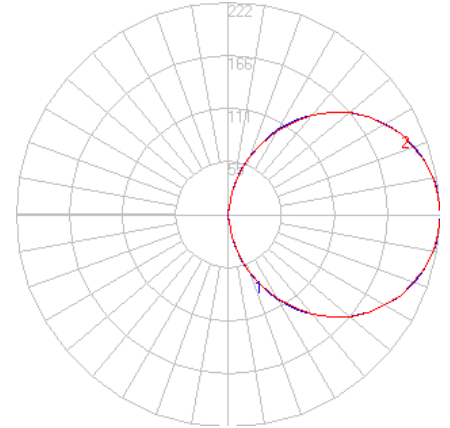
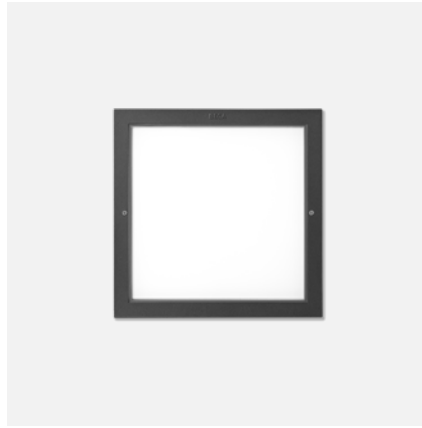


BEGA

File: 33297K4_BEGA_IES.ies

TEST: BE_33297K4
TEST LAB: BEGA
DATE: 2/1/2017
LUMINAIRE: 33 297K4
LAMP: 5.6W LED



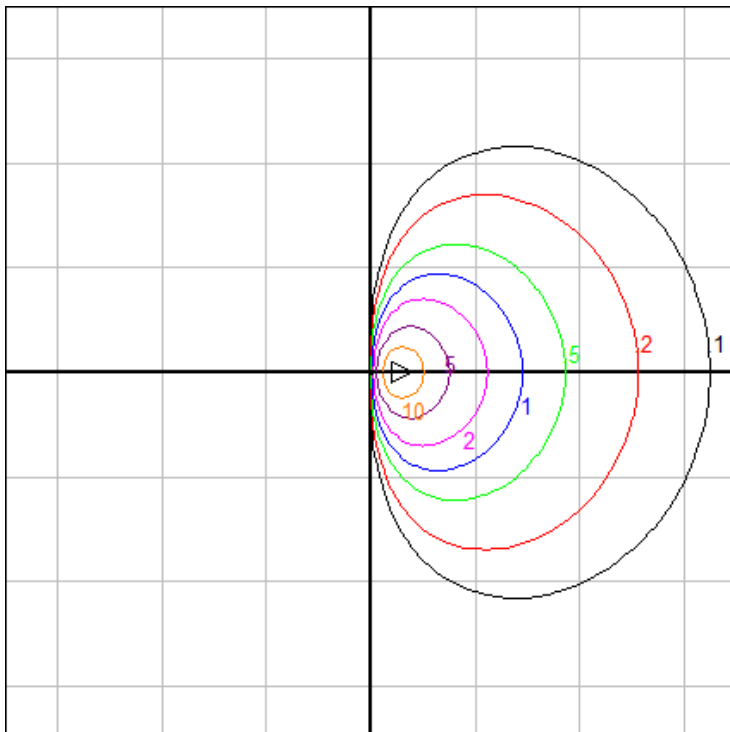
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	643
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	8
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	221.5 (0H, 90V)
Max. Cd. (<90 Vert.)	221.2 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	221.5 (34.4%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	221.2 (34.4%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

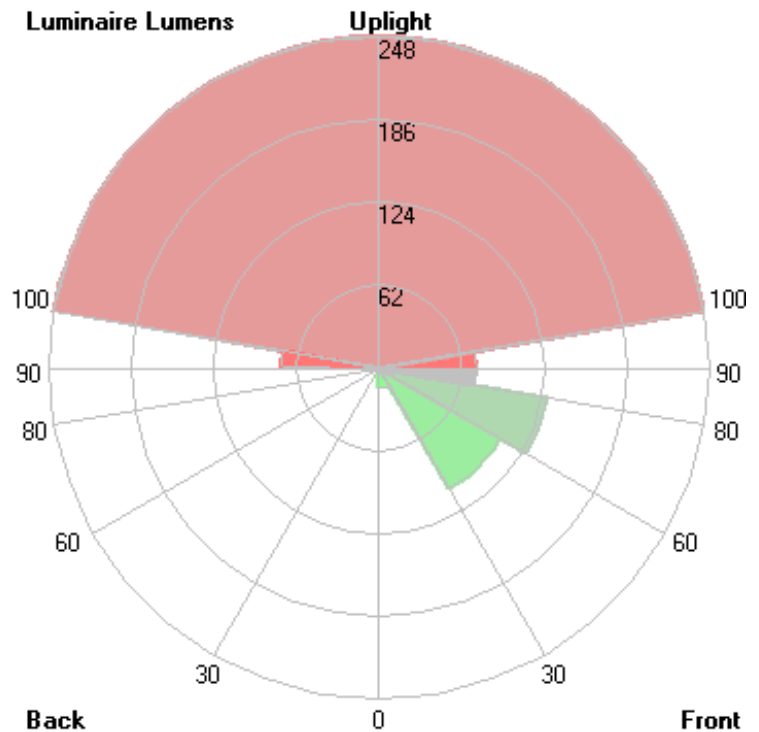
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	14.9	N.A.	2.3
FM (30-60)	105.2	N.A.	16.4
FH (60-80)	128.2	N.A.	19.9
FVH (80-90)	73.1	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	73.1	N.A.	11.4
UH (100-180)	248.4	N.A.	38.6
Total	642.9	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



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

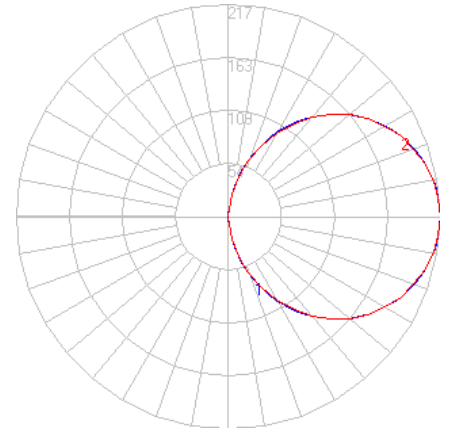
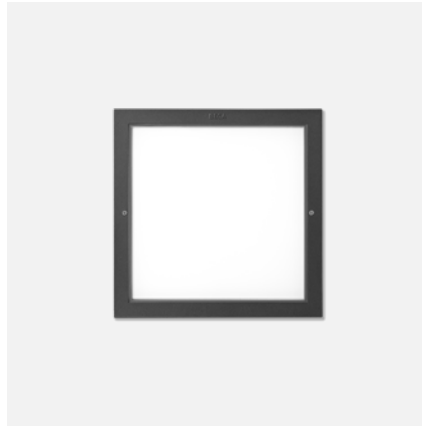
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BEGA

File: 33297K35_BEGA_IES.ies

TEST: BE_33297K4
 TEST LAB: BEGA
 DATE: 2/1/2017
 LUMINAIRE: 33 297K35
 LAMP: 5.6W LED



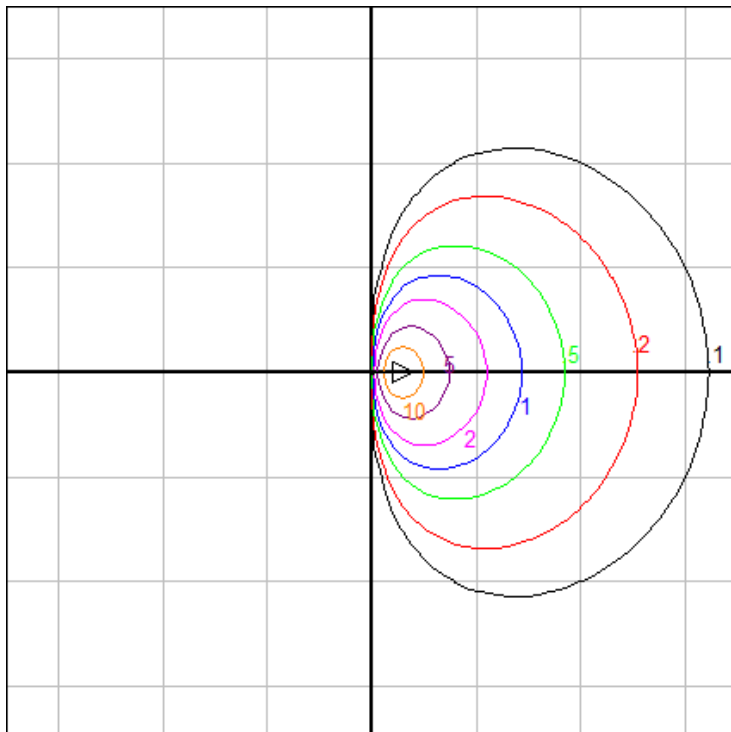
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	630
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	8
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	217.07 (0H, 90V)
Max. Cd. (<90 Vert.)	216.776 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	217.07 (34.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	216.776 (34.4%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

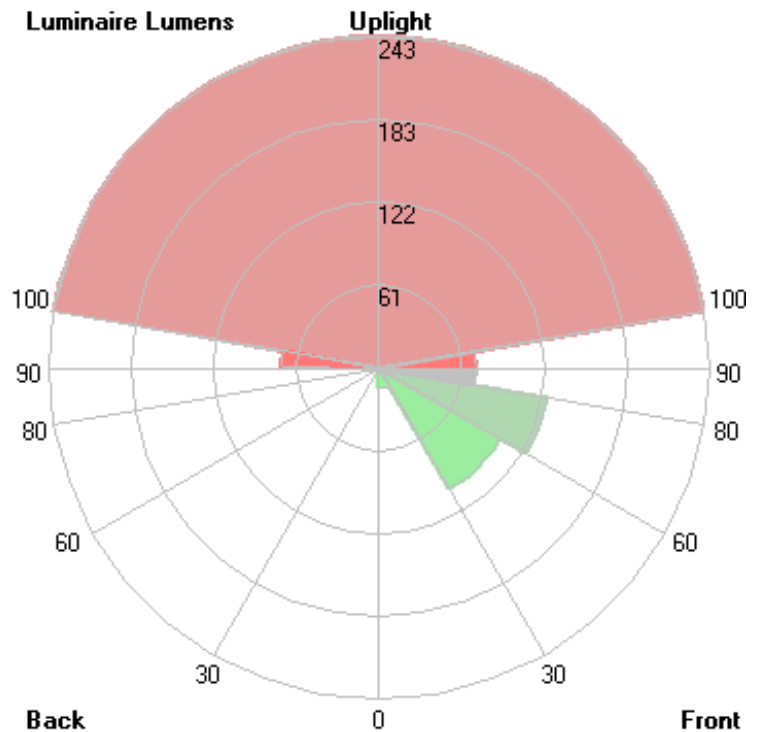
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	14.6	N.A.	2.3
FM (30-60)	103.1	N.A.	16.4
FH (60-80)	125.6	N.A.	19.9
FVH (80-90)	71.6	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	71.6	N.A.	11.4
UH (100-180)	243.4	N.A.	38.6
Total	629.9	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



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

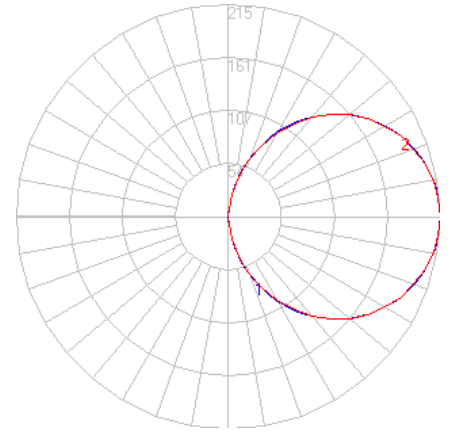
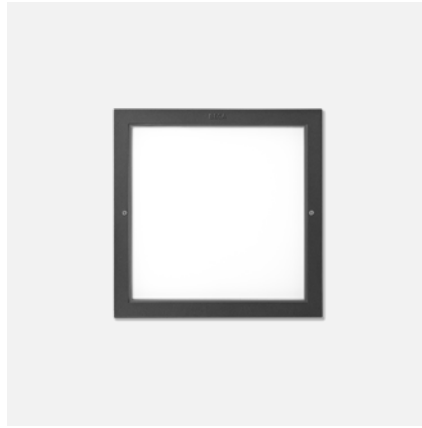
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BEGA

File: 33297K3_BEGA_IES.ies

TEST: BE_33297K4
TEST LAB: BEGA
DATE: 2/1/2017
LUMINAIRE: 33 297K3
LAMP: 5.6W LED



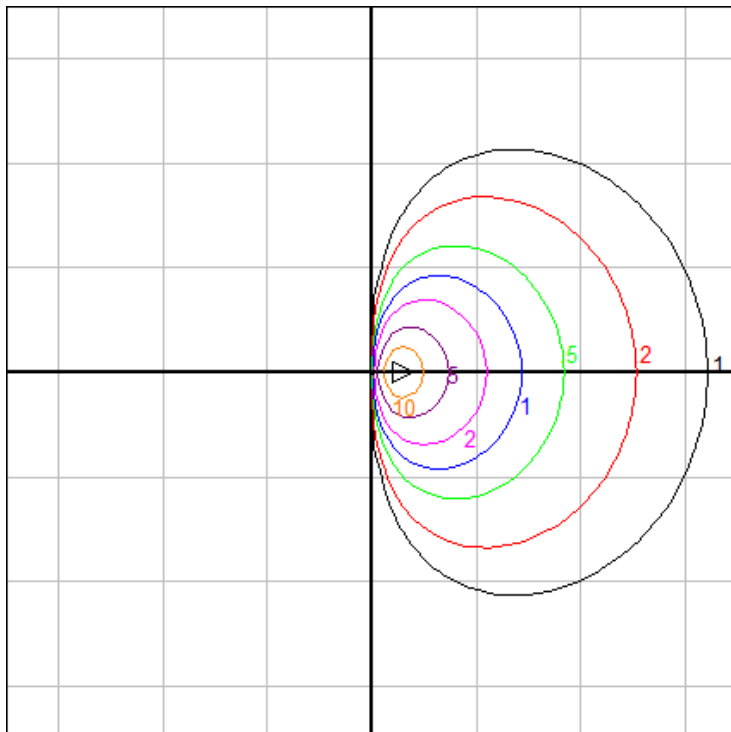
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	624
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	8
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	214.855 (0H, 90V)
Max. Cd. (<90 Vert.)	214.564 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	214.855 (34.4%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	214.564 (34.4%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

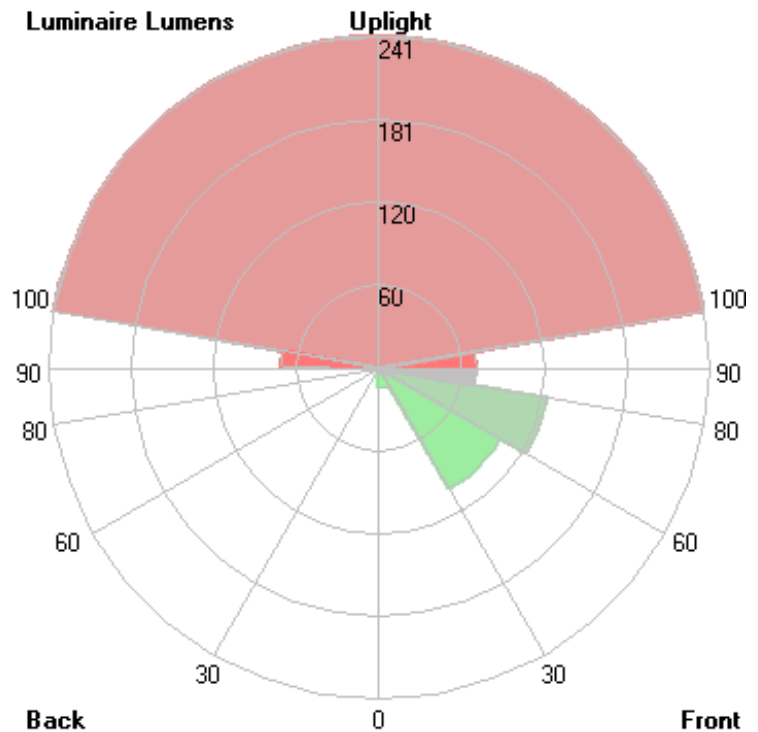
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	14.5	N.A.	2.3
FM (30-60)	102.1	N.A.	16.4
FH (60-80)	124.3	N.A.	19.9
FVH (80-90)	70.9	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	70.9	N.A.	11.4
UH (100-180)	240.9	N.A.	38.6
Total	623.6	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



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

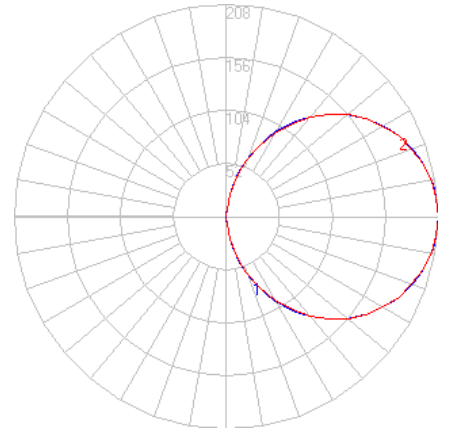
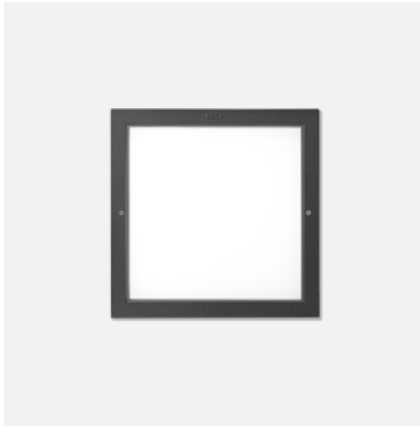
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BEGA

File: 33297K27_BEGA_IES.ies

TEST: BE_33297K4
TEST LAB: BEGA
DATE: 2/1/2017
LUMINAIRE: 33 297K27
LAMP: 5.6W LED



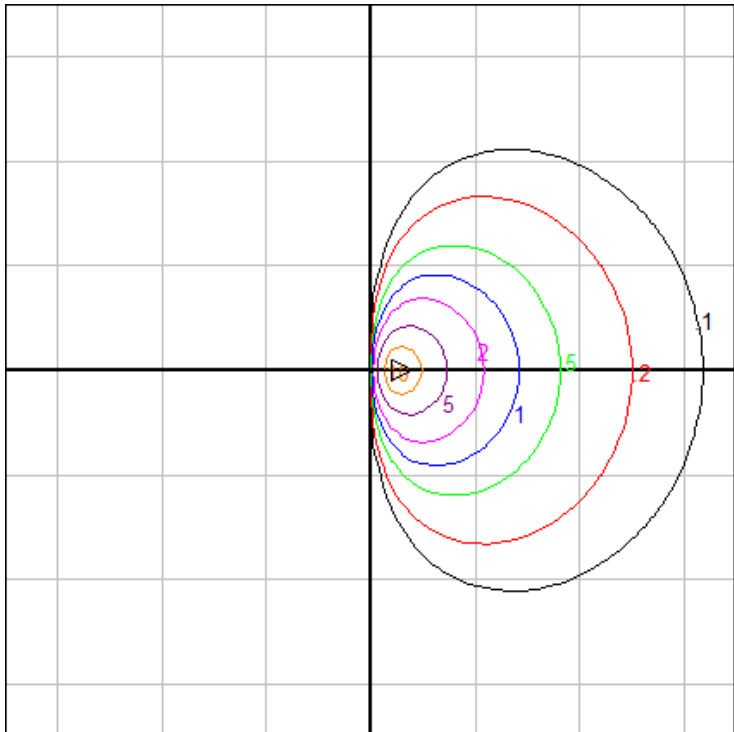
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	604
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	8
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	208.21 (0H, 90V)
Max. Cd. (<90 Vert.)	207.928 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	208.21 (34.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	207.928 (34.4%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

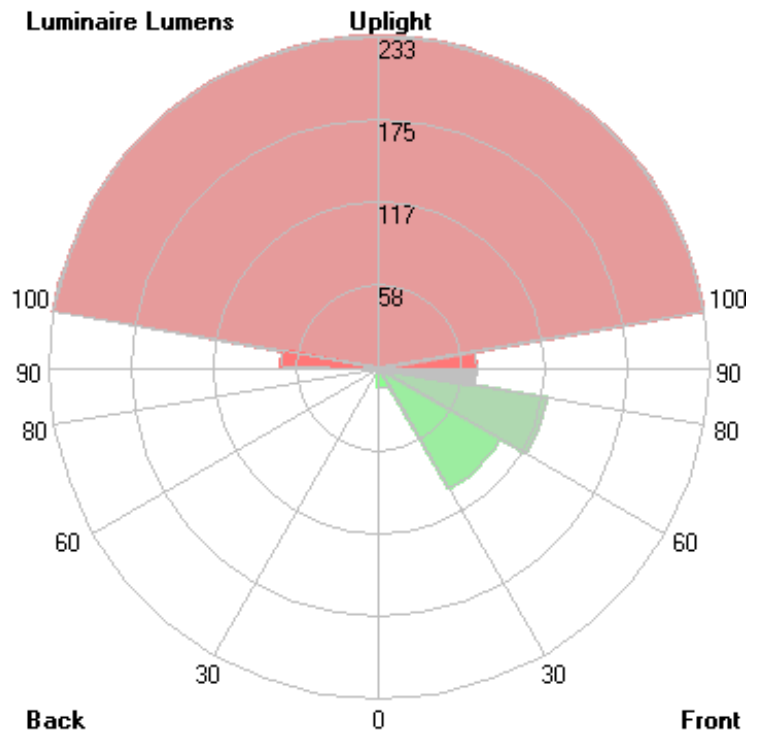
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	14.0	N.A.	2.3
FM (30-60)	98.9	N.A.	16.4
FH (60-80)	120.5	N.A.	19.9
FVH (80-90)	68.7	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	68.7	N.A.	11.4
UH (100-180)	233.5	N.A.	38.6
Total	604.3	N.A.	100.0

BUG Rating **B0-U3-G1**



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



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