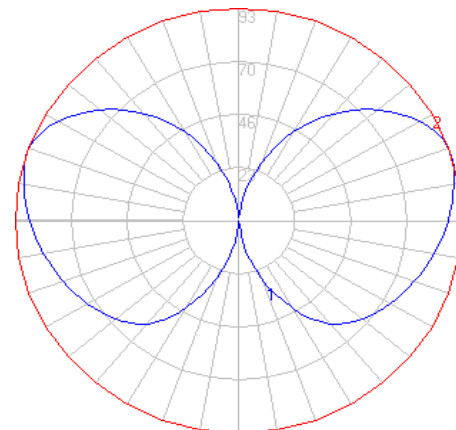


# BEGA

File: 84311K4\_BEGA\_IES.ies

TEST: BE\_84311K4  
TEST LAB: BEGA  
DATE: 09/24/2020  
LUMINAIRE: 84 311K4  
LAMP: 7.9W LED



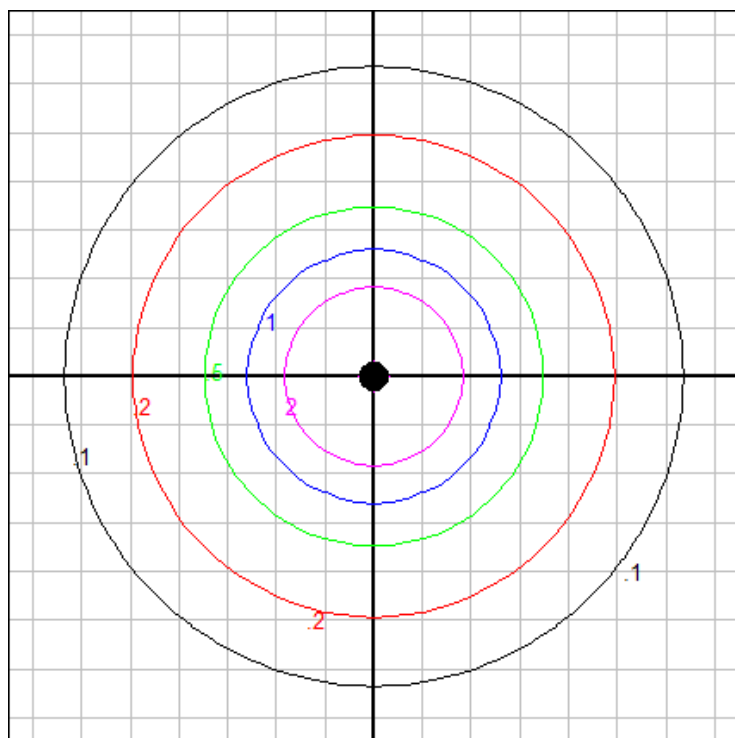
## Characteristics

|                                    |                  |
|------------------------------------|------------------|
| IES Classification                 | N.A.             |
| Longitudinal Classification        | N.A.             |
| Lumens Per Lamp                    | N.A. (absolute)  |
| Total Lamp Lumens                  | N.A. (absolute)  |
| Luminaire Lumens                   | 887              |
| Downward Total Efficiency          | N.A.             |
| Total Luminaire Efficiency         | N.A.             |
| Luminaire Efficacy Rating (LER)    | 89               |
| Total Luminaire Watts              | 10               |
| Ballast Factor                     | 1.00             |
| Upward Waste Light Ratio           | 0.53             |
| Max. Cd.                           | 92.9 (0H, 110V)  |
| Max. Cd. (<90 Vert.)               | 85.9 (0H, 87.5V) |
| Max. Cd. (At 90 Deg. Vert.)        | 87 (9.8%Lum)     |
| Max. Cd. (80 to <90 Deg. Vert.)    | 85.9 (9.7%Lum)   |
| Cutoff Classification (deprecated) | N.A. (absolute)  |

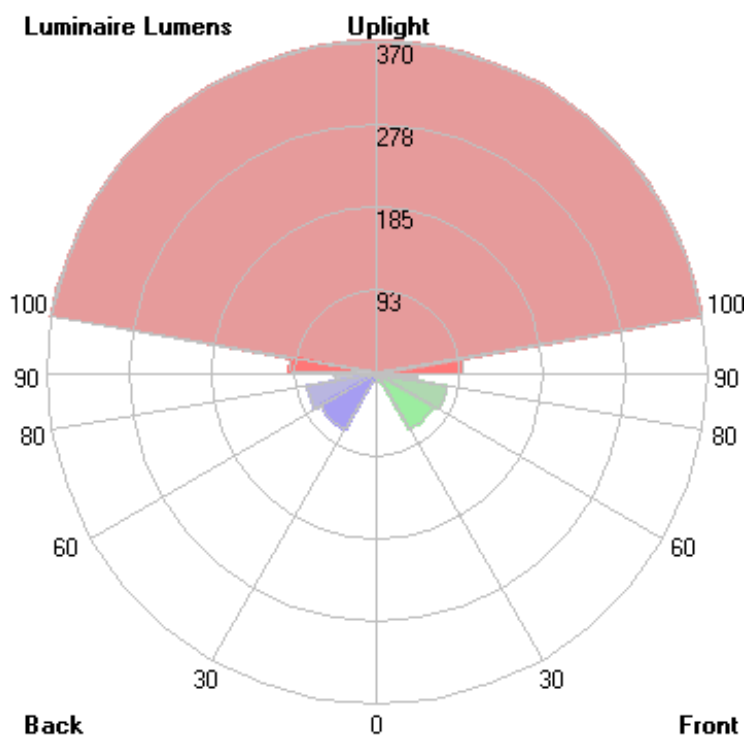
## Lum. Classification System (LCS)

| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 11.2   | N.A.  | 1.3   |
| FM (30-60)   | 72.4   | N.A.  | 8.2   |
| FH (60-80)   | 79.8   | N.A.  | 9.0   |
| FVH (80-90)  | 46.3   | N.A.  | 5.2   |
| BL (0-30)    | 11.2   | N.A.  | 1.3   |
| BM (30-60)   | 72.4   | N.A.  | 8.2   |
| BH (60-80)   | 79.8   | N.A.  | 9.0   |
| BVH (80-90)  | 46.3   | N.A.  | 5.2   |
| UL (90-100)  | 97.0   | N.A.  | 10.9  |
| UH (100-180) | 370.2  | N.A.  | 41.8  |
| Total        | 886.6  | N.A.  | 100.0 |

**BUG Rating** B0-U3-G1



Grid Spacing: 2 ft.



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

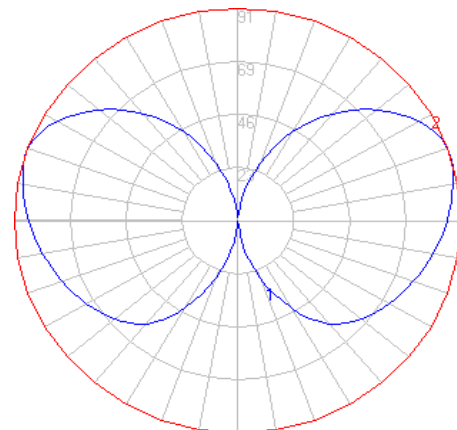
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# BEGA

File: 84311K35\_BEGA\_IES.ies

TEST: BE\_84311K4  
TEST LAB: BEGA  
DATE: 09/24/2020  
LUMINAIRE: 84 311K35  
LAMP: 7.9W LED



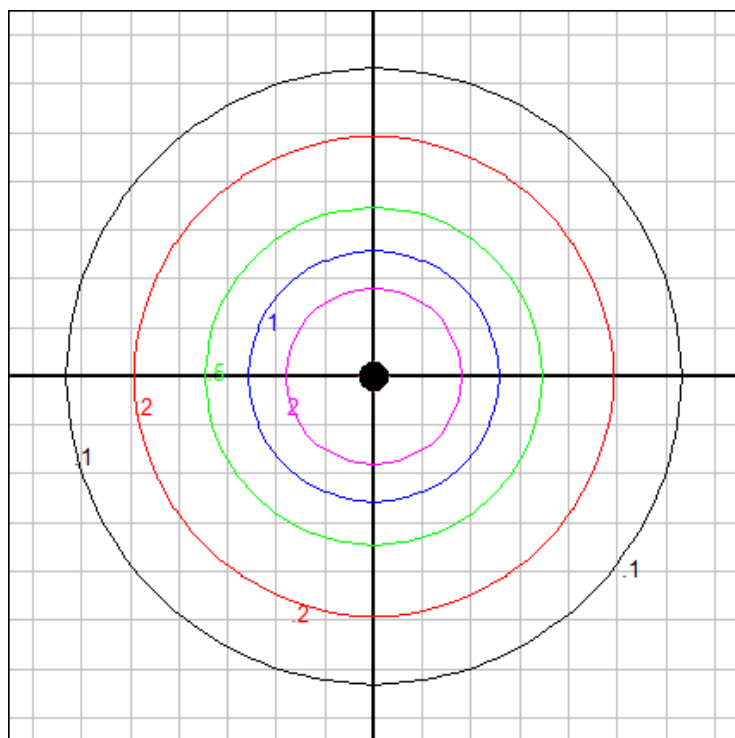
## Characteristics

|                                    |                    |
|------------------------------------|--------------------|
| IES Classification                 | N.A.               |
| Longitudinal Classification        | N.A.               |
| Lumens Per Lamp                    | N.A. (absolute)    |
| Total Lamp Lumens                  | N.A. (absolute)    |
| Luminaire Lumens                   | 873                |
| Downward Total Efficiency          | N.A.               |
| Total Luminaire Efficiency         | N.A.               |
| Luminaire Efficacy Rating (LER)    | 87                 |
| Total Luminaire Watts              | 10                 |
| Ballast Factor                     | 1.00               |
| Upward Waste Light Ratio           | 0.53               |
| Max. Cd.                           | 91.414 (0H, 110V)  |
| Max. Cd. (<90 Vert.)               | 84.526 (0H, 87.5V) |
| Max. Cd. (At 90 Deg. Vert.)        | 85.608 (9.8%Lum)   |
| Max. Cd. (80 to <90 Deg. Vert.)    | 84.426 (9.7%Lum)   |
| Cutoff Classification (deprecated) | N.A. (absolute)    |

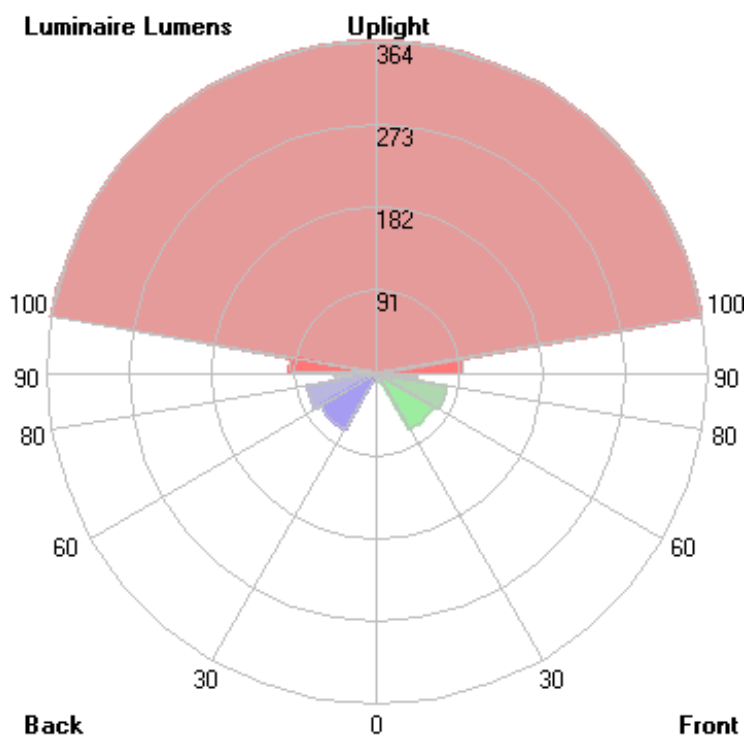
## Lum. Classification System (LCS)

| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 11.1   | N.A.  | 1.3   |
| FM (30-60)   | 71.3   | N.A.  | 8.2   |
| FH (60-80)   | 78.5   | N.A.  | 9.0   |
| FVH (80-90)  | 45.5   | N.A.  | 5.2   |
| BL (0-30)    | 11.1   | N.A.  | 1.3   |
| BM (30-60)   | 71.3   | N.A.  | 8.2   |
| BH (60-80)   | 78.5   | N.A.  | 9.0   |
| BVH (80-90)  | 45.5   | N.A.  | 5.2   |
| UL (90-100)  | 95.5   | N.A.  | 10.9  |
| UH (100-180) | 364.3  | N.A.  | 41.7  |
| Total        | 872.6  | N.A.  | 100.0 |

**BUG Rating** B0-U3-G1



Grid Spacing: 2 ft.



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

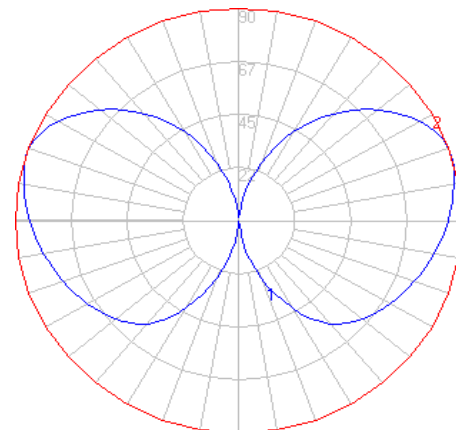
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# BEGA

File: 84311K3\_BEGA\_IES.ies

TEST: BE\_84311K4  
TEST LAB: BEGA  
DATE: 09/24/2020  
LUMINAIRE: 84 311K3  
LAMP: 7.9W LED



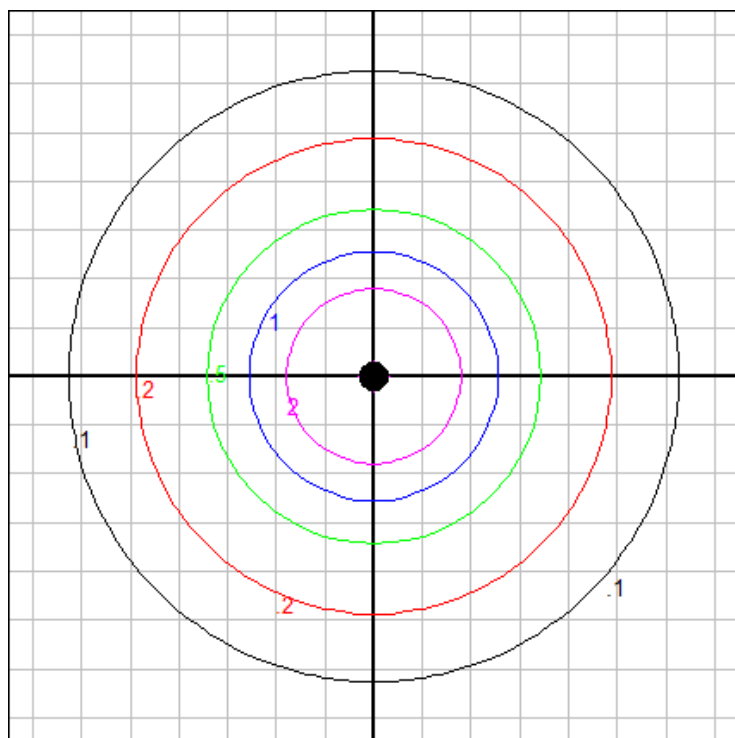
## Characteristics

|                                    |                    |
|------------------------------------|--------------------|
| IES Classification                 | N.A.               |
| Longitudinal Classification        | N.A.               |
| Lumens Per Lamp                    | N.A. (absolute)    |
| Total Lamp Lumens                  | N.A. (absolute)    |
| Luminaire Lumens                   | 855                |
| Downward Total Efficiency          | N.A.               |
| Total Luminaire Efficiency         | N.A.               |
| Luminaire Efficacy Rating (LER)    | 85                 |
| Total Luminaire Watts              | 10                 |
| Ballast Factor                     | 1.00               |
| Upward Waste Light Ratio           | 0.53               |
| Max. Cd.                           | 89.556 (0H, 110V)  |
| Max. Cd. (<90 Vert.)               | 82.808 (0H, 87.5V) |
| Max. Cd. (At 90 Deg. Vert.)        | 83.868 (9.8%Lum)   |
| Max. Cd. (80 to <90 Deg. Vert.)    | 82.808 (9.7%Lum)   |
| Cutoff Classification (deprecated) | N.A. (absolute)    |

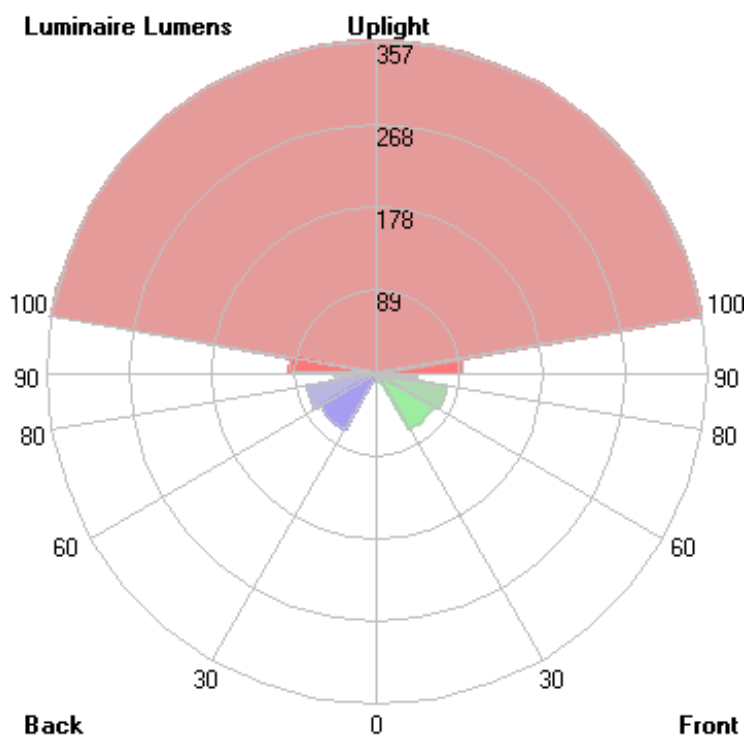
## Lum. Classification System (LCS)

| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 10.8   | N.A.  | 1.3   |
| FM (30-60)   | 69.8   | N.A.  | 8.2   |
| FH (60-80)   | 76.9   | N.A.  | 9.0   |
| FVH (80-90)  | 44.6   | N.A.  | 5.2   |
| BL (0-30)    | 10.8   | N.A.  | 1.3   |
| BM (30-60)   | 69.8   | N.A.  | 8.2   |
| BH (60-80)   | 76.9   | N.A.  | 9.0   |
| BVH (80-90)  | 44.6   | N.A.  | 5.2   |
| UL (90-100)  | 93.6   | N.A.  | 10.9  |
| UH (100-180) | 356.9  | N.A.  | 41.8  |
| Total        | 854.7  | N.A.  | 100.0 |

**BUG Rating** B0-U3-G1



Grid Spacing: 2 ft.



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

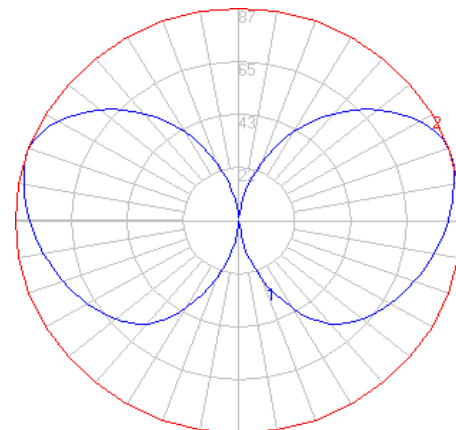
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# BEGA

File: 84311K27\_BEGA\_IES.ies

TEST: BE\_84311K4  
TEST LAB: BEGA  
DATE: 09/24/2020  
LUMINAIRE: 84 311K27  
LAMP: 7.9W LED



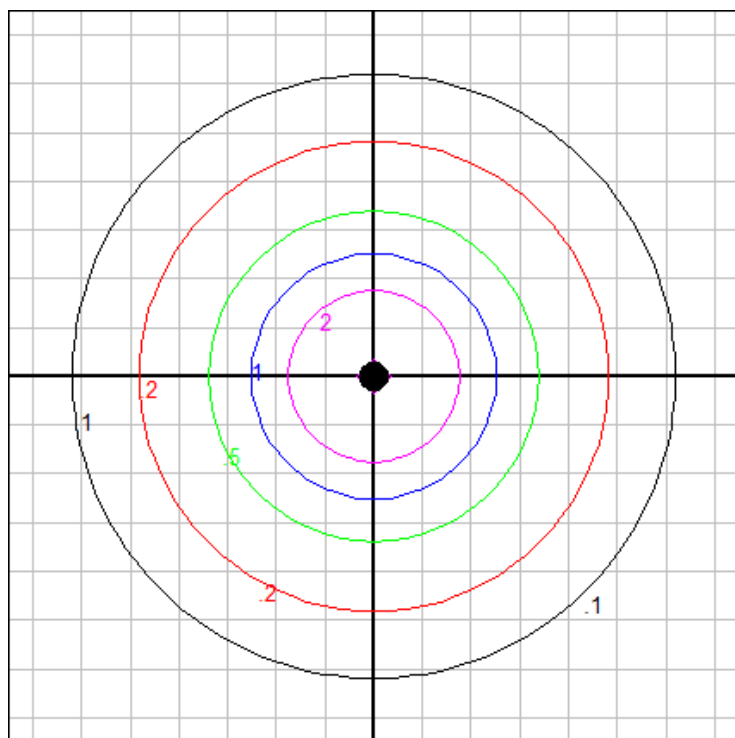
## Characteristics

|                                    |                    |
|------------------------------------|--------------------|
| IES Classification                 | N.A.               |
| Longitudinal Classification        | N.A.               |
| Lumens Per Lamp                    | N.A. (absolute)    |
| Total Lamp Lumens                  | N.A. (absolute)    |
| Luminaire Lumens                   | 827                |
| Downward Total Efficiency          | N.A.               |
| Total Luminaire Efficiency         | N.A.               |
| Luminaire Efficacy Rating (LER)    | 83                 |
| Total Luminaire Watts              | 10                 |
| Ballast Factor                     | 1.00               |
| Upward Waste Light Ratio           | 0.53               |
| Max. Cd.                           | 86.676 (0H, 110V)  |
| Max. Cd. (<90 Vert.)               | 80.145 (0H, 87.5V) |
| Max. Cd. (At 90 Deg. Vert.)        | 81.171 (9.8%Lum)   |
| Max. Cd. (80 to <90 Deg. Vert.)    | 80.145 (9.7%Lum)   |
| Cutoff Classification (deprecated) | N.A. (absolute)    |

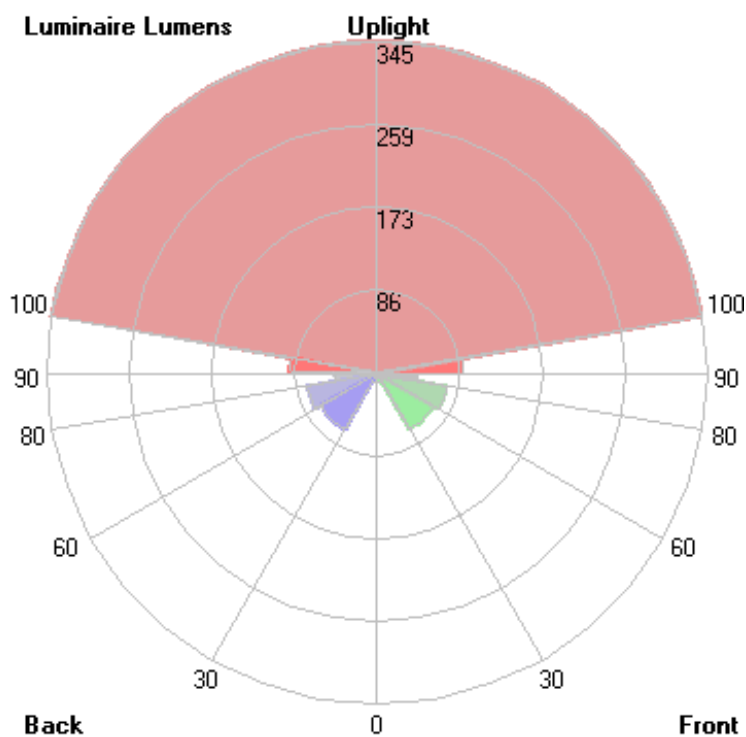
## Lum. Classification System (LCS)

| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 10.5   | N.A.  | 1.3   |
| FM (30-60)   | 67.6   | N.A.  | 8.2   |
| FH (60-80)   | 74.5   | N.A.  | 9.0   |
| FVH (80-90)  | 43.2   | N.A.  | 5.2   |
| BL (0-30)    | 10.2   | N.A.  | 1.3   |
| BM (30-60)   | 67.6   | N.A.  | 8.2   |
| BH (60-80)   | 74.5   | N.A.  | 9.0   |
| BVH (80-90)  | 43.2   | N.A.  | 5.2   |
| UL (90-100)  | 90.5   | N.A.  | 10.9  |
| UH (100-180) | 345.4  | N.A.  | 41.7  |
| Total        | 827.5  | N.A.  | 100.0 |

**BUG Rating** B0-U3-G1



Grid Spacing: 2 ft.



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

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