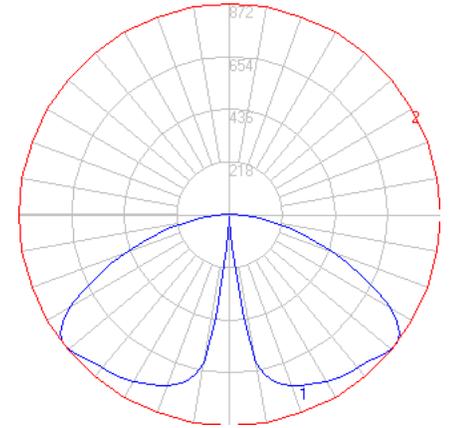
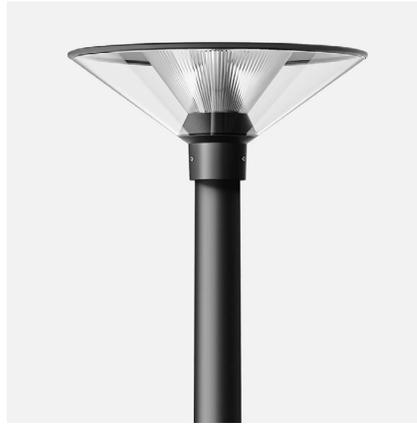


BEGA

File: 84481K4_BEGA_IES.ies

TEST: BE_84481K4
 TEST LAB: BEGA
 DATE: 02/06/2020
 LUMINAIRE: 84481K4
 LAMP: 24W LED



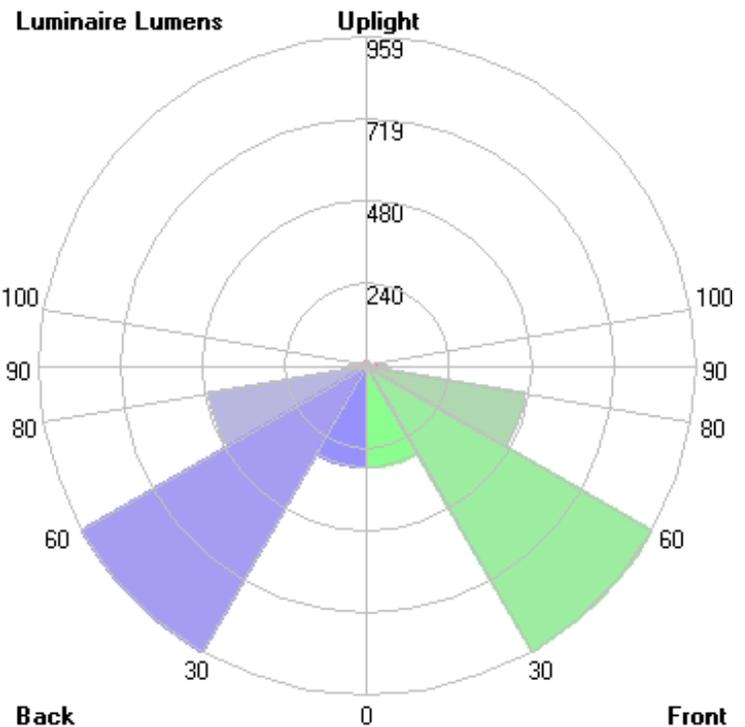
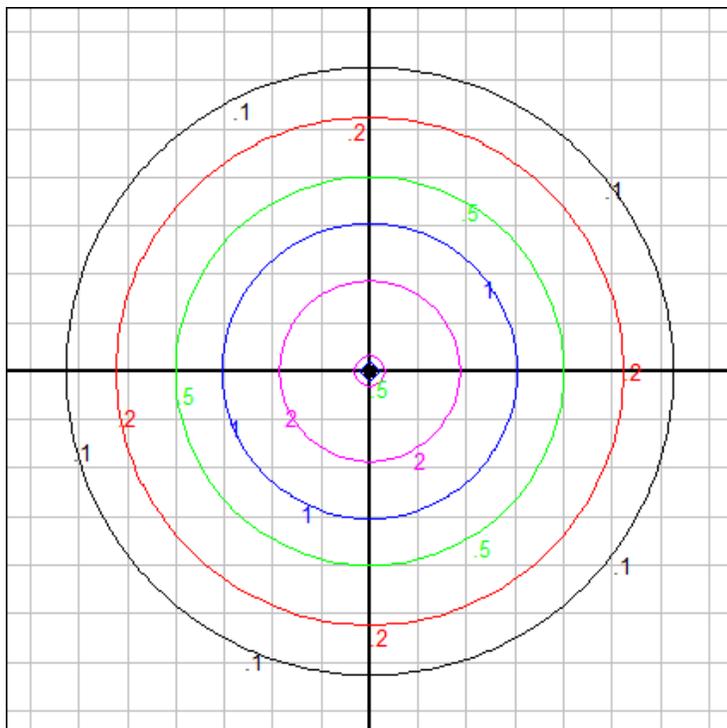
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3600
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	28
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	871.8 (0H, 52.5V)
Max. Cd. (<90 Vert.)	871.8 (0H, 52.5V)
Max. Cd. (At 90 Deg. Vert.)	38.7 (1.1%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	191.4 (5.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	296.1	N.A.	8.2
FM (30-60)	959.0	N.A.	26.6
FH (60-80)	467.4	N.A.	13.0
FVH(80-90)	56.1	N.A.	1.6
BL (0-30)	296.1	N.A.	8.2
BM (30-60)	959.0	N.A.	26.6
BH (60-80)	467.4	N.A.	13.0
BVH(80-90)	56.1	N.A.	1.6
UL (90-100)	30.4	N.A.	0.8
UH (100-180)	12.5	N.A.	0.3
Total	3600.1	N.A.	100.0

BUG Rating B1-U2-G1



Mounting Height: 14 ft.

Grid Spacing: 6 ft.

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

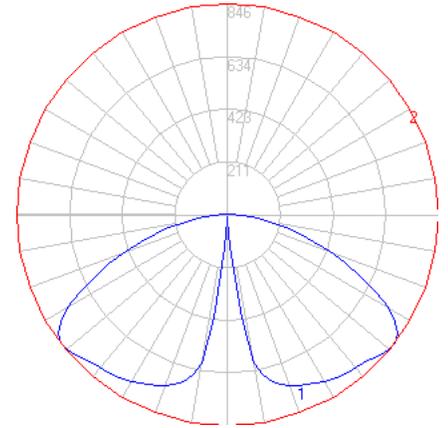
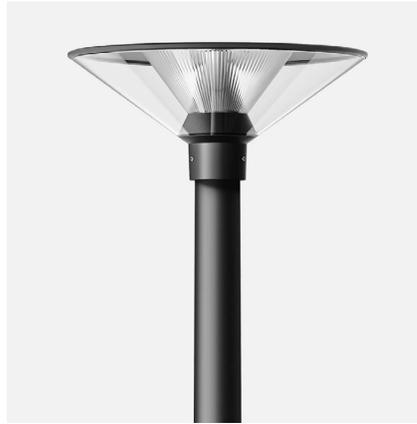
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BEGA

File: 84481K35_BEGA_IES.ies

TEST: BE_84481K4
 TEST LAB: BEGA
 DATE: 02/06/2020
 LUMINAIRE: 84481K35
 LAMP: 24W LED



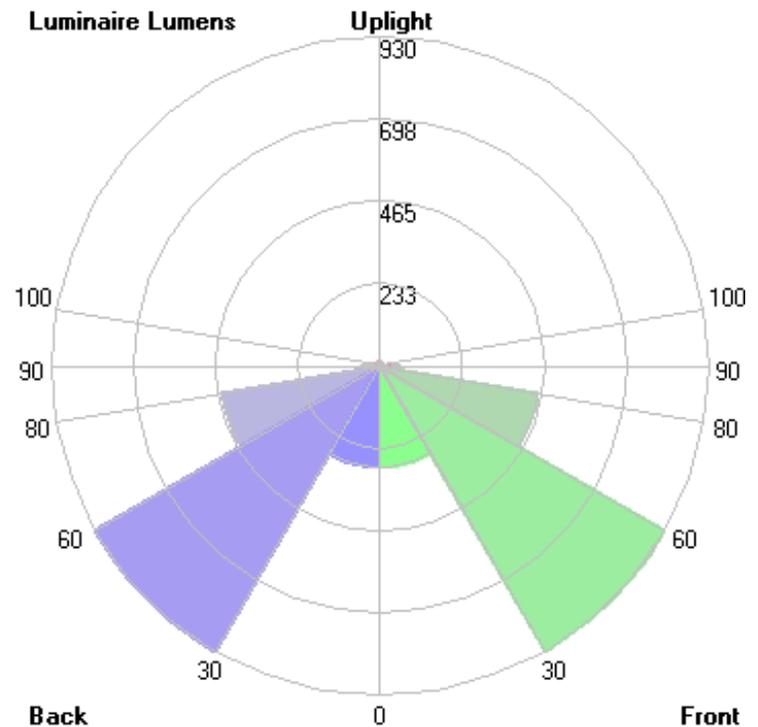
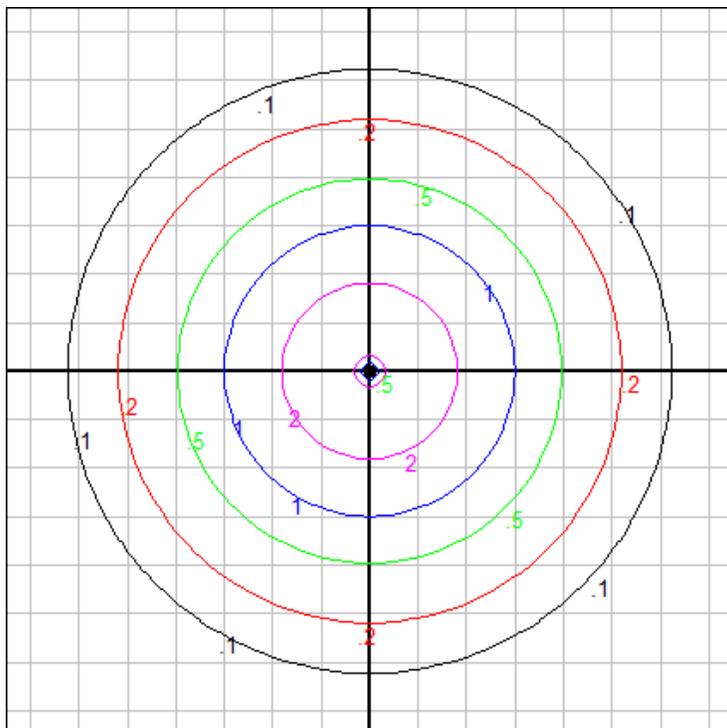
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3492
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	28
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	845.646 (0H, 52.5V)
Max. Cd. (<90 Vert.)	845.646 (0H, 52.5V)
Max. Cd. (At 90 Deg. Vert.)	37.539 (1.1%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	185.658 (5.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	287.2	N.A.	8.2
FM (30-60)	930.2	N.A.	26.6
FH (60-80)	453.4	N.A.	13.0
FVH(80-90)	54.4	N.A.	1.6
BL (0-30)	287.2	N.A.	8.2
BM (30-60)	930.2	N.A.	26.6
BH (60-80)	453.4	N.A.	13.0
BVH(80-90)	54.4	N.A.	1.6
UL (90-100)	29.5	N.A.	0.8
UH (100-180)	12.1	N.A.	0.3
Total	3492.0	N.A.	100.0

BUG Rating B1-U2-G1



Mounting Height: 14 ft.

Grid Spacing: 6 ft.

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

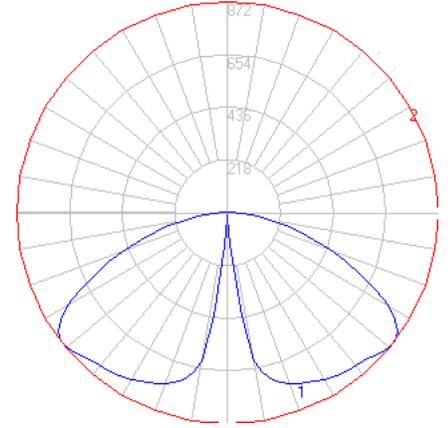
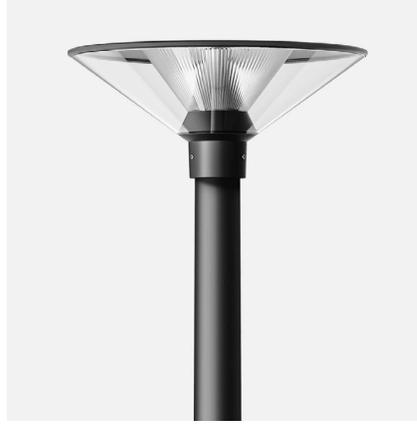
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BEGA

File: 84481K3_BEGA_IES.ies

TEST: BE_84481K4
 TEST LAB: BEGA
 DATE: 02/06/2020
 LUMINAIRE: 84481K3
 LAMP: 24W LED



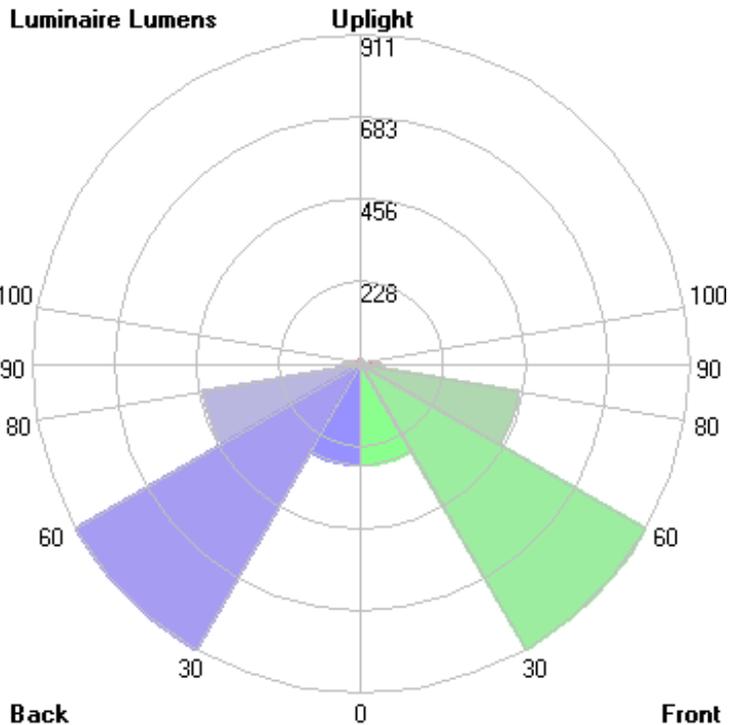
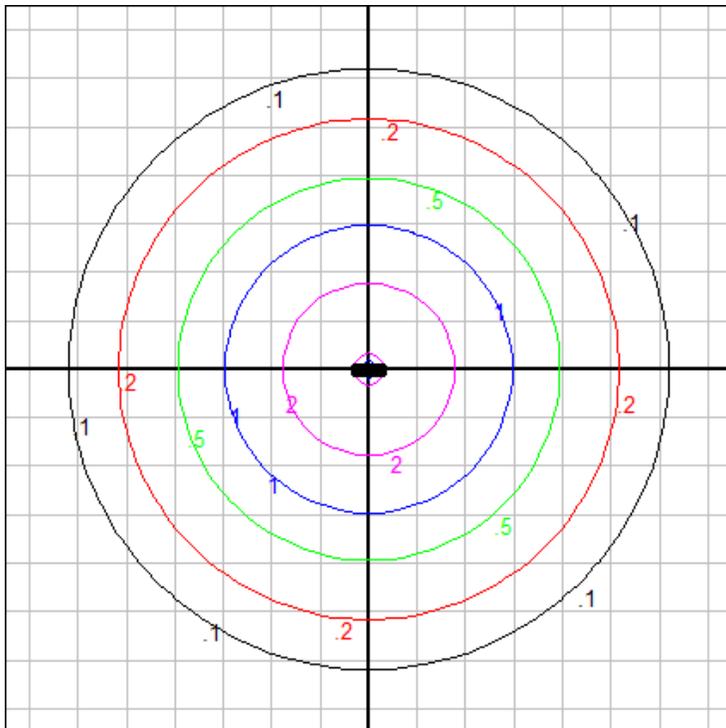
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3420
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	28
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	828.21 (0H, 52.5V)
Max. Cd. (<90 Vert.)	828.21 (0H, 52.5V)
Max. Cd. (At 90 Deg. Vert.)	36.765 (1.1%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	181.83 (5.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	281.3	N.A.	8.2
FM (30-60)	911.1	N.A.	26.6
FH (60-80)	444.1	N.A.	13.0
FVH(80-90)	53.3	N.A.	1.6
BL (0-30)	281.3	N.A.	8.2
BM (30-60)	911.1	N.A.	26.6
BH (60-80)	444.1	N.A.	13.0
BVH(80-90)	53.3	N.A.	1.6
UL (90-100)	28.9	N.A.	0.8
UH (100-180)	11.9	N.A.	0.3
Total	3420.4	N.A.	100.0

BUG Rating B1-U2-G1



Mounting Height: 14 ft.

Grid Spacing: 6 ft.

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

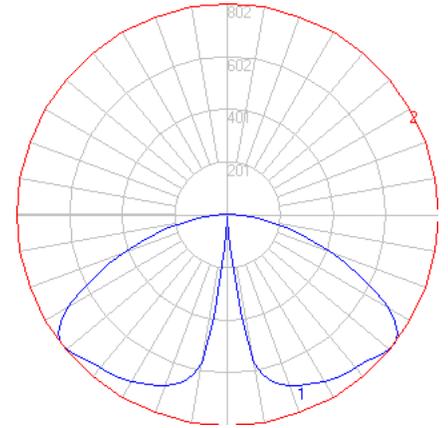
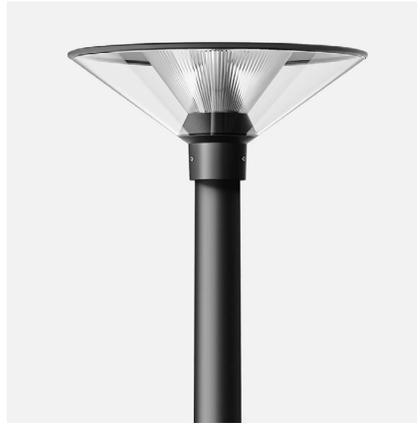
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BEGA

File: 84481K27_BEGA_IES.ies

TEST: BE_84481K4
 TEST LAB: BEGA
 DATE: 02/06/2020
 LUMINAIRE: 84481K27
 LAMP: 24W LED



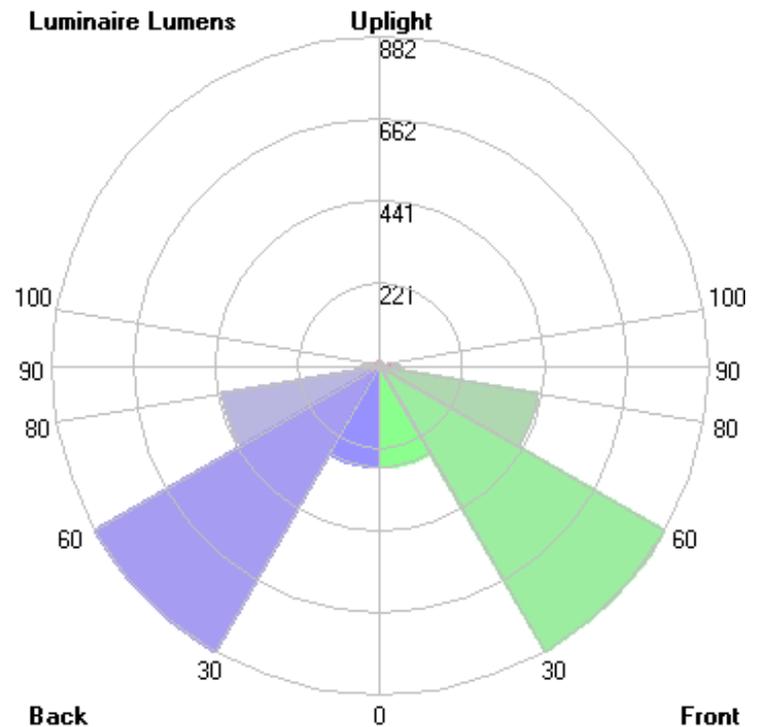
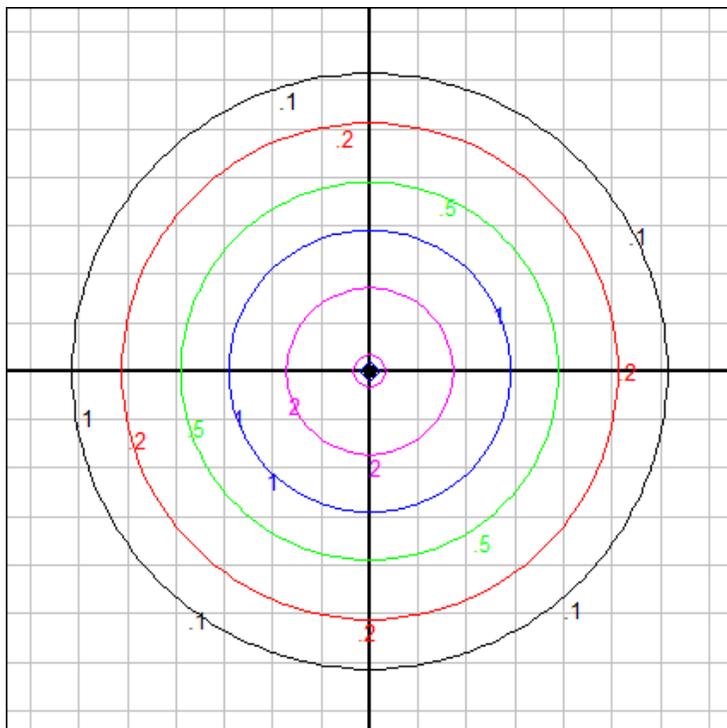
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3312
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	28
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	802.056 (0H, 52.5V)
Max. Cd. (<90 Vert.)	802.056 (0H, 52.5V)
Max. Cd. (At 90 Deg. Vert.)	35.604 (1.1%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	176.088 (5.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	272.1	N.A.	8.2
FM (30-60)	882.3	N.A.	26.6
FH (60-80)	430.0	N.A.	13.0
FVH(80-90)	51.6	N.A.	1.6
BL (0-30)	272.4	N.A.	8.2
BM (30-60)	882.3	N.A.	26.6
BH (60-80)	430.0	N.A.	13.0
BVH(80-90)	51.6	N.A.	1.6
UL (90-100)	28.0	N.A.	0.8
UH (100-180)	11.5	N.A.	0.3
Total	3312.1	N.A.	100.0

BUG Rating B1-U2-G1



Mounting Height: 14 ft.

Grid Spacing: 6 ft.

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