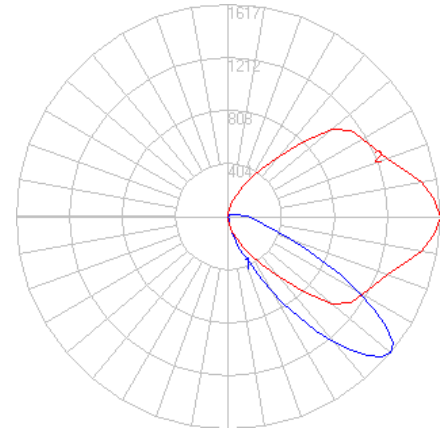
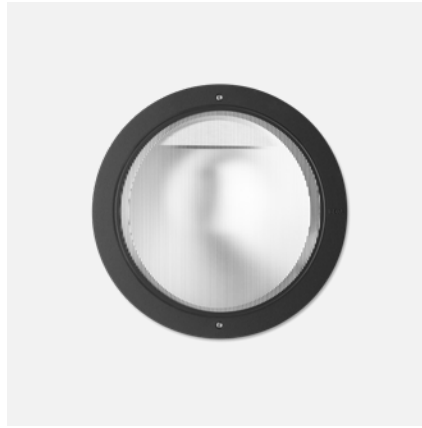


BEGA

File: 24112K4_BEGA_IES.ies

TEST: BE_24112K4
TEST LAB: BEGA
DATE: 3/29/2016
LUMINAIRE: 24 112K4
LAMP: 16.3W LED



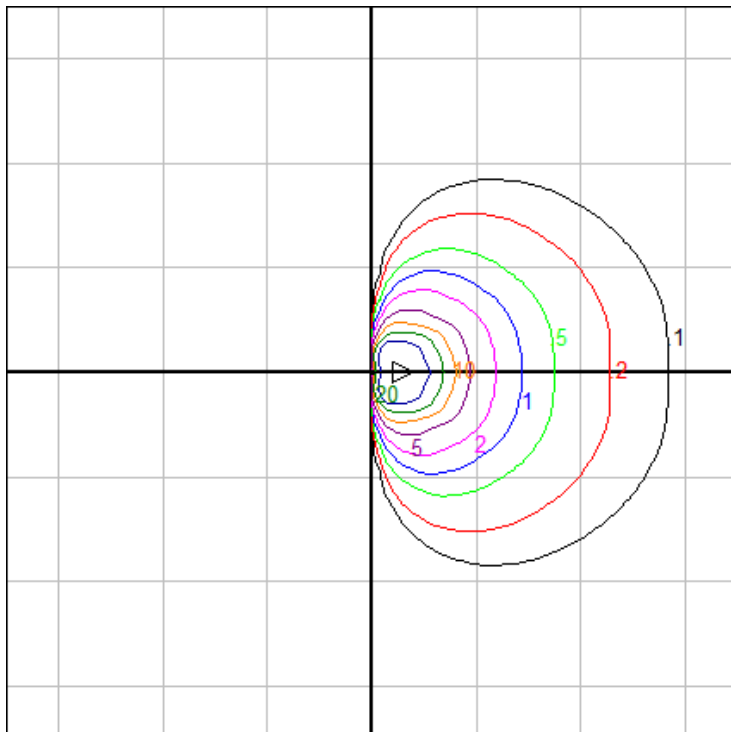
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1257
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	20
Ballast Factor	1.00
Upward Waste Light Ratio	0.06
Max. Cd.	1616.6 (0H, 50V)
Max. Cd. (<90 Vert.)	1616.6 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	167.7 (13.3%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	241.3 (19.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

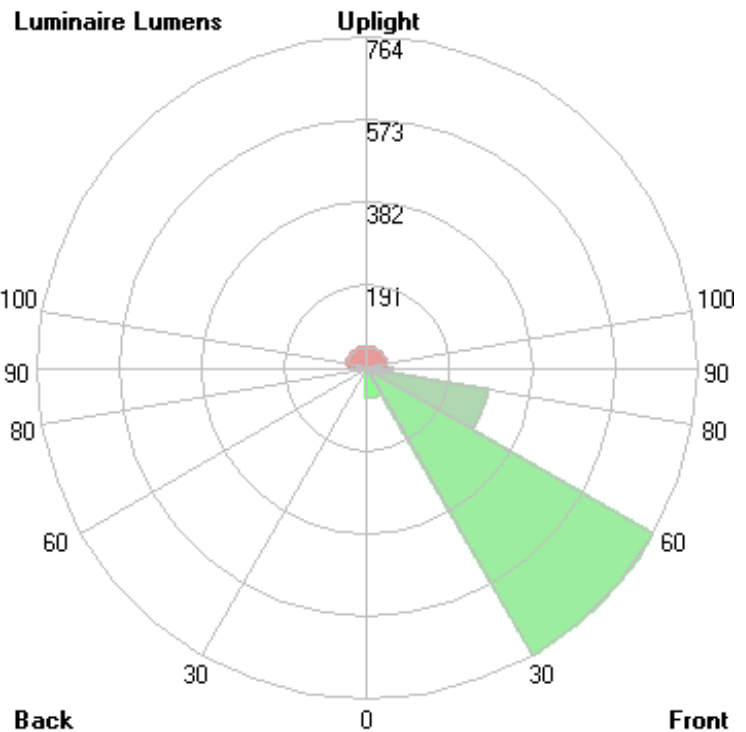
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	69.2	N.A.	5.5
FM (30-60)	764.1	N.A.	60.8
FH (60-80)	283.4	N.A.	22.6
FVH (80-90)	59.2	N.A.	4.7
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	33.1	N.A.	2.6
UH (100-180)	47.5	N.A.	3.8
Total	1256.5	N.A.	100.0

BUG Rating B0-U2-G1



Mounting Height: 1.5 ft.

Grid Spacing: 5 ft.



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

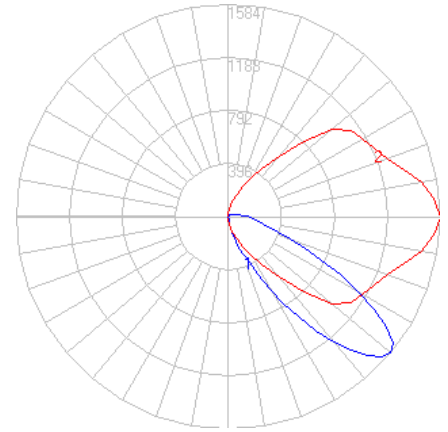
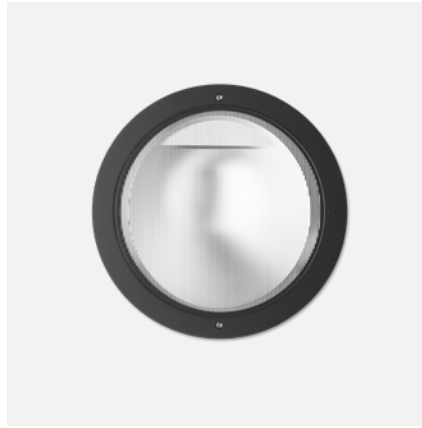
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BEGA

File: 24112K35_BEGA_IES.ies

TEST: BE_24112K4
TEST LAB: BEGA
DATE: 3/29/2016
LUMINAIRE: 24 112K35
LAMP: 16.3W LED



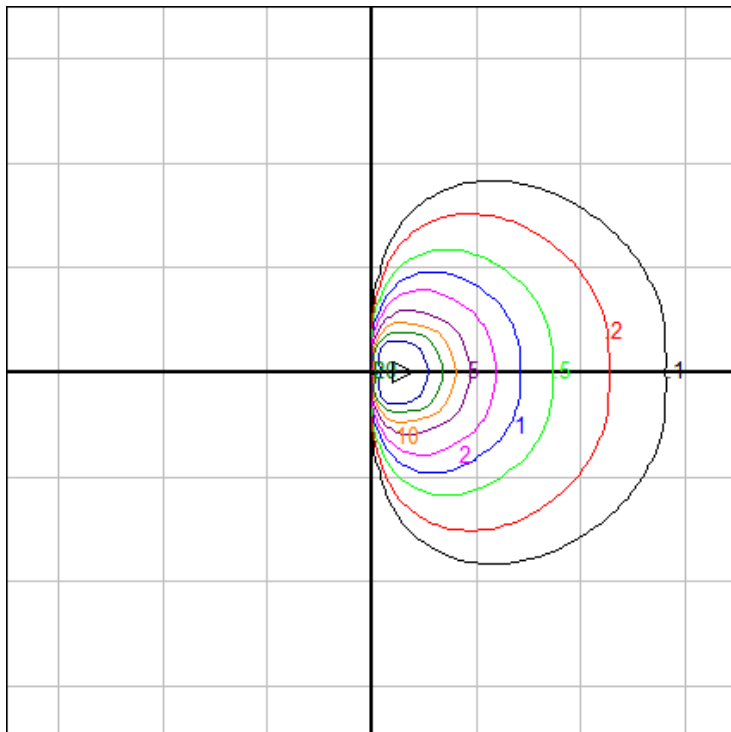
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1231
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	20
Ballast Factor	1.00
Upward Waste Light Ratio	0.06
Max. Cd.	1584.268 (0H, 50V)
Max. Cd. (<90 Vert.)	1584.268 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	164.346 (13.4%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	236.474 (19.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

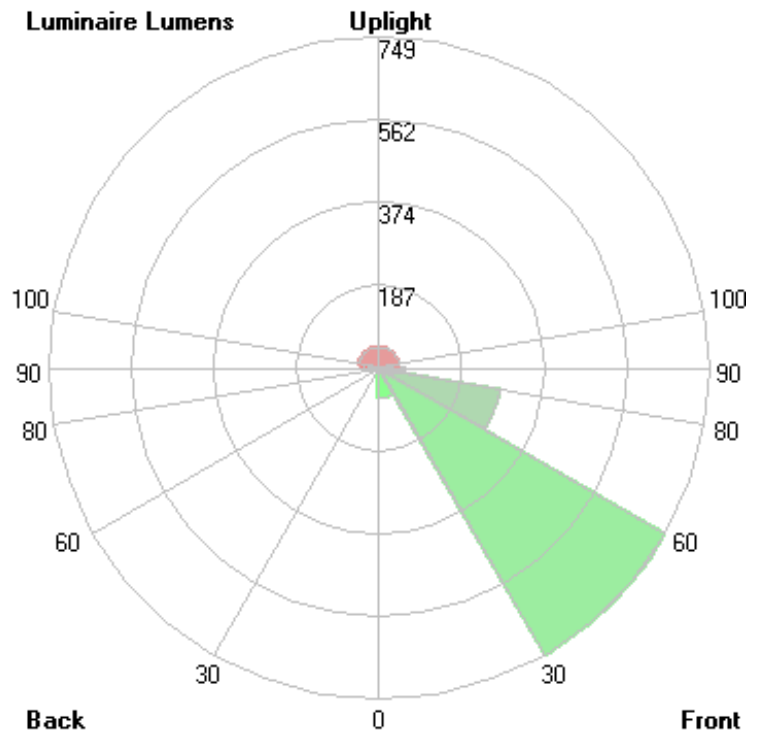
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	67.8	N.A.	5.5
FM (30-60)	748.8	N.A.	60.8
FH (60-80)	277.8	N.A.	22.6
FVH (80-90)	58.0	N.A.	4.7
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	32.5	N.A.	2.6
UH (100-180)	46.5	N.A.	3.8
Total	1231.4	N.A.	100.0

BUG Rating B0-U2-G1



Mounting Height: 1.5 ft.

Grid Spacing: 5 ft.



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

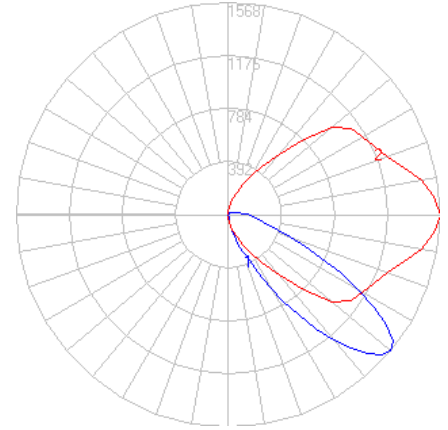
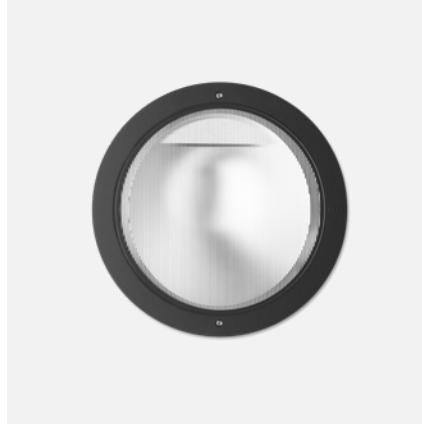
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BEGA

File: 24112K3_BEGA_IES.ies

TEST: BE_24112K4
TEST LAB: BEGA
DATE: 3/29/2016
LUMINAIRE: 24 112K3
LAMP: 16.3W LED



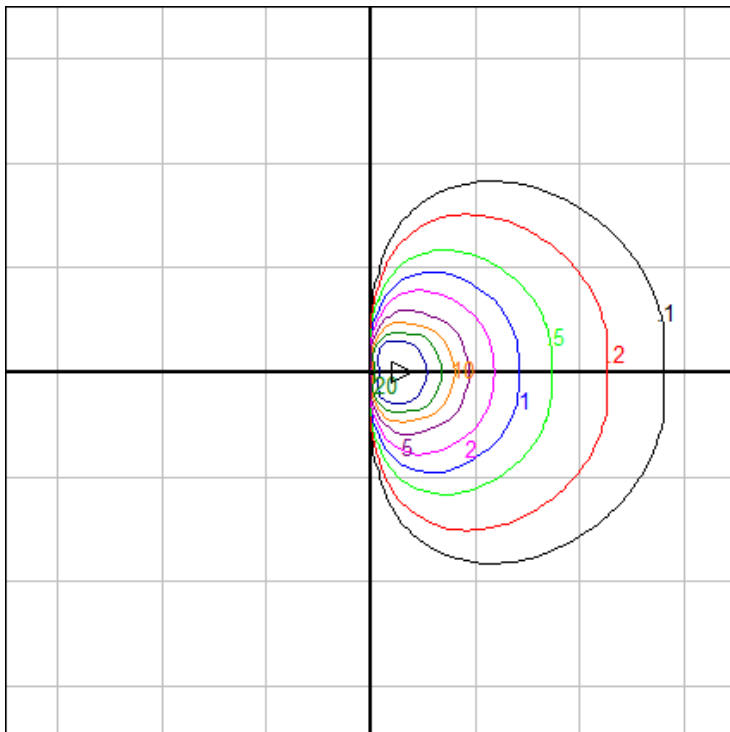
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1219
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	20
Ballast Factor	1.00
Upward Waste Light Ratio	0.06
Max. Cd.	1568.102 (0H, 50V)
Max. Cd. (<90 Vert.)	1568.102 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	162.669 (13.3%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	234.061 (19.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

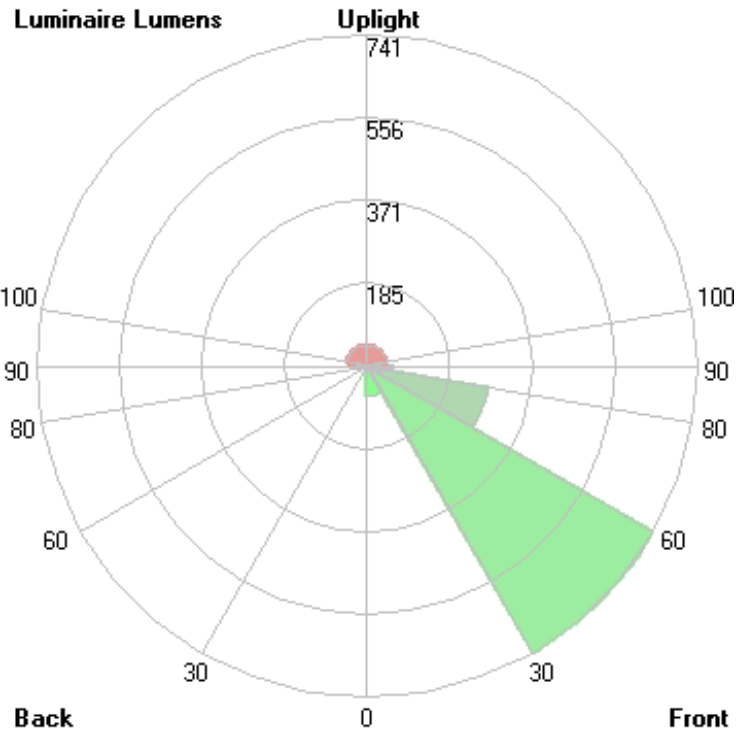
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	67.1	N.A.	5.5
FM (30-60)	741.2	N.A.	60.8
FH (60-80)	274.9	N.A.	22.6
FVH (80-90)	57.4	N.A.	4.7
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	32.1	N.A.	2.6
UH (100-180)	46.0	N.A.	3.8
Total	1218.7	N.A.	100.0

BUG Rating B0-U2-G1



Mounting Height: 1.5 ft.

Grid Spacing: 5 ft.



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

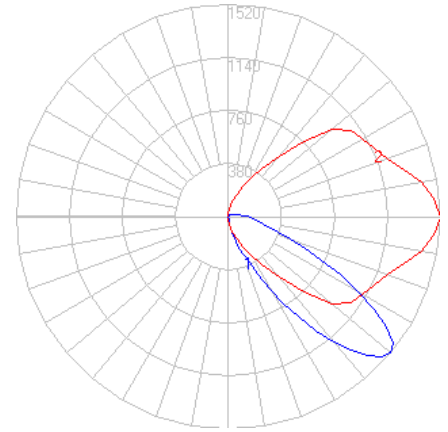
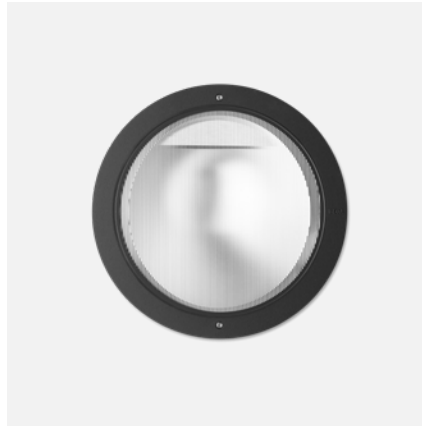
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BEGA

File: 24112K27_BEGA_IES.ies

TEST: BE_24112K4
TEST LAB: BEGA
DATE: 3/29/2016
LUMINAIRE: 24 112K27
LAMP: 16.3W LED



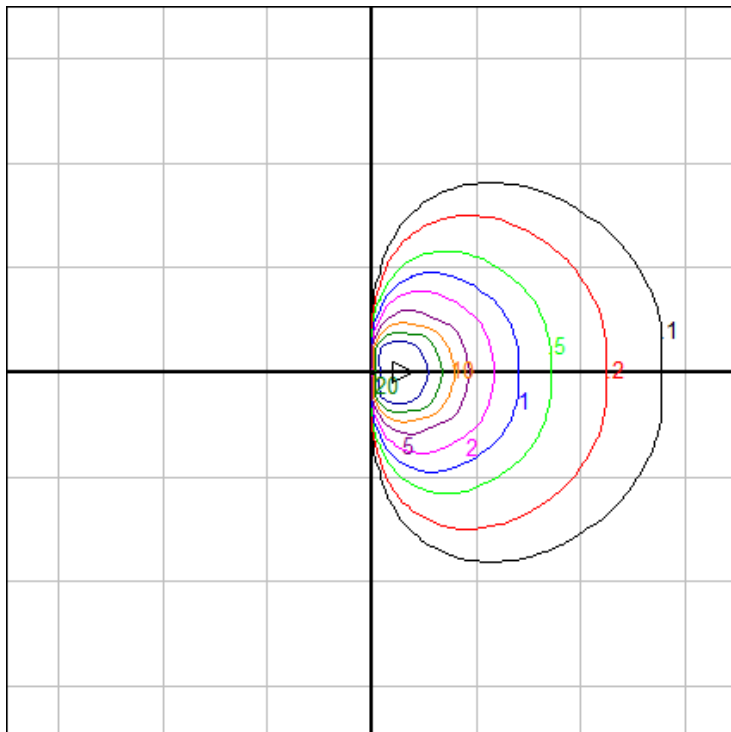
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1181
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	20
Ballast Factor	1.00
Upward Waste Light Ratio	0.06
Max. Cd.	1519.604 (0H, 50V)
Max. Cd. (<90 Vert.)	1519.604 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	157.638 (13.3%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	226.822 (19.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

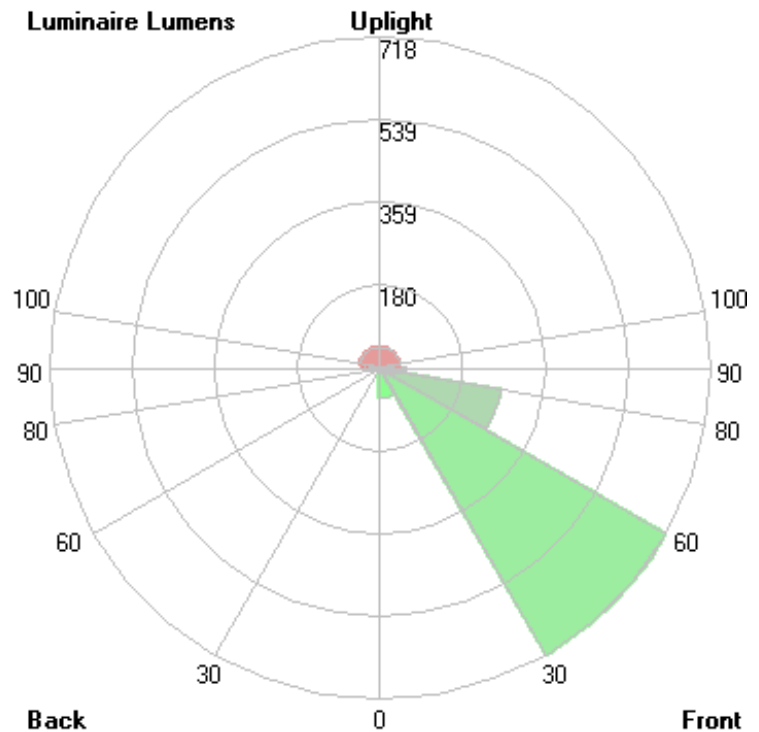
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	65.1	N.A.	5.5
FM (30-60)	718.3	N.A.	60.8
FH (60-80)	266.4	N.A.	22.6
FVH (80-90)	55.6	N.A.	4.7
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	31.2	N.A.	2.6
UH (100-180)	44.6	N.A.	3.8
Total	1181.2	N.A.	100.0

BUG Rating **B0-U2-G1**



Mounting Height: 1.5 ft.

Grid Spacing: 5 ft.



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