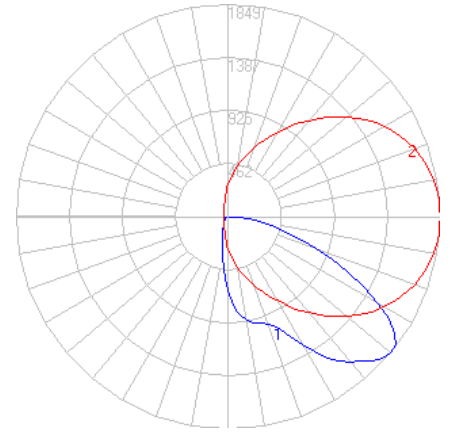


# BEGA

File: 84468K4\_BEGA\_IES.ies

TEST: BE\_84468K4  
TEST LAB: BEGA  
DATE: 08/25/2016  
LUMINAIRE: 84468 K4  
LAMP: 17.6W LED



## Characteristics

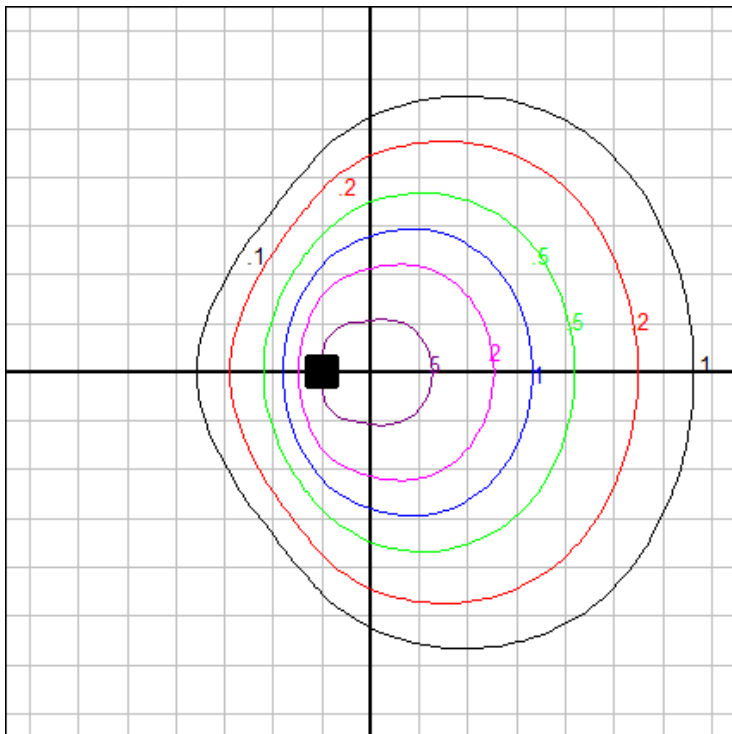
|                                    |                    |
|------------------------------------|--------------------|
| IES Classification                 | Type III           |
| Longitudinal Classification        | Very Short         |
| Lumens Per Lamp                    | N.A. (absolute)    |
| Total Lamp Lumens                  | N.A. (absolute)    |
| Luminaire Lumens                   | 2521               |
| Downward Total Efficiency          | N.A.               |
| Total Luminaire Efficiency         | N.A.               |
| Luminaire Efficacy Rating (LER)    | 115                |
| Total Luminaire Watts              | 22                 |
| Ballast Factor                     | 1.00               |
| Upward Waste Light Ratio           | 0.00               |
| Max. Cd.                           | 1849.2 (360H, 50V) |
| Max. Cd. (<90 Vert.)               | 1849.2 (360H, 50V) |
| Max. Cd. (At 90 Deg. Vert.)        | 4.5 (0.2%Lum)      |
| Max. Cd. (80 to <90 Deg. Vert.)    | 270.9 (10.7%Lum)   |
| Cutoff Classification (deprecated) | N.A. (absolute)    |

## Lum. Classification System (LCS)

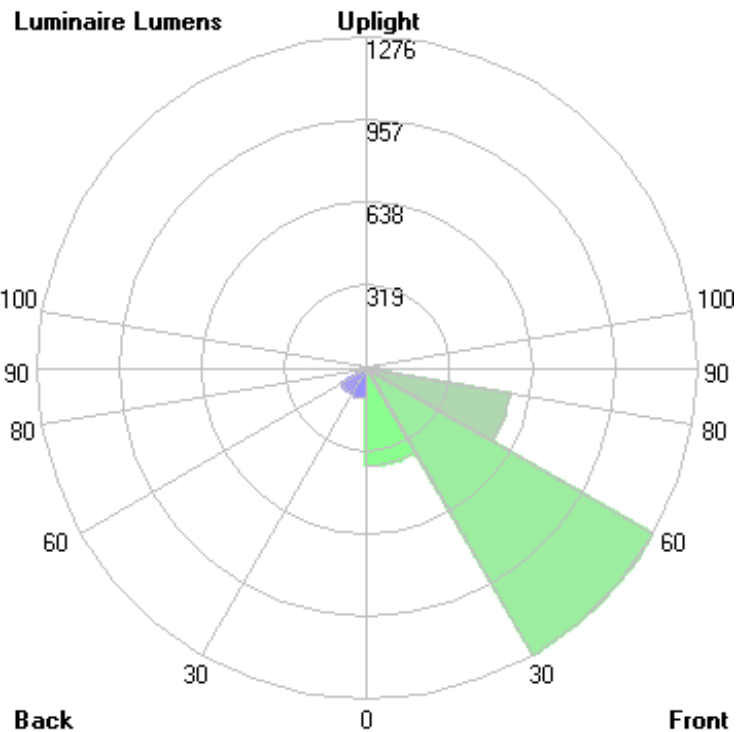
| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 376.1  | N.A.  | 14.9  |
| FM (30-60)   | 1276.2 | N.A.  | 50.6  |
| FH (60-80)   | 560.7  | N.A.  | 22.2  |
| FVH (80-90)  | 42.3   | N.A.  | 1.7   |
| BL (0-30)    | 119.0  | N.A.  | 4.7   |
| BM (30-60)   | 114.4  | N.A.  | 4.5   |
| BH (60-80)   | 30.4   | N.A.  | 1.2   |
| BVH (80-90)  | 2.1    | N.A.  | 0.1   |
| UL (90-100)  | 0.2    | N.A.  | 0.0   |
| UH (100-180) | 0.0    | N.A.  | 0.0   |
| Total        | 2521.4 | N.A.  | 100.0 |

## BUG Rating B1-U0\*-G1

\*Fixture has measured rating of U1 due to testing above 90 degrees and stray light from reflection off of the fixture body. Upon visual inspection of luminaire, it has a flat lens and opaque sides, there is no significant uplift (<0.5%), and it has therefore been assigned a value of U0. Consult factory for more information.



Grid Spacing: 5 ft.



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

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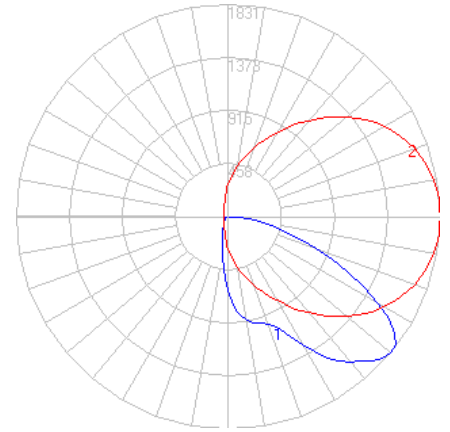
# BEGA

File: 84468K35\_BEGA\_IES.ies

TEST: BE\_84468K4  
TEST LAB: BEGA  
DATE: 08/25/2016  
LUMINAIRE: 84468 K35  
LAMP: 17.6W LED

## Characteristics

|                                    |                      |
|------------------------------------|----------------------|
| IES Classification                 | Type III             |
| Longitudinal Classification        | Very Short           |
| Lumens Per Lamp                    | N.A. (absolute)      |
| Total Lamp Lumens                  | N.A. (absolute)      |
| Luminaire Lumens                   | 2496                 |
| Downward Total Efficiency          | N.A.                 |
| Total Luminaire Efficiency         | N.A.                 |
| Luminaire Efficacy Rating (LER)    | 113                  |
| Total Luminaire Watts              | 22                   |
| Ballast Factor                     | 1.00                 |
| Upward Waste Light Ratio           | 0.00                 |
| Max. Cd.                           | 1830.708 (360H, 50V) |
| Max. Cd. (<90 Vert.)               | 1830.708 (360H, 50V) |
| Max. Cd. (At 90 Deg. Vert.)        | 4.455 (0.2%Lum)      |
| Max. Cd. (80 to <90 Deg. Vert.)    | 268.191 (10.7%Lum)   |
| Cutoff Classification (deprecated) | N.A. (absolute)      |

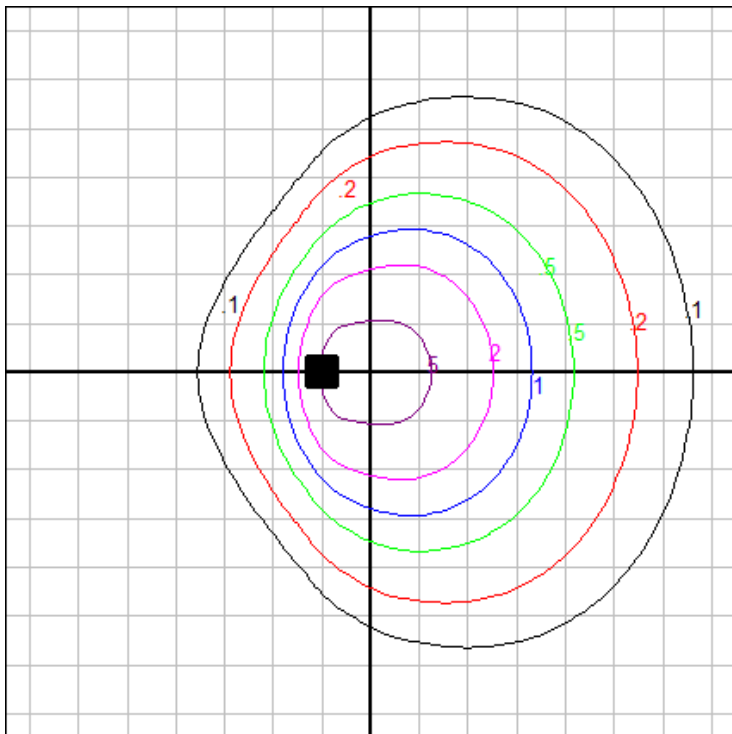


## Lum. Classification System (LCS)

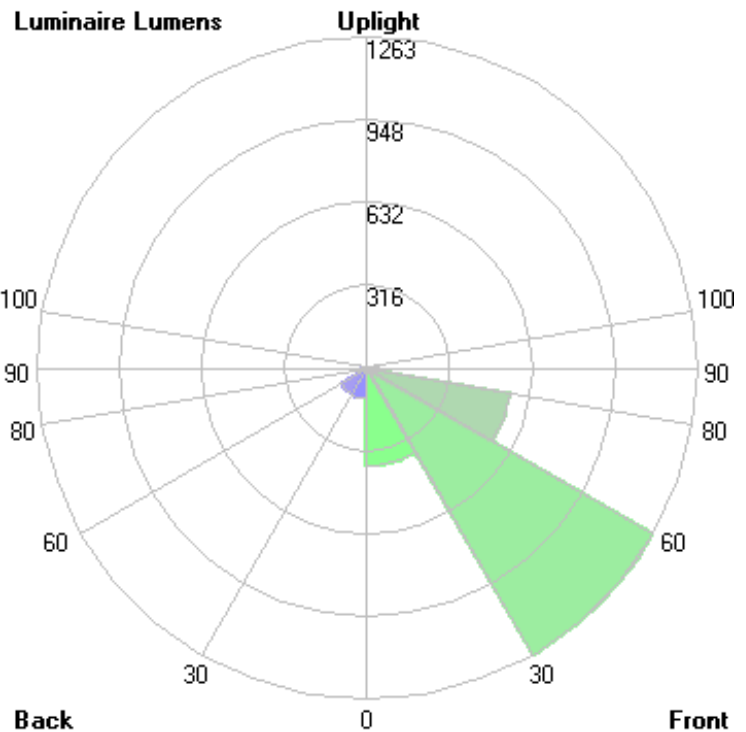
| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 372.4  | N.A.  | 14.9  |
| FM (30-60)   | 1263.4 | N.A.  | 50.6  |
| FH (60-80)   | 555.1  | N.A.  | 22.2  |
| FVH (80-90)  | 41.9   | N.A.  | 1.7   |
| BL (0-30)    | 117.8  | N.A.  | 4.7   |
| BM (30-60)   | 113.2  | N.A.  | 4.5   |
| BH (60-80)   | 30.1   | N.A.  | 1.2   |
| BVH (80-90)  | 2.1    | N.A.  | 0.1   |
| UL (90-100)  | 0.2    | N.A.  | 0.0   |
| UH (100-180) | 0.0    | N.A.  | 0.0   |
| Total        | 2496.2 | N.A.  | 100.0 |

## BUG Rating B1-U0\*-G1

\*Fixture has measured rating of U1 due to testing above 90 degrees and stray light from reflection off of the fixture body. Upon visual inspection of luminaire, it has a flat lens and opaque sides, there is no significant uplift (<0.5%), and it has therefore been assigned a value of U0. Consult factory for more information.



Grid Spacing: 5 ft.



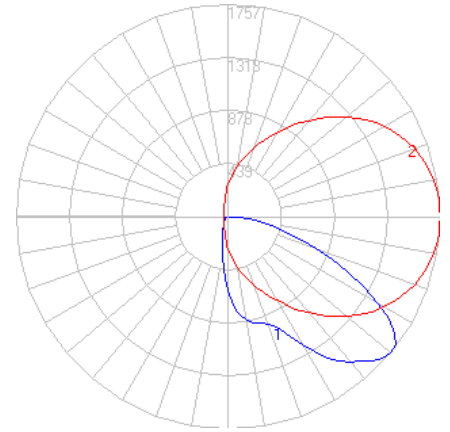
# BEGA

File: 84468K3\_BEGA\_IES.ies

TEST: BE\_84468K4  
TEST LAB: BEGA  
DATE: 08/25/2016  
LUMINAIRE: 84468 K3  
LAMP: 17.6W LED

## Characteristics

|                                    |                     |
|------------------------------------|---------------------|
| IES Classification                 | Type III            |
| Longitudinal Classification        | Very Short          |
| Lumens Per Lamp                    | N.A. (absolute)     |
| Total Lamp Lumens                  | N.A. (absolute)     |
| Luminaire Lumens                   | 2395                |
| Downward Total Efficiency          | N.A.                |
| Total Luminaire Efficiency         | N.A.                |
| Luminaire Efficacy Rating (LER)    | 109                 |
| Total Luminaire Watts              | 22                  |
| Ballast Factor                     | 1.00                |
| Upward Waste Light Ratio           | 0.00                |
| Max. Cd.                           | 1756.74 (360H, 50V) |
| Max. Cd. (<90 Vert.)               | 1756.74 (360H, 50V) |
| Max. Cd. (At 90 Deg. Vert.)        | 4.275 (0.2%Lum)     |
| Max. Cd. (80 to <90 Deg. Vert.)    | 257.355 (10.7%Lum)  |
| Cutoff Classification (deprecated) | N.A. (absolute)     |

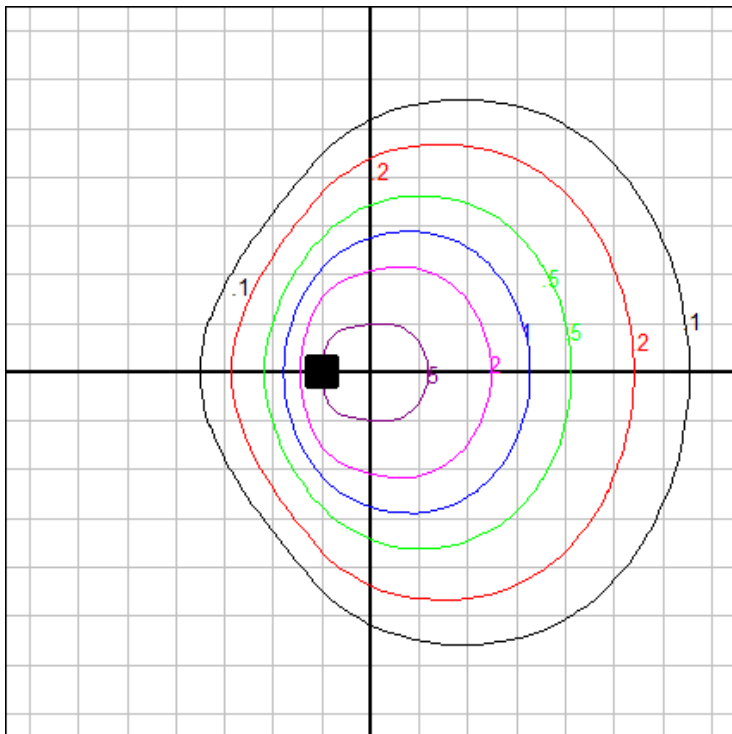


## Lum. Classification System (LCS)

| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 357.3  | N.A.  | 14.9  |
| FM (30-60)   | 1212.4 | N.A.  | 50.6  |
| FH (60-80)   | 532.7  | N.A.  | 22.2  |
| FVH (80-90)  | 40.2   | N.A.  | 1.7   |
| BL (0-30)    | 113.0  | N.A.  | 4.7   |
| BM (30-60)   | 108.6  | N.A.  | 4.5   |
| BH (60-80)   | 28.9   | N.A.  | 1.2   |
| BVH (80-90)  | 2.0    | N.A.  | 0.1   |
| UL (90-100)  | 0.2    | N.A.  | 0.0   |
| UH (100-180) | 0.0    | N.A.  | 0.0   |
| Total        | 2395.3 | N.A.  | 100.0 |

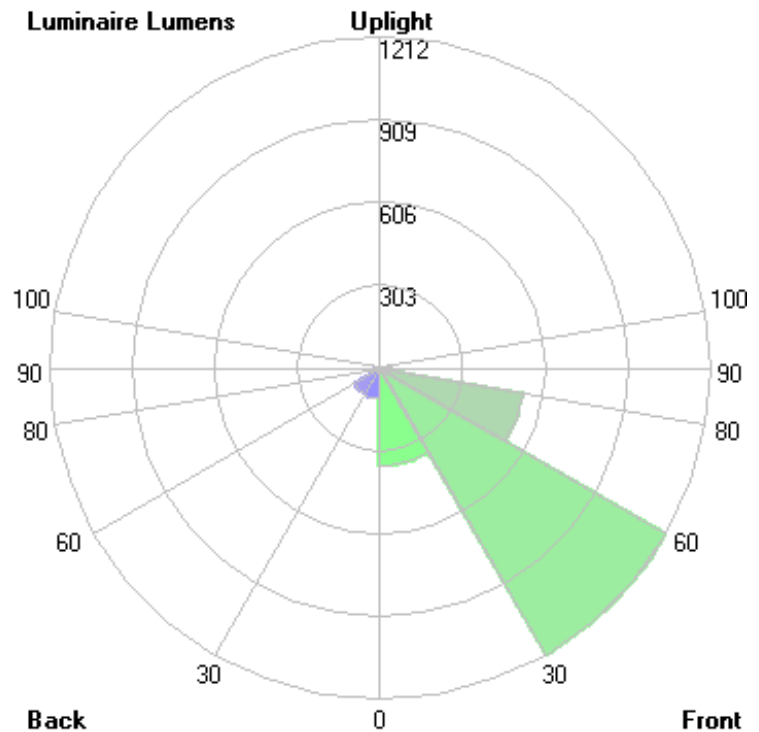
## BUG Rating B1-U0\*-G1

\*Fixture has measured rating of U1 due to testing above 90 degrees and stray light from reflection off of the fixture body. Upon visual inspection of luminaire, it has a flat lens and opaque sides, there is no significant uplift (<0.5%), and it has therefore been assigned a value of U0. Consult factory for more information.



Grid Spacing: 5 ft.

## Luminaire Lumens



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

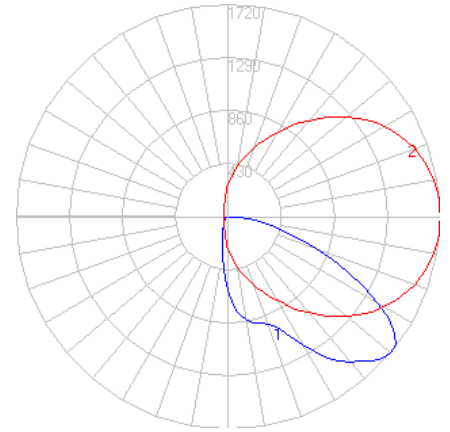
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# BEGA

File: 84468K27\_BEGA\_IES.ies

TEST: BE\_84468K4  
TEST LAB: BEGA  
DATE: 08/25/2016  
LUMINAIRE: 84468 K27  
LAMP: 17.6W LED



## Characteristics

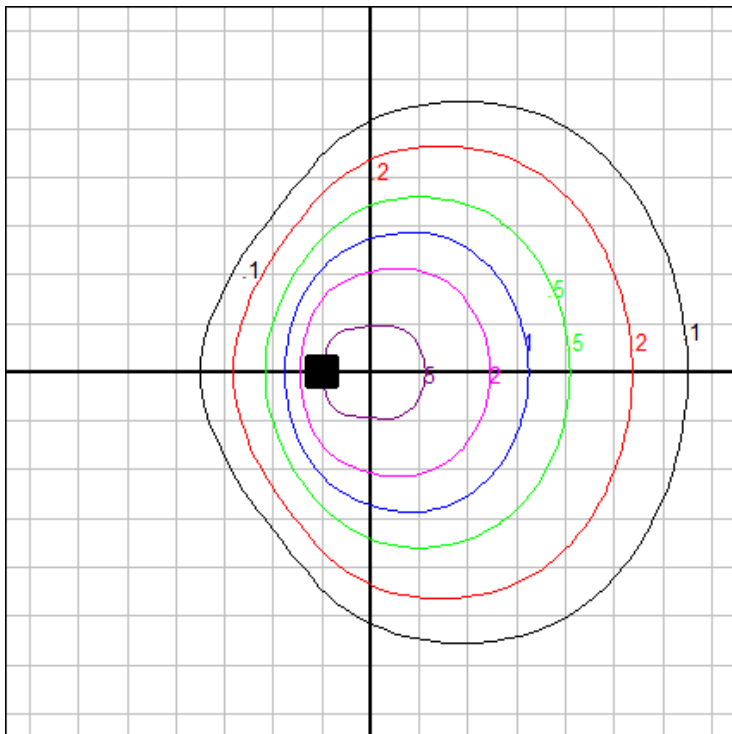
|                                    |                      |
|------------------------------------|----------------------|
| IES Classification                 | Type III             |
| Longitudinal Classification        | Very Short           |
| Lumens Per Lamp                    | N.A. (absolute)      |
| Total Lamp Lumens                  | N.A. (absolute)      |
| Luminaire Lumens                   | 2345                 |
| Downward Total Efficiency          | N.A.                 |
| Total Luminaire Efficiency         | N.A.                 |
| Luminaire Efficacy Rating (LER)    | 107                  |
| Total Luminaire Watts              | 22                   |
| Ballast Factor                     | 1.00                 |
| Upward Waste Light Ratio           | 0.00                 |
| Max. Cd.                           | 1719.756 (360H, 50V) |
| Max. Cd. (<90 Vert.)               | 1719.756 (360H, 50V) |
| Max. Cd. (At 90 Deg. Vert.)        | 4.185 (0.2%Lum)      |
| Max. Cd. (80 to <90 Deg. Vert.)    | 251.937 (10.7%Lum)   |
| Cutoff Classification (deprecated) | N.A. (absolute)      |

## Lum. Classification System (LCS)

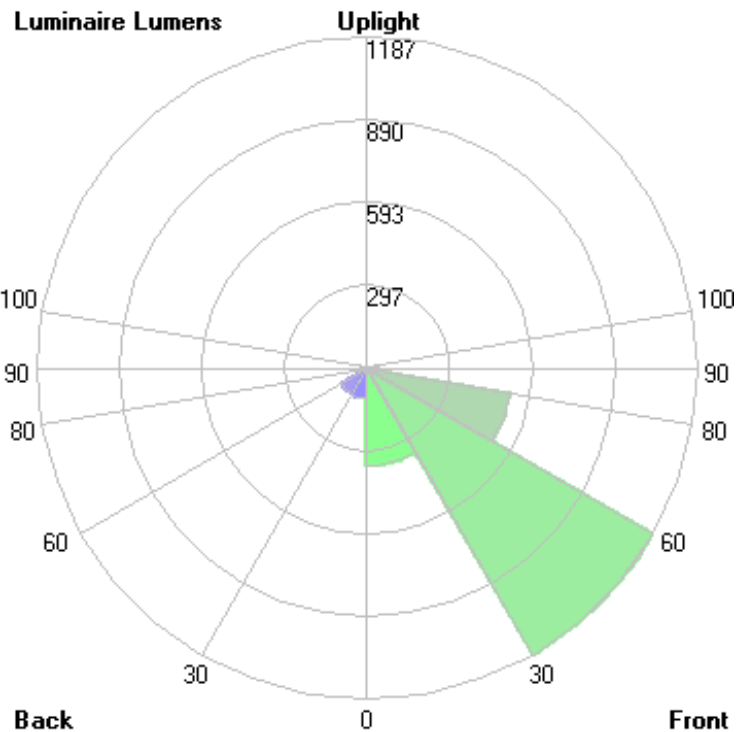
| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 349.8  | N.A.  | 14.9  |
| FM (30-60)   | 1186.9 | N.A.  | 50.6  |
| FH (60-80)   | 521.5  | N.A.  | 22.2  |
| FVH (80-90)  | 39.4   | N.A.  | 1.7   |
| BL (0-30)    | 110.6  | N.A.  | 4.7   |
| BM (30-60)   | 106.3  | N.A.  | 4.5   |
| BH (60-80)   | 28.3   | N.A.  | 1.2   |
| BVH (80-90)  | 2.0    | N.A.  | 0.1   |
| UL (90-100)  | 0.1    | N.A.  | 0.0   |
| UH (100-180) | 0.0    | N.A.  | 0.0   |
| Total        | 2344.9 | N.A.  | 100.0 |

## BUG Rating B1-U0\*-G1

\*Fixture has measured rating of U1 due to testing above 90 degrees and stray light from reflection off of the fixture body. Upon visual inspection of luminaire, it has a flat lens and opaque sides, there is no significant uplift (<0.5%), and it has therefore been assigned a value of U0. Consult factory for more information.



Grid Spacing: 5 ft.



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