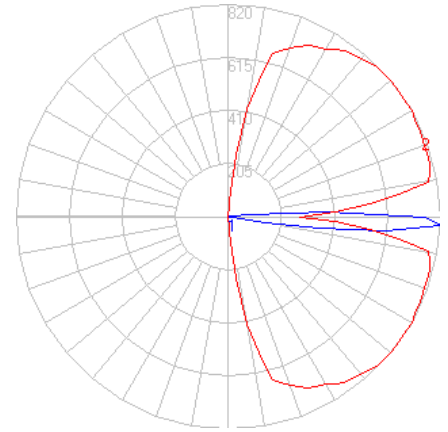


# BEGA

File: 84269K4\_BEGA\_IES.ies

TEST: BE\_84269K4  
TEST LAB: BEGA  
DATE: 09/04/2019  
LUMINAIRE: 84 269K4  
LAMP: 12.0W LED



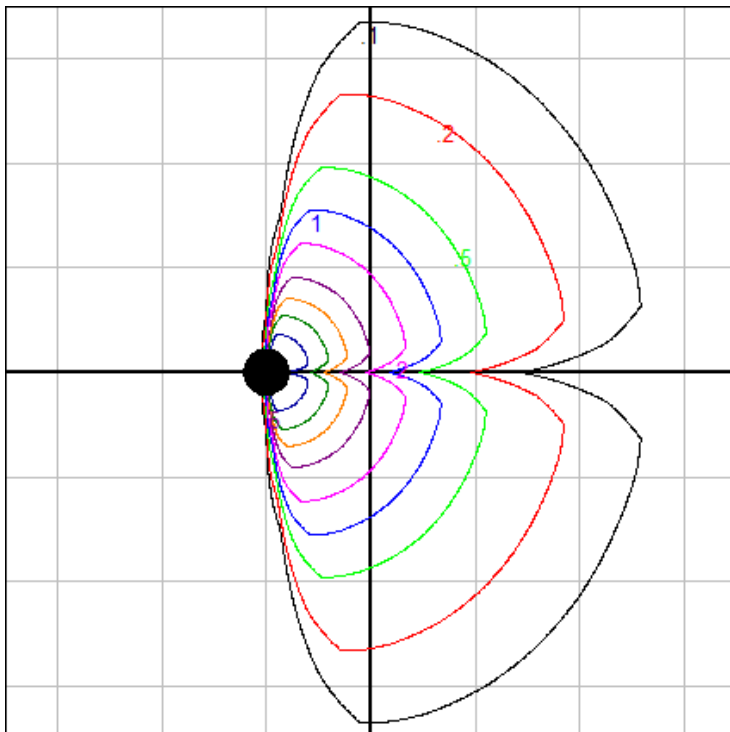
## Characteristics

|                                    |                     |
|------------------------------------|---------------------|
| IES Classification                 | Type IV             |
| Longitudinal Classification        | Very Long           |
| Lumens Per Lamp                    | N.A. (absolute)     |
| Total Lamp Lumens                  | N.A. (absolute)     |
| Luminaire Lumens                   | 370                 |
| Downward Total Efficiency          | N.A.                |
| Total Luminaire Efficiency         | N.A.                |
| Luminaire Efficacy Rating (LER)    | 23                  |
| Total Luminaire Watts              | 16                  |
| Ballast Factor                     | 1.00                |
| Upward Waste Light Ratio           | 0.29                |
| Max. Cd.                           | 820.1 (330H, 87.5V) |
| Max. Cd. (<90 Vert.)               | 820.1 (330H, 87.5V) |
| Max. Cd. (At 90 Deg. Vert.)        | 770.9 (208.4%Lum)   |
| Max. Cd. (80 to <90 Deg. Vert.)    | 820.1 (221.6%Lum)   |
| Cutoff Classification (deprecated) | N.A. (absolute)     |

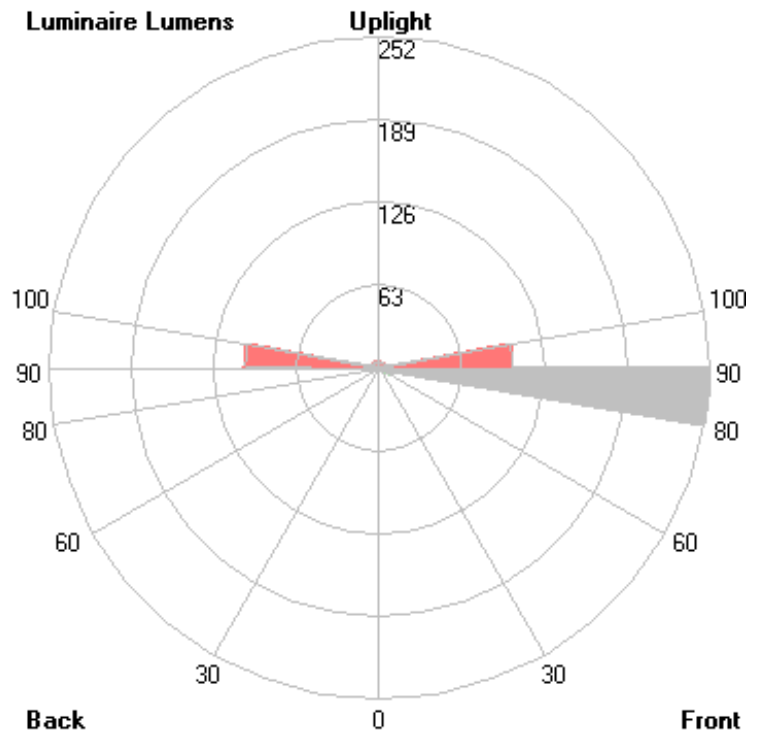
## Lum. Classification System (LCS)

| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 0.0    | N.A.  | 0.0   |
| FM (30-60)   | < 0.05 | N.A.  | 0.0   |
| FH (60-80)   | 11.4   | N.A.  | 3.1   |
| FVH (80-90)  | 252.1  | N.A.  | 68.1  |
| BL (0-30)    | 0.0    | N.A.  | 0.0   |
| BM (30-60)   | 0.0    | N.A.  | 0.0   |
| BH (60-80)   | < 0.05 | N.A.  | 0.0   |
| BVH (80-90)  | 0.1    | N.A.  | 0.0   |
| UL (90-100)  | 101.9  | N.A.  | 27.5  |
| UH (100-180) | 4.6    | N.A.  | 1.2   |
| Total        | 370.1  | N.A.  | 100.0 |

**BUG Rating B0-U3-G3**



Grid Spacing: 2.5 ft.



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

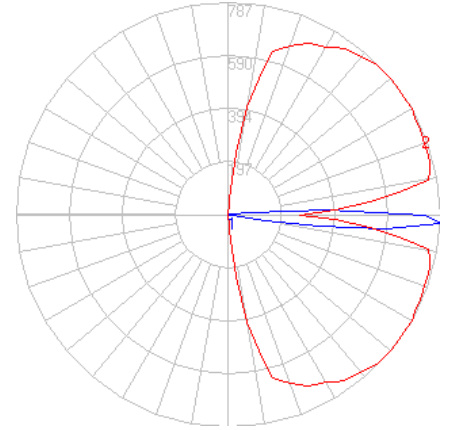
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# BEGA

File: 84269K35\_BEGA\_IES.ies

TEST: BE\_84269K4  
TEST LAB: BEGA  
DATE: 09/04/2019  
LUMINAIRE: 84 269K35  
LAMP: 12.0W LED



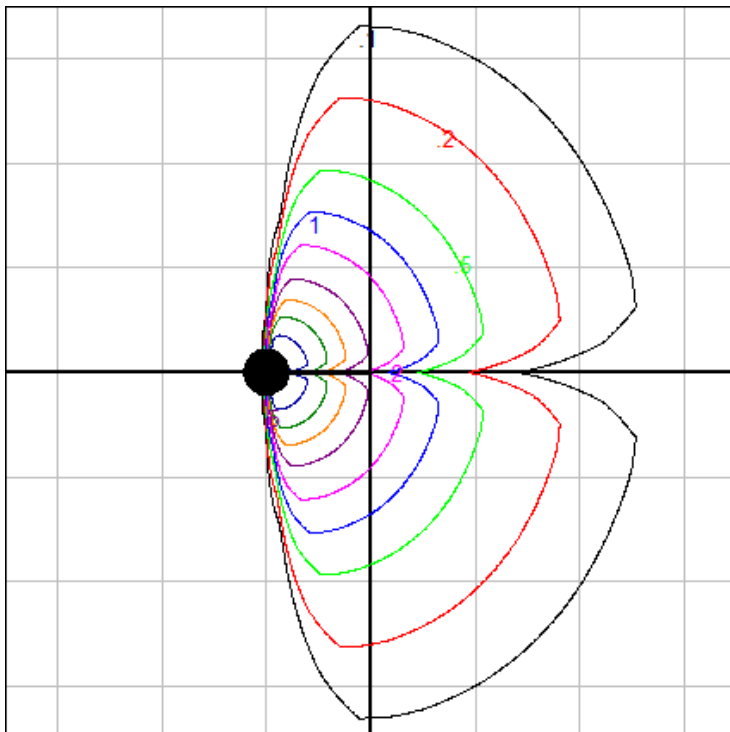
## Characteristics

|                                    |                       |
|------------------------------------|-----------------------|
| IES Classification                 | Type IV               |
| Longitudinal Classification        | Very Long             |
| Lumens Per Lamp                    | N.A. (absolute)       |
| Total Lamp Lumens                  | N.A. (absolute)       |
| Luminaire Lumens                   | 355                   |
| Downward Total Efficiency          | N.A.                  |
| Total Luminaire Efficiency         | N.A.                  |
| Luminaire Efficacy Rating (LER)    | 22                    |
| Total Luminaire Watts              | 16                    |
| Ballast Factor                     | 1.00                  |
| Upward Waste Light Ratio           | 0.29                  |
| Max. Cd.                           | 787.296 (330H, 87.5V) |
| Max. Cd. (<90 Vert.)               | 787.296 (330H, 87.5V) |
| Max. Cd. (At 90 Deg. Vert.)        | 740.064 (208.5%Lum)   |
| Max. Cd. (80 to <90 Deg. Vert.)    | 787.296 (221.8%Lum)   |
| Cutoff Classification (deprecated) | N.A. (absolute)       |

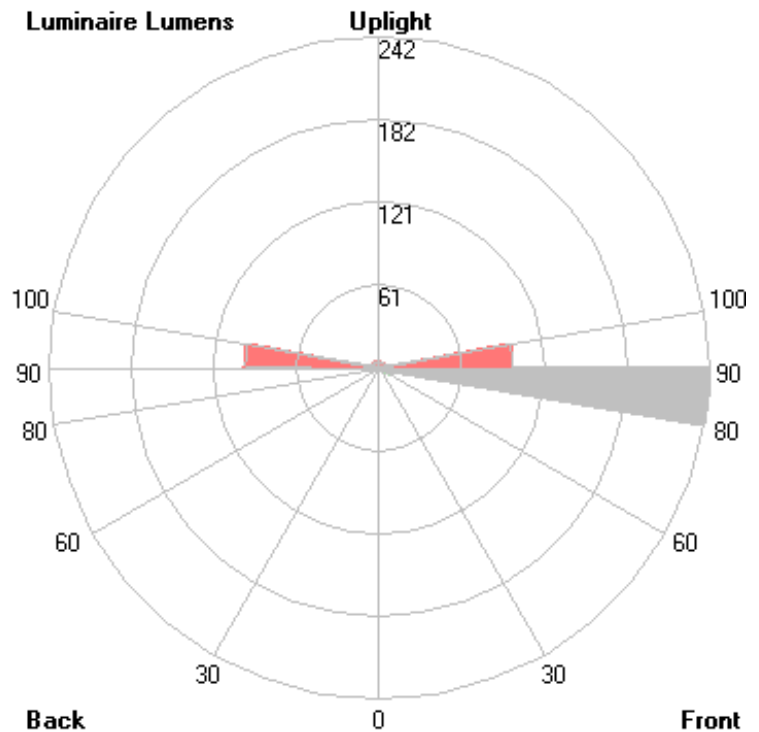
## Lum. Classification System (LCS)

| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 0.0    | N.A.  | 0.0   |
| FM (30-60)   | < 0.05 | N.A.  | 0.0   |
| FH (60-80)   | 10.9   | N.A.  | 3.1   |
| FVH (80-90)  | 242.0  | N.A.  | 68.1  |
| BL (0-30)    | 0.0    | N.A.  | 0.0   |
| BM (30-60)   | 0.0    | N.A.  | 0.0   |
| BH (60-80)   | < 0.05 | N.A.  | 0.0   |
| BVH (80-90)  | 0.1    | N.A.  | 0.0   |
| UL (90-100)  | 97.8   | N.A.  | 27.5  |
| UH (100-180) | 4.4    | N.A.  | 1.2   |
| Total        | 355.2  | N.A.  | 100.0 |

**BUG Rating B0-U3-G3**



Grid Spacing: 2.5 ft.



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

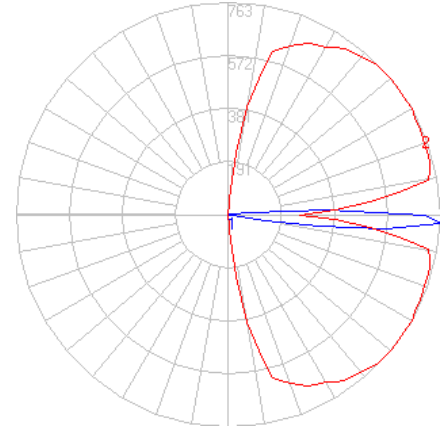
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# BEGA

File: 84269K3\_BEGA\_IES.ies

TEST: BE\_84269K4  
TEST LAB: BEGA  
DATE: 09/04/2019  
LUMINAIRE: 84 269K3  
LAMP: 12.0W LED



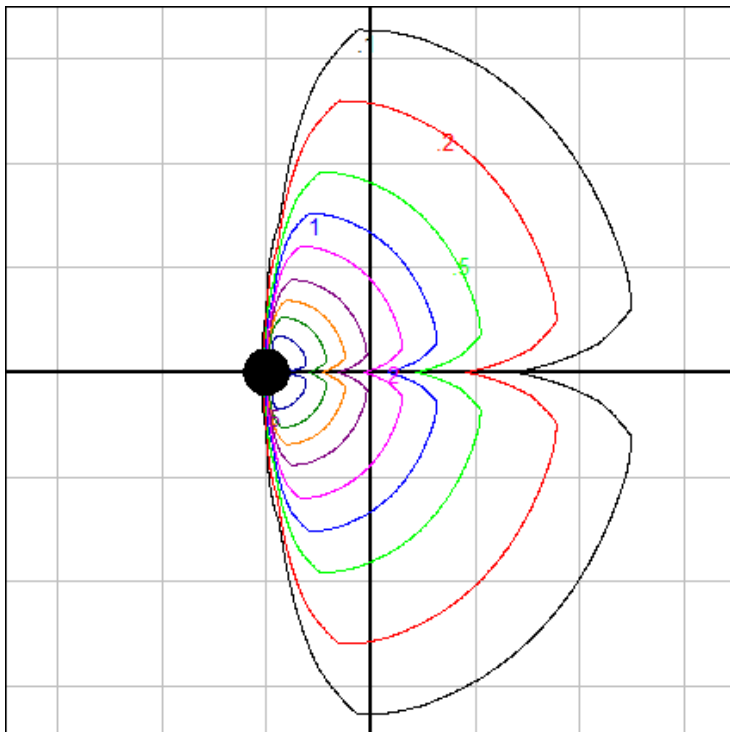
## Characteristics

|                                    |                       |
|------------------------------------|-----------------------|
| IES Classification                 | Type IV               |
| Longitudinal Classification        | Very Long             |
| Lumens Per Lamp                    | N.A. (absolute)       |
| Total Lamp Lumens                  | N.A. (absolute)       |
| Luminaire Lumens                   | 344                   |
| Downward Total Efficiency          | N.A.                  |
| Total Luminaire Efficiency         | N.A.                  |
| Luminaire Efficacy Rating (LER)    | 22                    |
| Total Luminaire Watts              | 16                    |
| Ballast Factor                     | 1.00                  |
| Upward Waste Light Ratio           | 0.29                  |
| Max. Cd.                           | 762.693 (330H, 87.5V) |
| Max. Cd. (<90 Vert.)               | 762.693 (330H, 87.5V) |
| Max. Cd. (At 90 Deg. Vert.)        | 716.937 (208.4%Lum)   |
| Max. Cd. (80 to <90 Deg. Vert.)    | 762.693 (221.7%Lum)   |
| Cutoff Classification (deprecated) | N.A. (absolute)       |

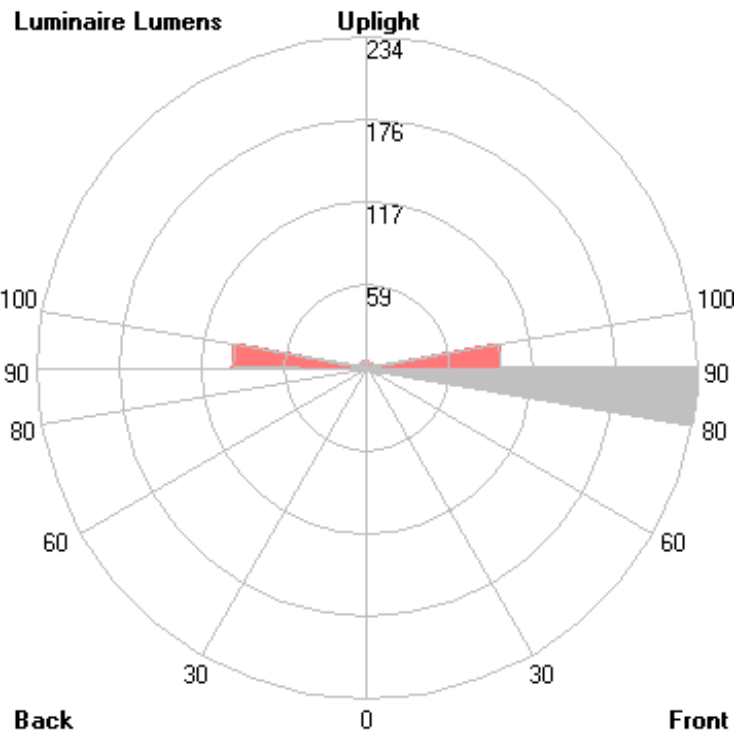
## Lum. Classification System (LCS)

| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 0.0    | N.A.  | 0.0   |
| FM (30-60)   | < 0.05 | N.A.  | 0.0   |
| FH (60-80)   | 10.6   | N.A.  | 3.1   |
| FVH (80-90)  | 234.4  | N.A.  | 68.1  |
| BL (0-30)    | 0.0    | N.A.  | 0.0   |
| BM (30-60)   | 0.0    | N.A.  | 0.0   |
| BH (60-80)   | < 0.05 | N.A.  | 0.0   |
| BVH (80-90)  | 0.1    | N.A.  | 0.0   |
| UL (90-100)  | 94.8   | N.A.  | 27.5  |
| UH (100-180) | 4.3    | N.A.  | 1.2   |
| Total        | 344.2  | N.A.  | 100.0 |

**BUG Rating** B0-U3-G3



Grid Spacing: 2.5 ft.



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

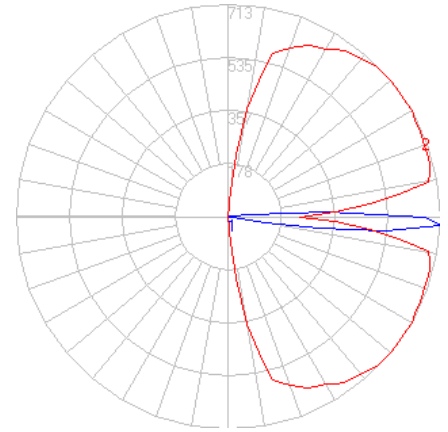
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# BEGA

File: 84269K27\_BEGA\_IES.ies

TEST: BE\_84269K4  
TEST LAB: BEGA  
DATE: 09/04/2019  
LUMINAIRE: 84 269K27  
LAMP: 12.0W LED



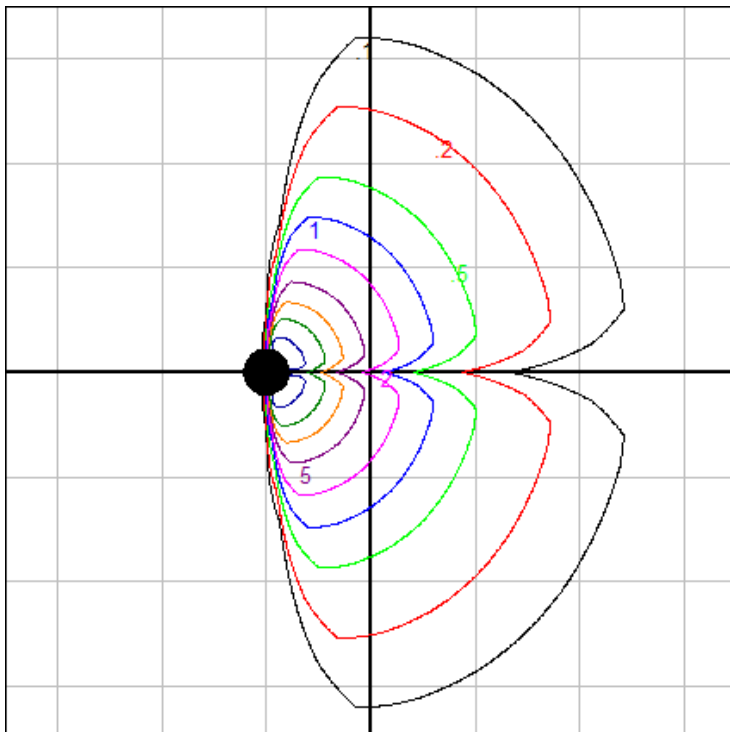
## Characteristics

|                                    |                       |
|------------------------------------|-----------------------|
| IES Classification                 | Type IV               |
| Longitudinal Classification        | Very Long             |
| Lumens Per Lamp                    | N.A. (absolute)       |
| Total Lamp Lumens                  | N.A. (absolute)       |
| Luminaire Lumens                   | 322                   |
| Downward Total Efficiency          | N.A.                  |
| Total Luminaire Efficiency         | N.A.                  |
| Luminaire Efficacy Rating (LER)    | 20                    |
| Total Luminaire Watts              | 16                    |
| Ballast Factor                     | 1.00                  |
| Upward Waste Light Ratio           | 0.29                  |
| Max. Cd.                           | 713.487 (330H, 87.5V) |
| Max. Cd. (<90 Vert.)               | 713.487 (330H, 87.5V) |
| Max. Cd. (At 90 Deg. Vert.)        | 670.683 (208.3%Lum)   |
| Max. Cd. (80 to <90 Deg. Vert.)    | 713.487 (221.6%Lum)   |
| Cutoff Classification (deprecated) | N.A. (absolute)       |

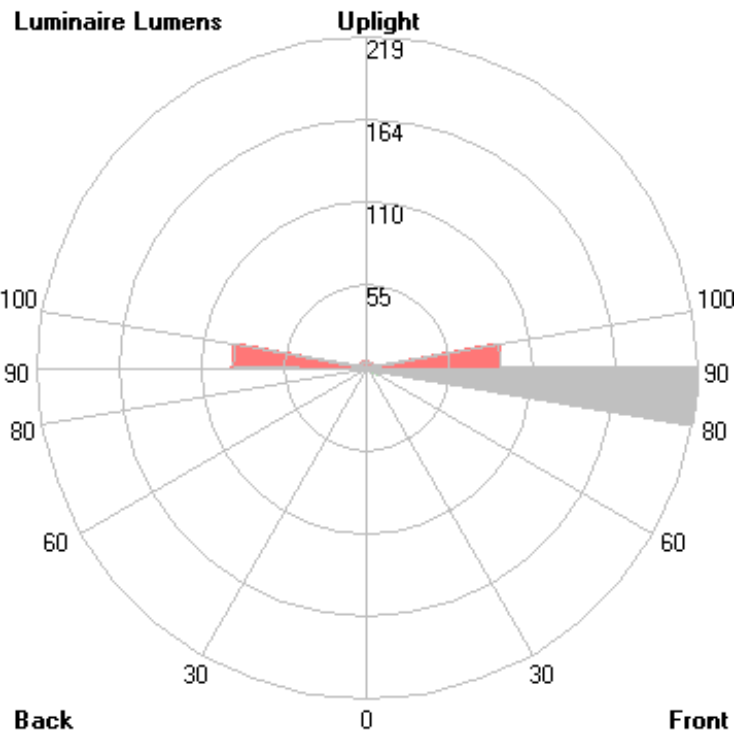
## Lum. Classification System (LCS)

| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 0.0    | N.A.  | 0.0   |
| FM (30-60)   | < 0.05 | N.A.  | 0.0   |
| FH (60-80)   | 9.9    | N.A.  | 3.1   |
| FVH (80-90)  | 219.3  | N.A.  | 68.1  |
| BL (0-30)    | 0.0    | N.A.  | 0.0   |
| BM (30-60)   | 0.0    | N.A.  | 0.0   |
| BH (60-80)   | < 0.05 | N.A.  | 0.0   |
| BVH (80-90)  | 0.1    | N.A.  | 0.0   |
| UL (90-100)  | 88.6   | N.A.  | 27.5  |
| UH (100-180) | 4.0    | N.A.  | 1.2   |
| Total        | 321.9  | N.A.  | 100.0 |

**BUG Rating B0-U3-G2**



Grid Spacing: 2.5 ft.



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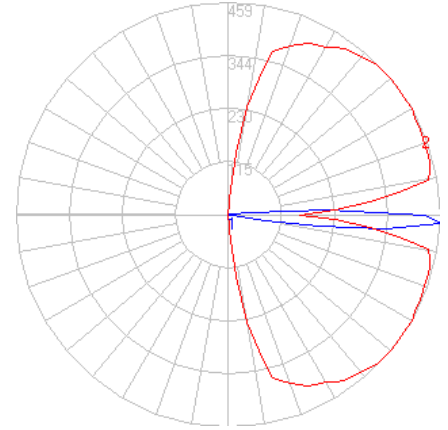
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# BEGA

File: 84269\_AMB\_BEGA\_IES.ies

TEST: BE\_84269K4  
TEST LAB: BEGA  
DATE: 09/04/2019  
LUMINAIRE: 84 269 AMBER  
LAMP: 9.0W LED



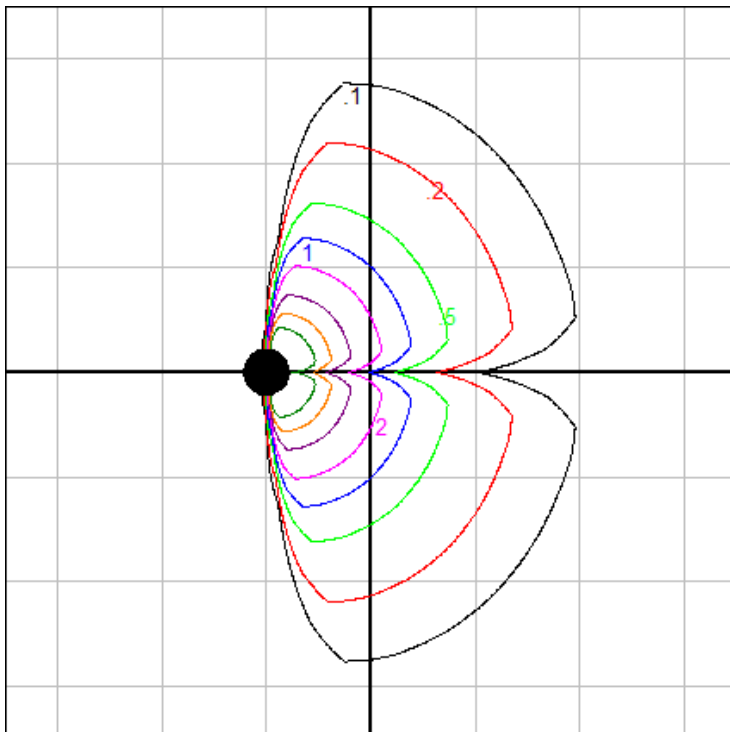
## Characteristics

|                                    |                       |
|------------------------------------|-----------------------|
| IES Classification                 | Type IV               |
| Longitudinal Classification        | Very Long             |
| Lumens Per Lamp                    | N.A. (absolute)       |
| Total Lamp Lumens                  | N.A. (absolute)       |
| Luminaire Lumens                   | 207                   |
| Downward Total Efficiency          | N.A.                  |
| Total Luminaire Efficiency         | N.A.                  |
| Luminaire Efficacy Rating (LER)    | 17                    |
| Total Luminaire Watts              | 12                    |
| Ballast Factor                     | 1.00                  |
| Upward Waste Light Ratio           | 0.29                  |
| Max. Cd.                           | 459.256 (330H, 87.5V) |
| Max. Cd. (<90 Vert.)               | 459.256 (330H, 87.5V) |
| Max. Cd. (At 90 Deg. Vert.)        | 431.704 (208.6%Lum)   |
| Max. Cd. (80 to <90 Deg. Vert.)    | 459.256 (221.9%Lum)   |
| Cutoff Classification (deprecated) | N.A. (absolute)       |

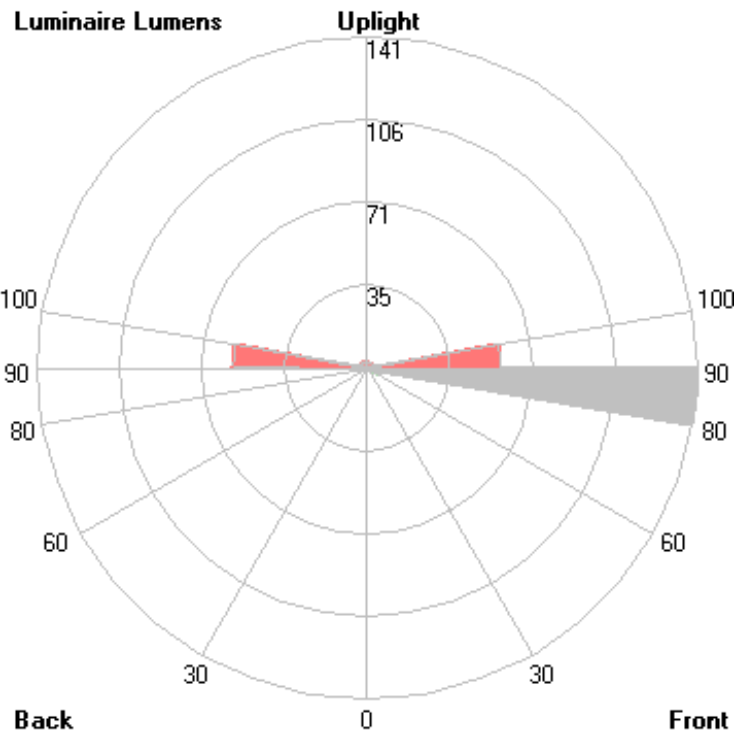
## Lum. Classification System (LCS)

| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 0.0    | N.A.  | 0.0   |
| FM (30-60)   | < 0.05 | N.A.  | 0.0   |
| FH (60-80)   | 6.4    | N.A.  | 3.1   |
| FVH (80-90)  | 141.2  | N.A.  | 68.1  |
| BL (0-30)    | 0.0    | N.A.  | 0.0   |
| BM (30-60)   | 0.0    | 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)  | 57.1   | N.A.  | 27.5  |
| UH (100-180) | 2.6    | N.A.  | 1.2   |
| Total        | 207.3  | N.A.  | 100.0 |

**BUG Rating B0-U3-G2**



Grid Spacing: 2.5 ft.



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