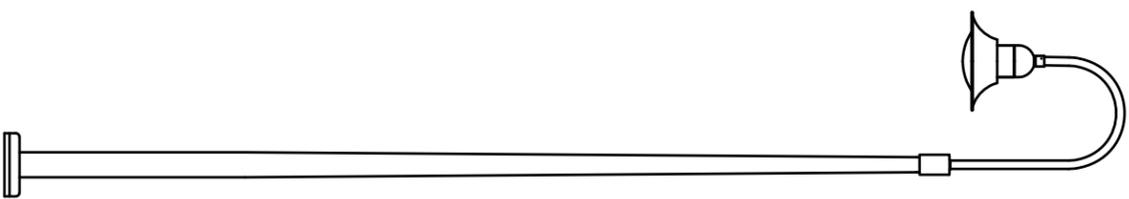
In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

NOTES:

1. LUMINAIRE # 77 910 – SEE SPECIFICATIONS.



SLIP FITS 3" O.D.
POLE OR TENON
(REQUIRES A MINIMUM 4 1/2" LENGTH OF
STRAIGHT DIA. POLE/TENON)



SHOWN ON 1508HR

TYPE: _____

SUBMITTAL APPROVAL

APPROVED BY: _____
SIGNED: _____ DATE: _____

CAT NO.: 77 910
PROJECT: -
LOCATION: -
DRAWN: RA DATE: 7/24/2017 FILE NAME: 77910.dxf

BEGA

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(805) 684-0533

REV.	DATE	DESCRIPTION

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**BEGA LED system bollard - luminaire head
with shielded light - 360°**

Enclosure: Housing constructed of die-cast aluminum. Die-castings are marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy. Glass diffuser, inside white. Fully gasketed for weather tight operation using molded silicone gasket.

Installation: BEGA LED system bollards are designed for easy attachment to system bollard tubes using an interlocking stainless steel mechanism and stainless steel set screw threaded into stainless steel insert. An accompanying bollard tube must be selected for proper installation, see below chart for compatible tube options.

Electrical: 16.5W LED luminaire, 19.8 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with a >80 CRI. Available in 4000K (>80 CRI); add suffix K4 to order.

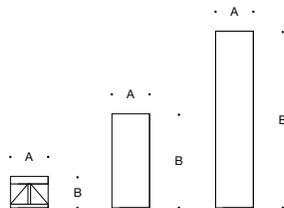
Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

Weight: 8.4 lbs

Luminaire Lumens: 1286



Bollard heads · shielded · 360°

Lamp	A	B
99 862 16.5W LED	7½	5½

Bollard tubes

Integrated components	Door	A	B	Anch. unit
99 622 —	✓	7½	32	79 818
99 644 1 LED floodlight 19.3W	✓	7½	32	79 818
99 626 GFCI outlet	✓	7½	32	79 818
99 658 Passive infrared motion sensor	✓	7½	32	79 818
99 635 Emergency lighting battery 10W	✓	7½	32	79 818
99 615 —		7½	14½	79 817

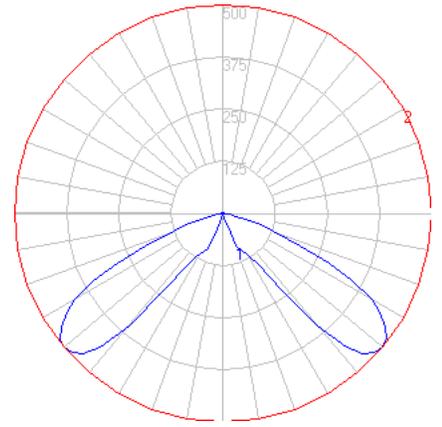
Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



BEGA

Photometric Filename: 99862.ies

TEST: BE_99862
 TEST LAB: BEGA
 DATE: 5/11/2017
 LUMINAIRE: 99 862
 LAMP: 16.5W LED



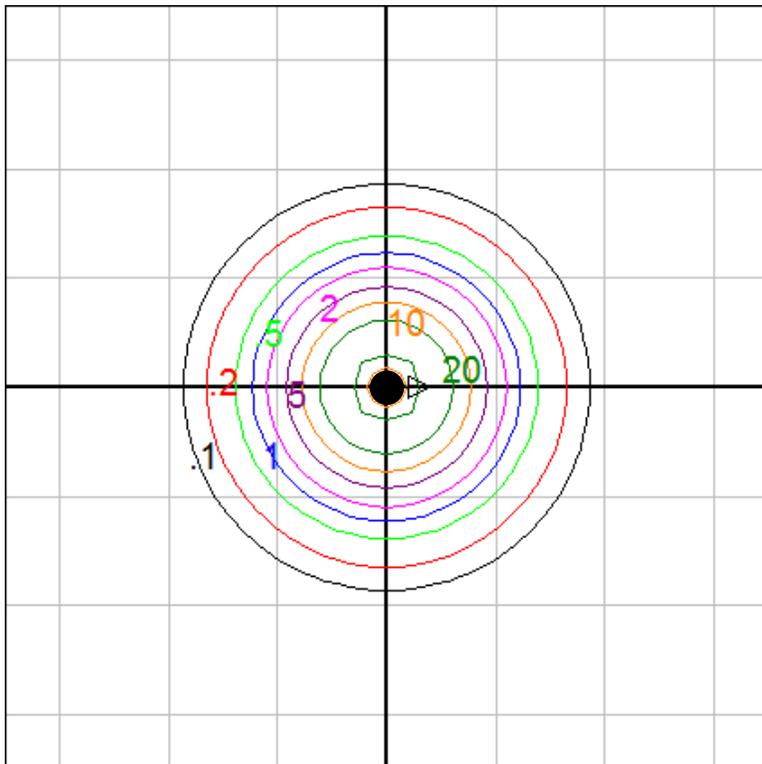
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1280
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	19.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	500 (0H, 50V)
Max. Cd. (<90 Vert.)	500 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	14.3 (1.1%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

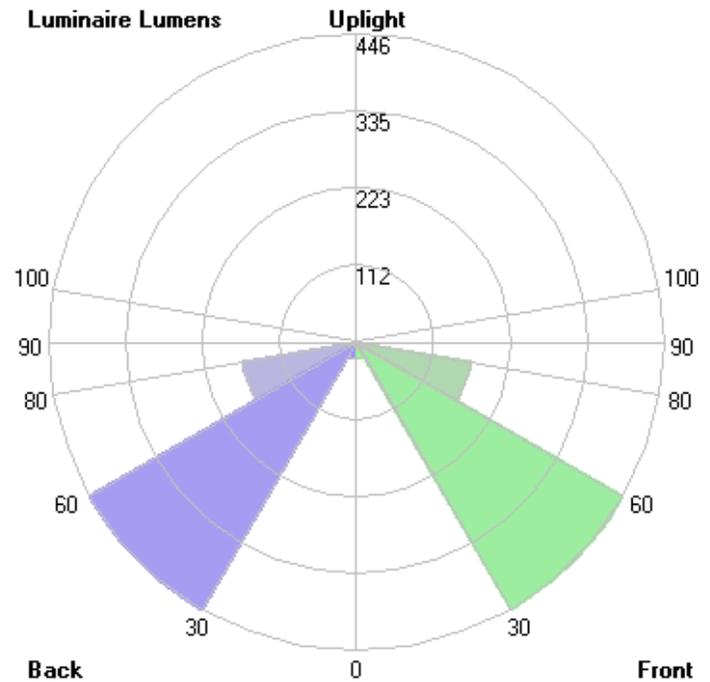
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	23.0	N.A.	1.8
FM (30-60)	446.4	N.A.	34.9
FH (60-80)	167.8	N.A.	13.1
FVH(80-90)	2.9	N.A.	0.2
BL (0-30)	23.0	N.A.	1.8
BM (30-60)	446.4	N.A.	34.9
BH (60-80)	167.8	N.A.	13.1
BVH(80-90)	2.9	N.A.	0.2
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1280.2	N.A.	100.0

BUG Rating B1-U0-G0



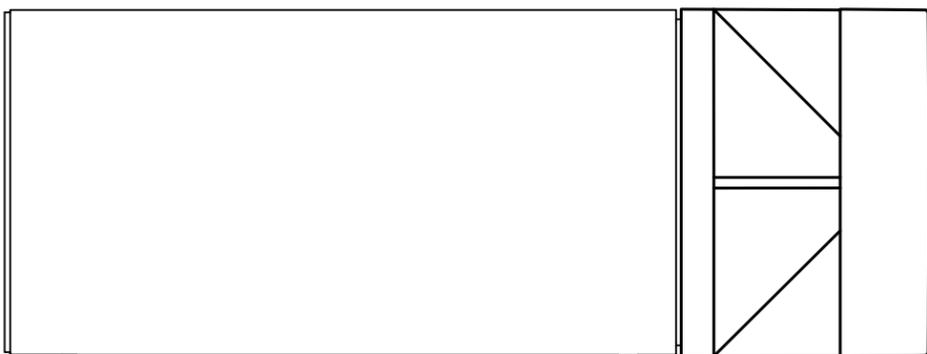
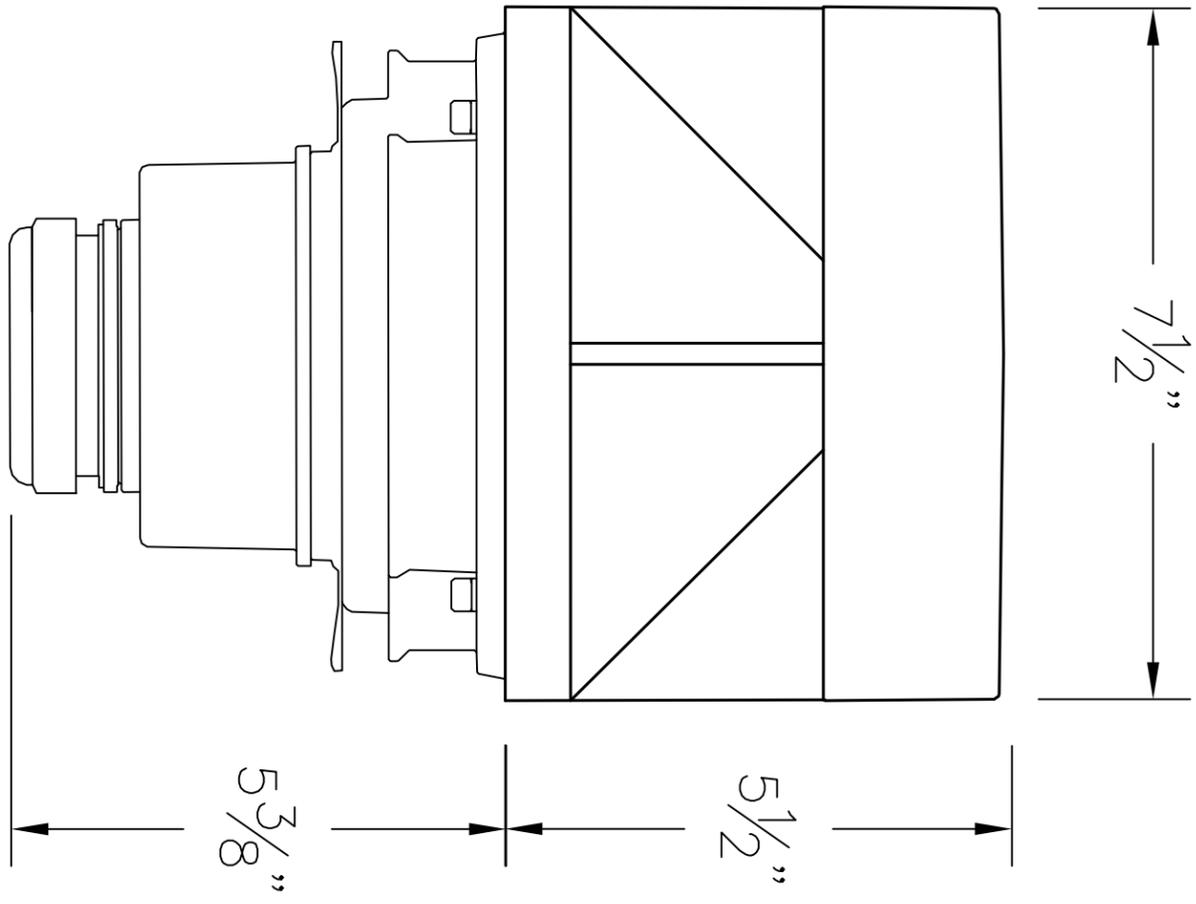
Mounting Height = 2.2 ft. Grid Spacing = 5 ft.

*Using 99 620 system bollard tube



In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

NOTES: SYSTEM BOLLARD HEAD # 99 862 – SEE SPECIFICATIONS



99 862 Shown on
Bollard Tube 99 615

(SCALE 1:2)

TYPE: _____

SUBMITTAL APPROVAL

APPROVED BY: _____

SIGNED: _____ DATE: _____

CAT NO.: 99 862

PROJECT: -

LOCATION: -

DRAWN: RA DATE: 8/26/2016 File Name: 99862.DXF

BEGA

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(805) 684-0533

REV.	DATE	DESCRIPTION

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