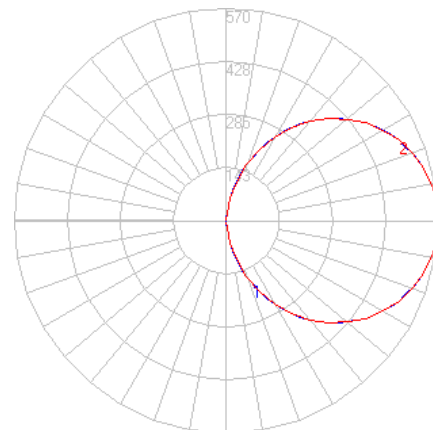
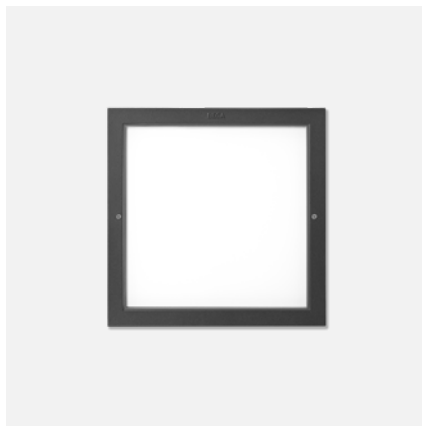


# BEGA

File: 24217K4\_BEGA\_IES.ies

TEST: BE\_24217K4  
 TEST LAB: BEGA  
 DATE: 4/26/2017  
 LUMINAIRE: 24 217K4  
 LAMP: 19.2W LED



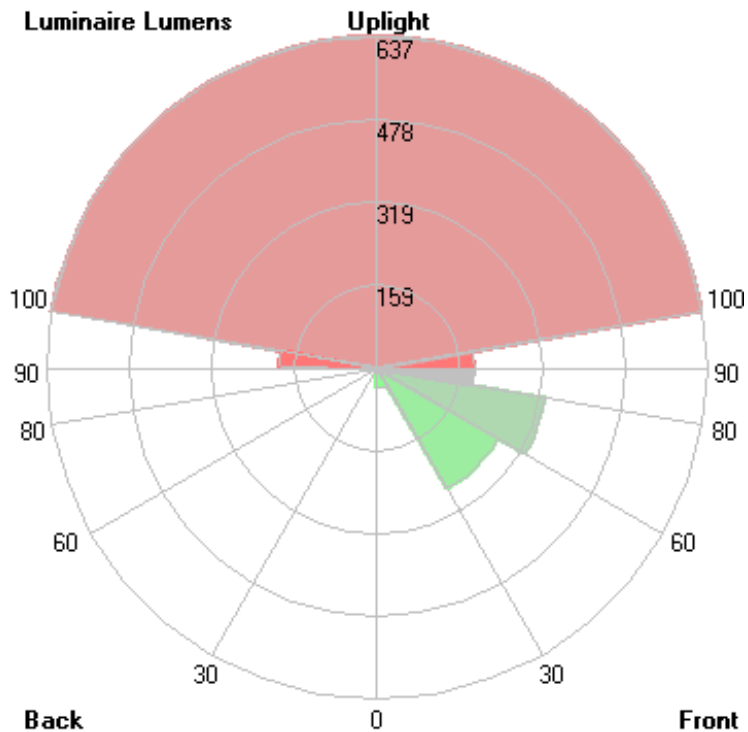
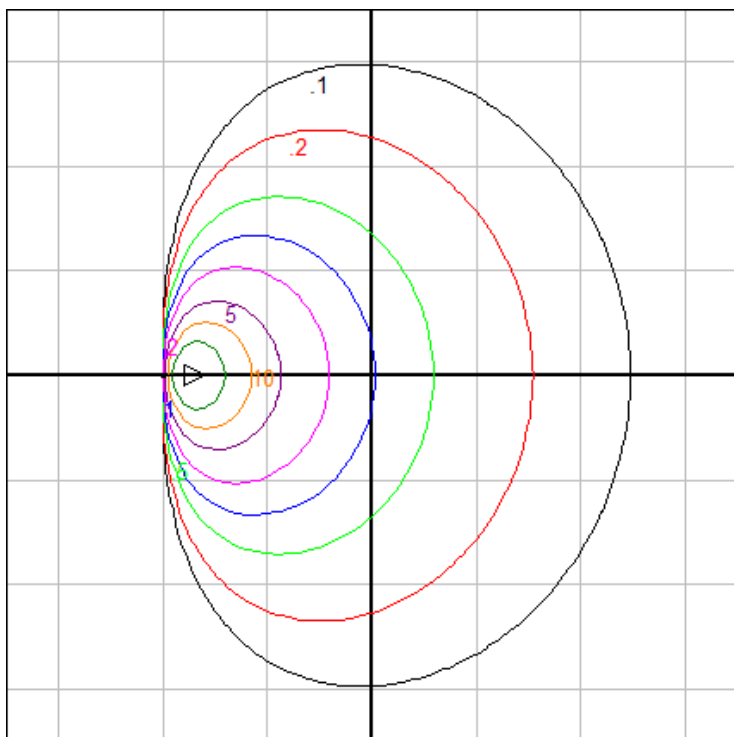
### Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1650
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	23
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	570.3 (0H, 90V)
Max. Cd. (<90 Vert.)	570.2 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	570.3 (34.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	570.2 (34.6%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

### Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	38.1	N.A.	2.3
FM (30-60)	269.8	N.A.	16.3
FH (60-80)	329.4	N.A.	20.0
FVH (80-90)	187.9	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)	187.9	N.A.	11.4
UH (100-180)	637.3	N.A.	38.6
Total	1650.4	N.A.	100.0

**BUG Rating B0-U4-G2**



Mounting Height: 2 ft.

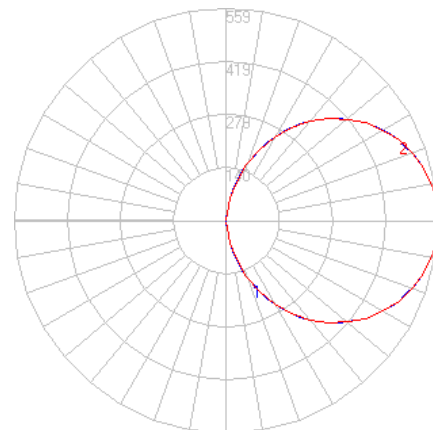
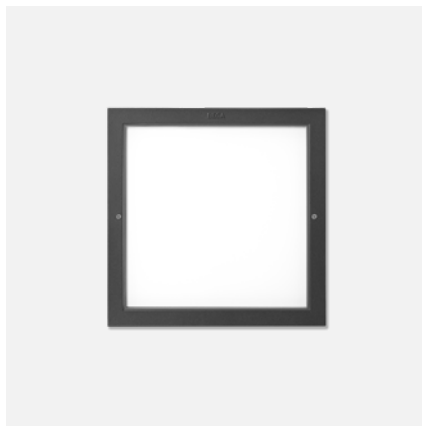
Grid Spacing: 5 ft.

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

# BEGA

File: 24217K35\_BEGA\_IES.ies

TEST: BE\_24217K4  
 TEST LAB: BEGA  
 DATE: 4/26/2017  
 LUMINAIRE: 24 217K35  
 LAMP: 19.2W LED



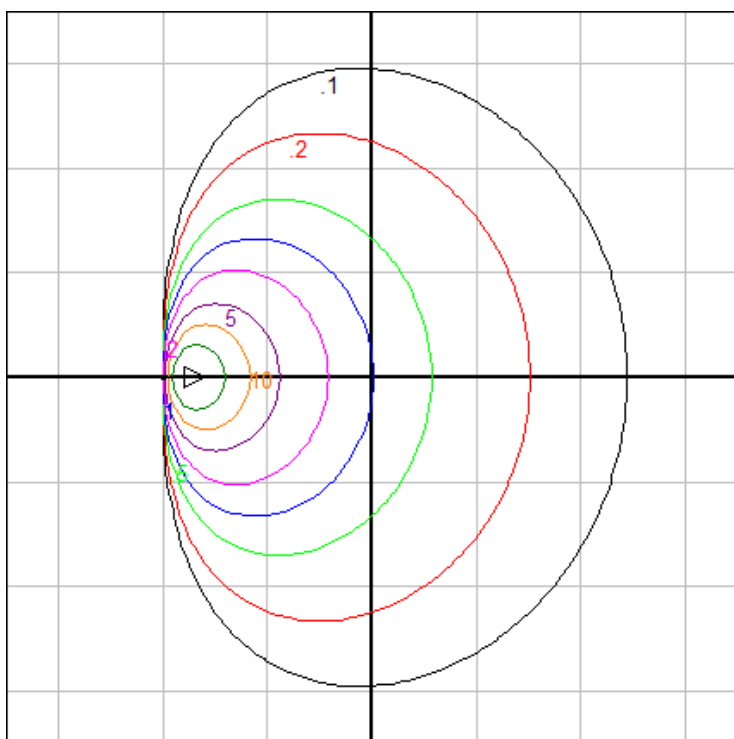
### Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1617
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	23
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	558.894 (0H, 90V)
Max. Cd. (<90 Vert.)	558.796 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	558.894 (34.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	558.796 (34.6%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

### Lum. Classification System (LCS)

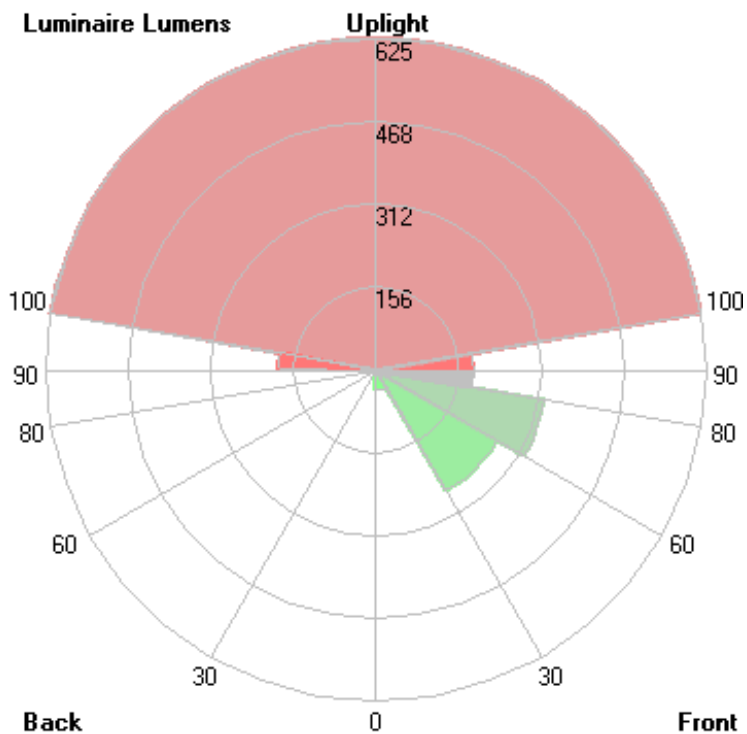
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	37.3	N.A.	2.3
FM (30-60)	264.4	N.A.	16.3
FH (60-80)	322.8	N.A.	20.0
FVH (80-90)	184.1	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	184.1	N.A.	11.4
UH (100-180)	624.6	N.A.	38.6
Total	1617.3	N.A.	100.0

**BUG Rating B0-U4-G2**



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



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

# BEGA

File: 24217K3\_BEGA\_IES.ies

TEST: BE\_24217K4  
 TEST LAB: BEGA  
 DATE: 4/26/2017  
 LUMINAIRE: 24 217K3  
 LAMP: 19.2W LED



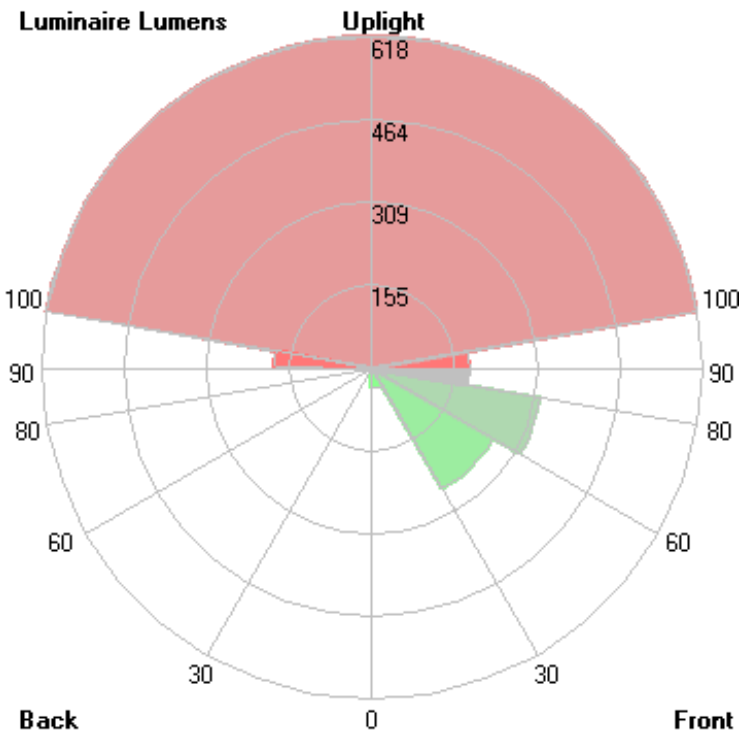
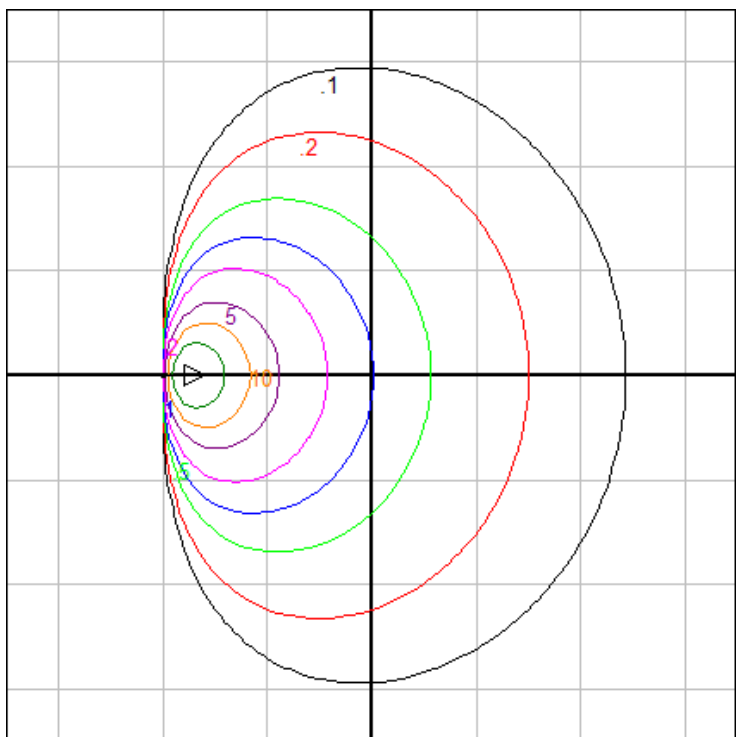
### Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1601
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	23
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	553.191 (0H, 90V)
Max. Cd. (<90 Vert.)	553.094 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	553.191 (34.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	553.094 (34.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

### Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	36.9	N.A.	2.3
FM (30-60)	261.7	N.A.	16.4
FH (60-80)	319.5	N.A.	20.0
FVH (80-90)	182.2	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)	182.2	N.A.	11.4
UH (100-180)	618.2	N.A.	38.6
Total	1600.7	N.A.	100.0

**BUG Rating B0-U4-G2**



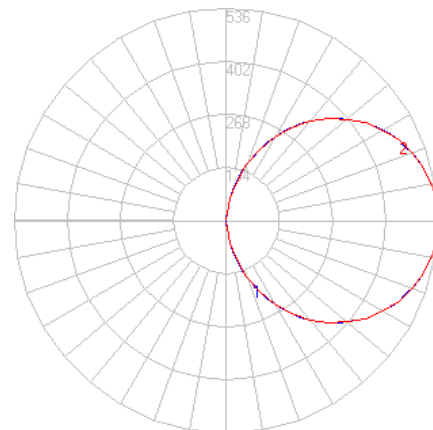
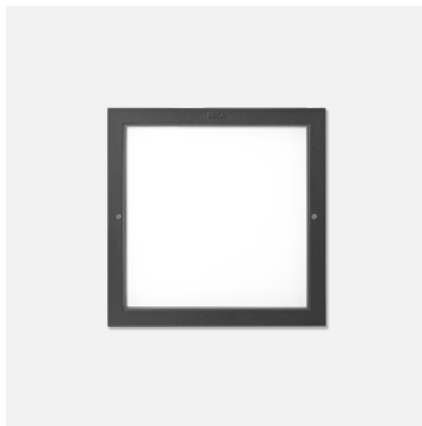
Mounting Height: 2 ft.      Grid Spacing: 5 ft.

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

# BEGA

File: 24217K27\_BEGA\_IES.ies

TEST: BE\_24217K4  
 TEST LAB: BEGA  
 DATE: 4/26/2017  
 LUMINAIRE: 24 217K27  
 LAMP: 19.2W LED



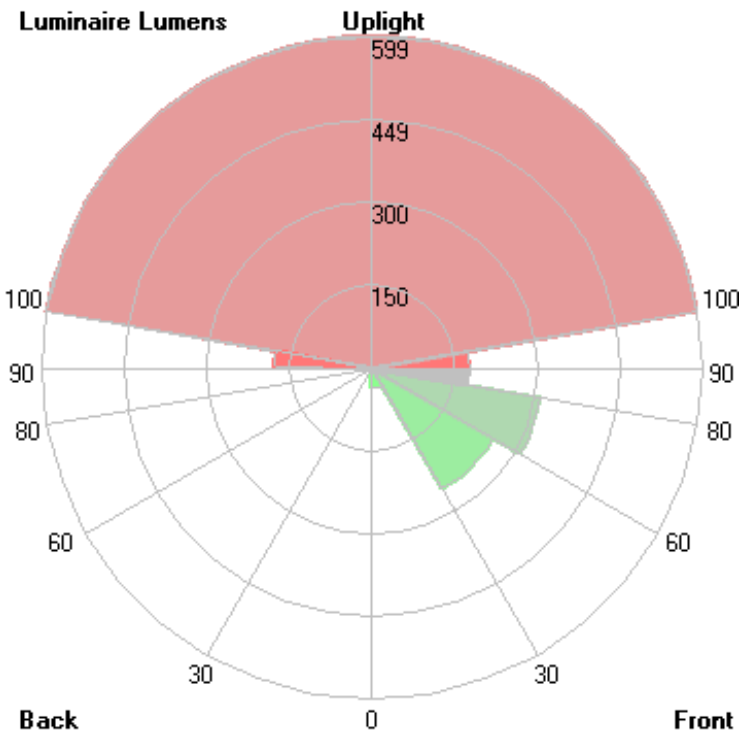
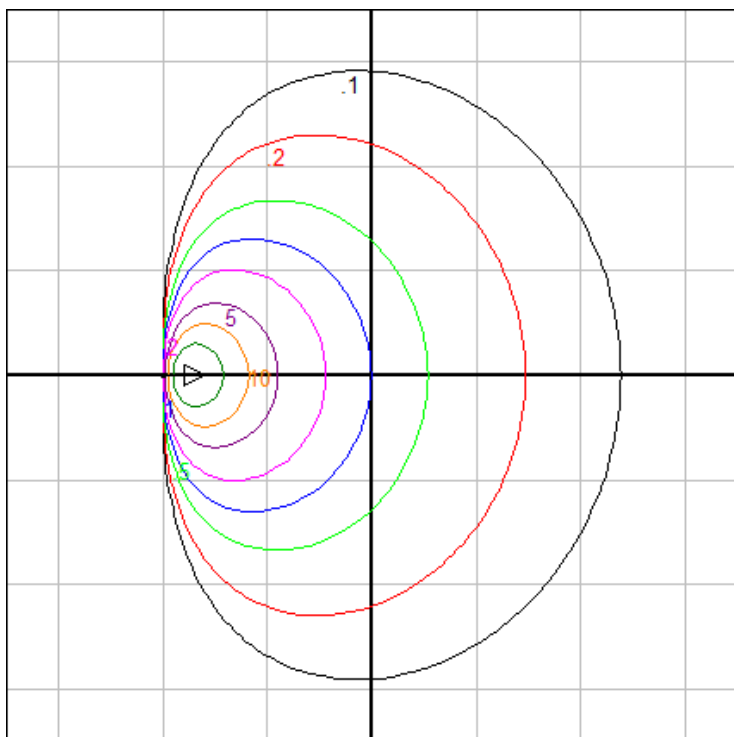
### Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1551
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	23
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	536.082 (0H, 90V)
Max. Cd. (<90 Vert.)	535.988 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	536.082 (34.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	535.988 (34.6%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

### Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	35.8	N.A.	2.3
FM (30-60)	253.6	N.A.	16.3
FH (60-80)	309.7	N.A.	20.0
FVH (80-90)	176.6	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)	176.6	N.A.	11.4
UH (100-180)	599.1	N.A.	38.6
Total	1551.4	N.A.	100.0

**BUG Rating B0-U4-G2**



Mounting Height: 2 ft.

Grid Spacing: 5 ft.

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