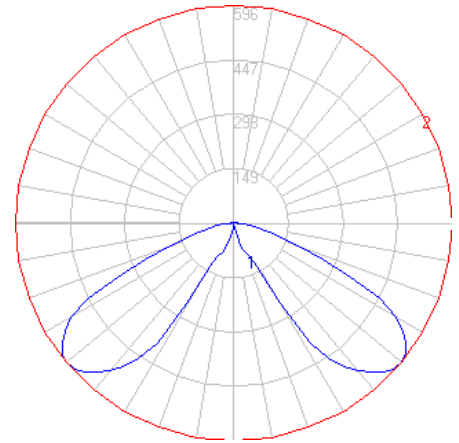


BEGA

Photometric Filename: 99856K4.ies

TEST: BE_99856K4
TEST LAB: BEGA
DATE: 1/10/2017
LUMINAIRE: 99 856K4
LAMP: 16.5W LED



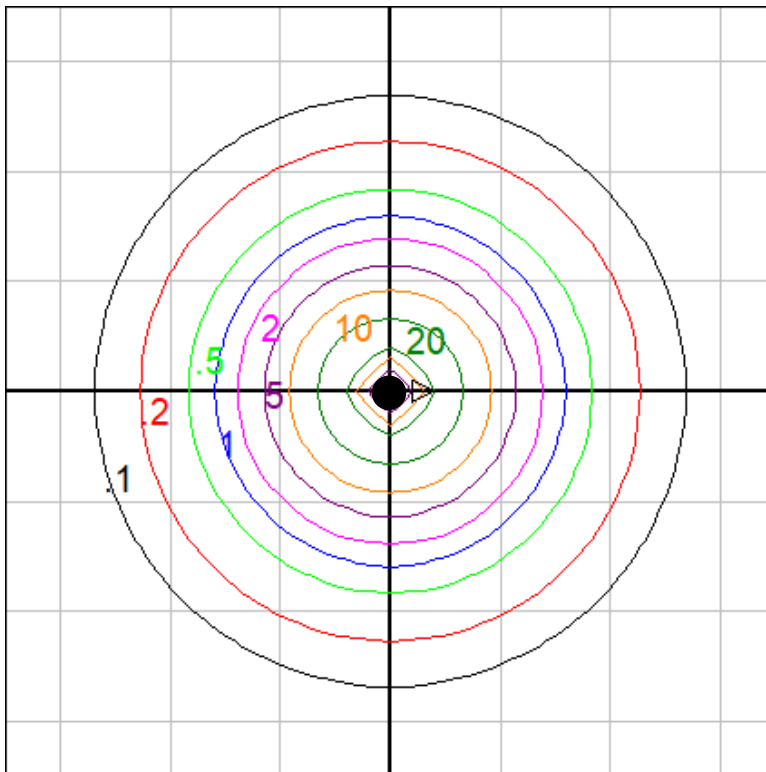
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1838
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	19.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Max. Cd.	596.3 (0H, 50V)
Max. Cd. (<90 Vert.)	596.3 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	10.2 (0.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	66.2 (3.6%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	34.8	N.A.	1.9
FM (30-60)	612.6	N.A.	33.3
FH (60-80)	235.5	N.A.	12.8
FVH (80-90)	16.0	N.A.	0.9
BL (0-30)	34.8	N.A.	1.9
BM (30-60)	612.6	N.A.	33.3
BH (60-80)	235.5	N.A.	12.8
BVH (80-90)	16.0	N.A.	0.9
UL (90-100)	11.1	N.A.	0.6
UH (100-180)	29.2	N.A.	1.6
Total	1838.1	N.A.	100.0

BUG Rating B1-U2-G1

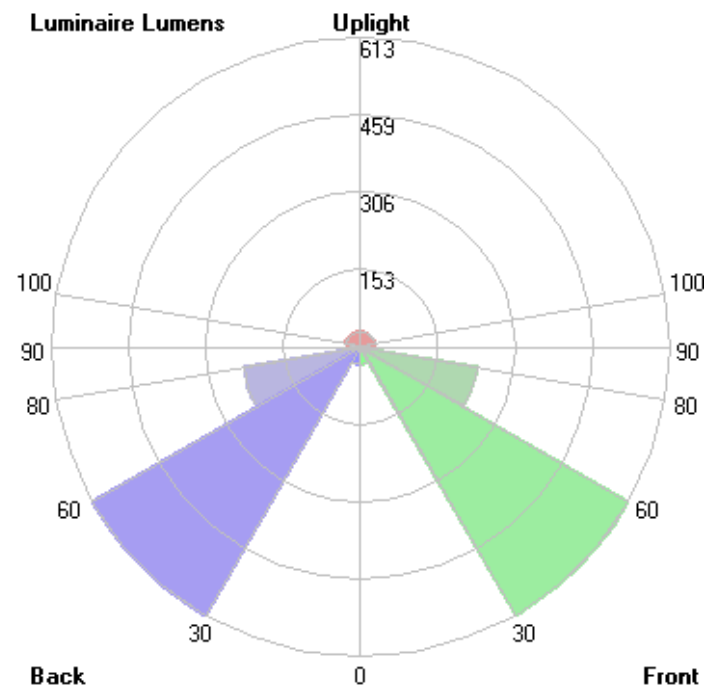


Mounting Height = 3 ft. Grid Spacing = 5 ft.

*Using 99 622 system bollard tube

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

BEGA 1000 Bega Way, Carpinteria, CA 93013 (805)684-0533 Fax (805)566-9474 www.bega-us.com © Copyright BEGA-US 2019

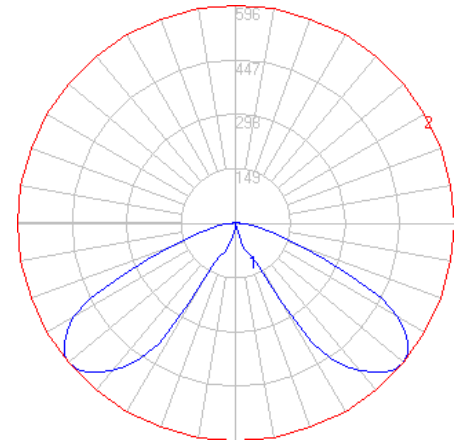


8/21/2019

BEGA

Photometric Filename: 99856K4.ies

TEST: BE_99856K35
 TEST LAB: BEGA
 DATE: 1/10/2017
 LUMINAIRE: 99 856K35
 LAMP: 16.5W LED



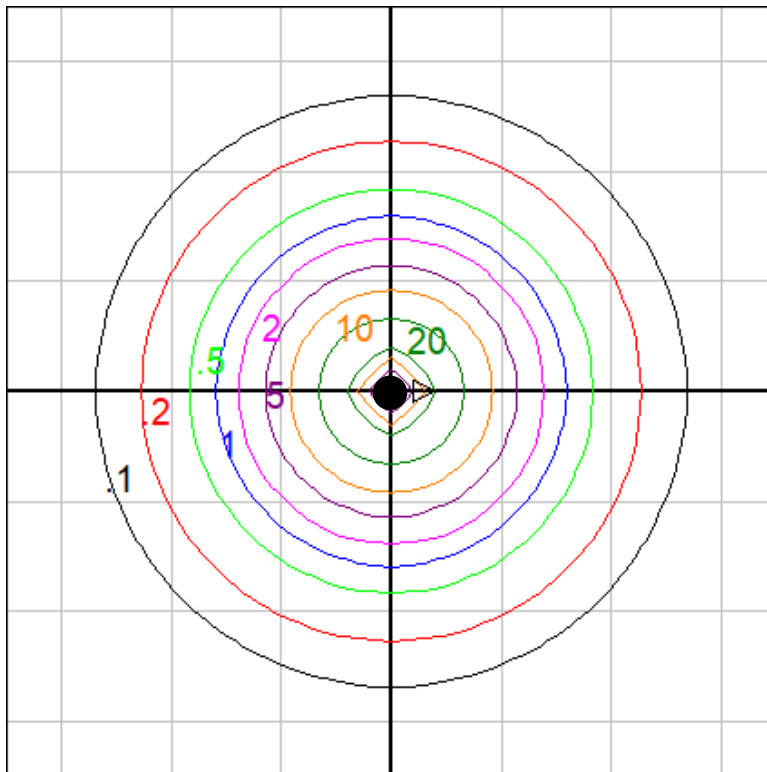
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1838
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	19.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Max. Cd.	596.3 (0H, 50V)
Max. Cd. (<90 Vert.)	596.3 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	10.2 (0.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	66.2 (3.6%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	34.8	N.A.	1.9
FM (30-60)	612.6	N.A.	33.3
FH (60-80)	235.5	N.A.	12.8
FVH (80-90)	16.0	N.A.	0.9
BL (0-30)	34.8	N.A.	1.9
BM (30-60)	612.6	N.A.	33.3
BH (60-80)	235.5	N.A.	12.8
BVH (80-90)	16.0	N.A.	0.9
UL (90-100)	11.1	N.A.	0.6
UH (100-180)	29.2	N.A.	1.6
Total	1838.1	N.A.	100.0

BUG Rating B1-U2-G1

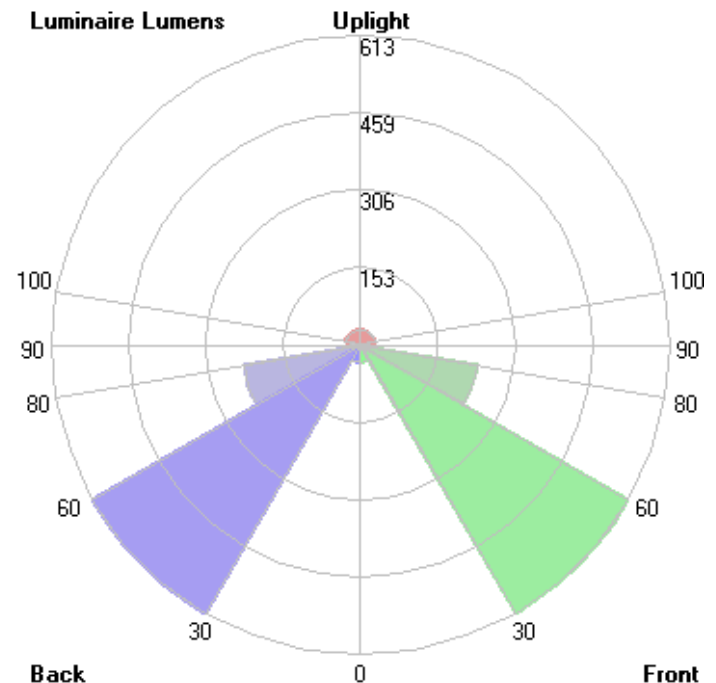


Mounting Height = 3 ft. Grid Spacing = 5 ft.

*Using 99 622 system bollard tube

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

BEGA 1000 Bega Way, Carpinteria, CA 93013 (805)684-0533 Fax (805)566-9474 www.bega-us.com © Copyright BEGA-US 2019

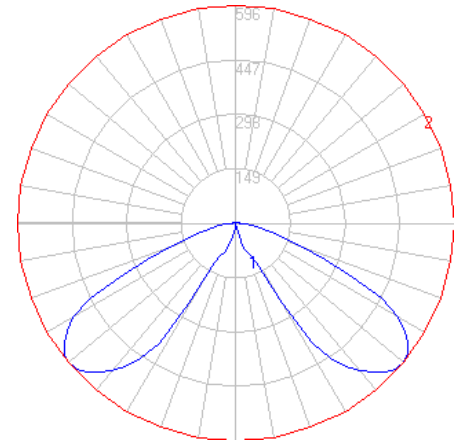


8/21/2019

BEGA

Photometric Filename: 99856K4.ies

TEST: BE_99856K3
 TEST LAB: BEGA
 DATE: 1/10/2017
 LUMINAIRE: 99 856K3
 LAMP: 16.5W LED



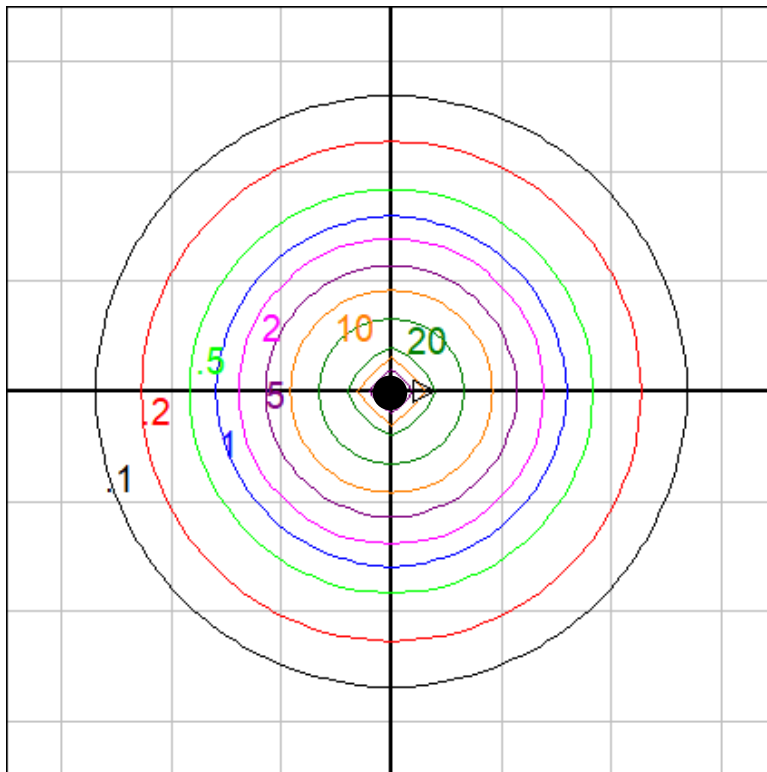
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1838
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	19.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Max. Cd.	596.3 (0H, 50V)
Max. Cd. (<90 Vert.)	596.3 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	10.2 (0.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	66.2 (3.6%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	34.8	N.A.	1.9
FM (30-60)	612.6	N.A.	33.3
FH (60-80)	235.5	N.A.	12.8
FVH (80-90)	16.0	N.A.	0.9
BL (0-30)	34.8	N.A.	1.9
BM (30-60)	612.6	N.A.	33.3
BH (60-80)	235.5	N.A.	12.8
BVH (80-90)	16.0	N.A.	0.9
UL (90-100)	11.1	N.A.	0.6
UH (100-180)	29.2	N.A.	1.6
Total	1838.1	N.A.	100.0

BUG Rating B1-U2-G1

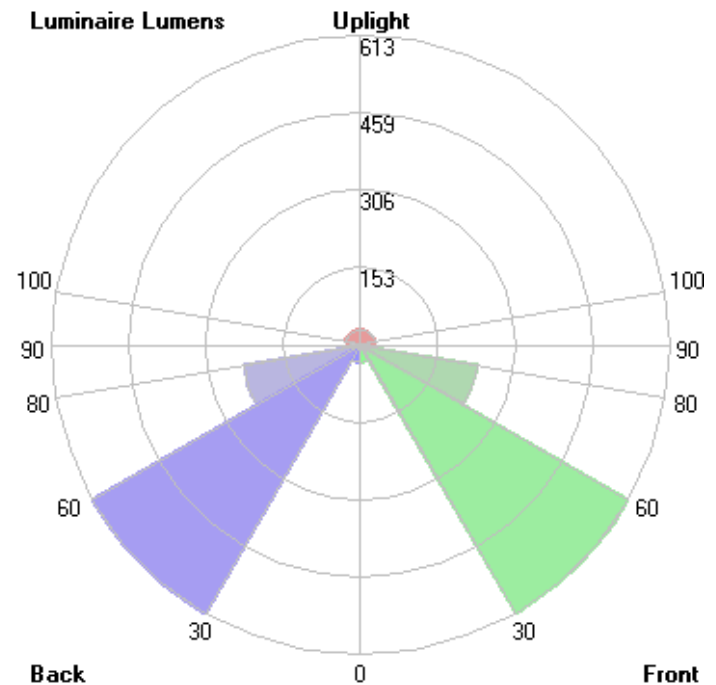


Mounting Height = 3 ft. Grid Spacing = 5 ft.

*Using 99 622 system bollard tube

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

BEGA 1000 Bega Way, Carpinteria, CA 93013 (805)684-0533 Fax (805)566-9474 www.bega-us.com © Copyright BEGA-US 2019

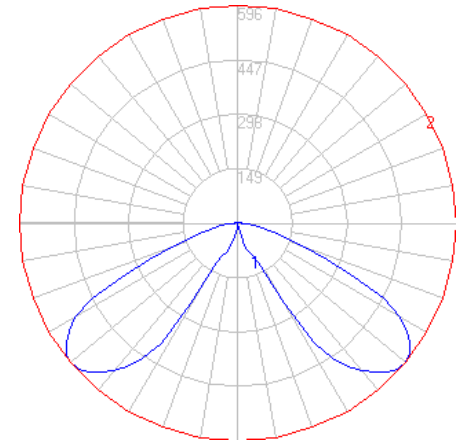


8/21/2019

BEGA

Photometric Filename: 99856K4.ies

TEST: BE_99856K27
 TEST LAB: BEGA
 DATE: 1/10/2017
 LUMINAIRE: 99 856K27
 LAMP: 16.5W LED



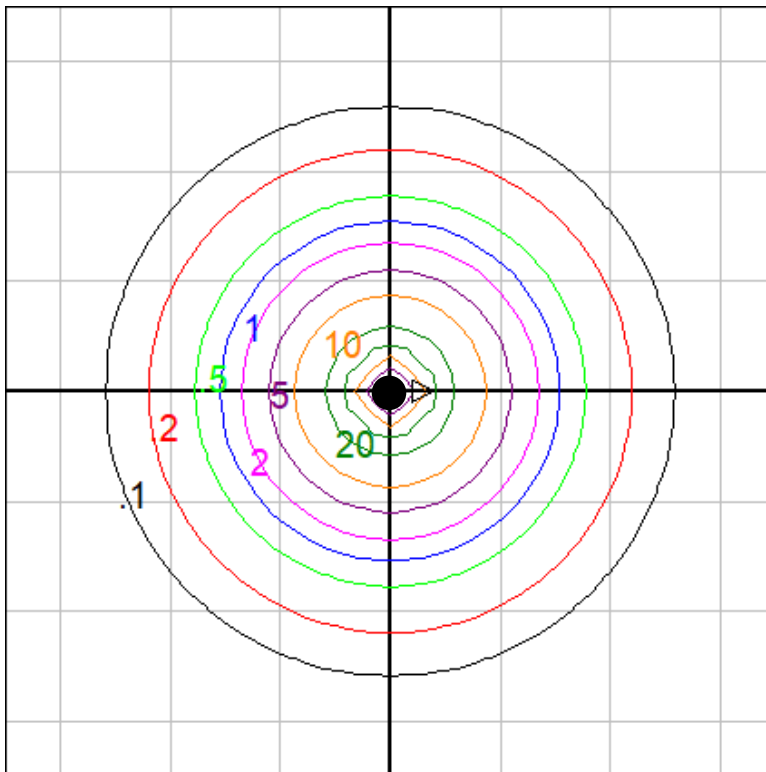
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1581
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	19.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Max. Cd.	512.818 (0H, 50V)
Max. Cd. (<90 Vert.)	512.818 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	8.772 (0.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	56.932 (3.6%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	29.9	N.A.	1.9
FM (30-60)	526.8	N.A.	33.3
FH (60-80)	202.5	N.A.	12.8
FVH(80-90)	13.7	N.A.	0.9
BL (0-30)	29.9	N.A.	1.9
BM (30-60)	526.8	N.A.	33.3
BH (60-80)	202.5	N.A.	12.8
BVH(80-90)	13.7	N.A.	0.9
UL (90-100)	9.5	N.A.	0.6
UH (100-180)	25.2	N.A.	1.6
Total	1580.5	N.A.	100.0

BUG Rating B1-U2-G1??

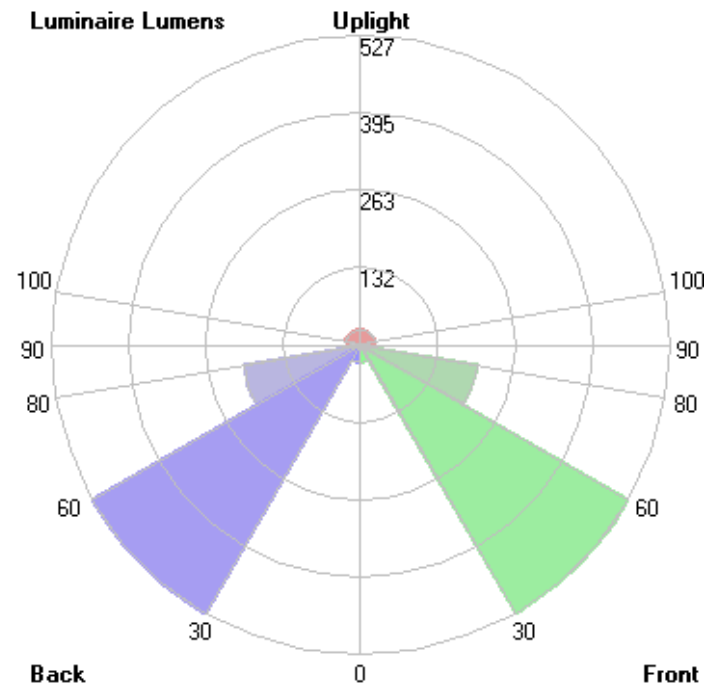


Mounting Height = 3 ft. Grid Spacing = 5 ft.

*Using 99 622 system bollard tube

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

BEGA 1000 Bega Way, Carpinteria, CA 93013 (805)684-0533 Fax (805)566-9474 www.bega-us.com © Copyright BEGA-US 2019



8/21/2019