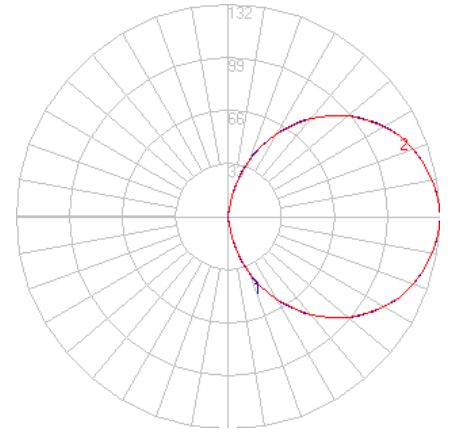
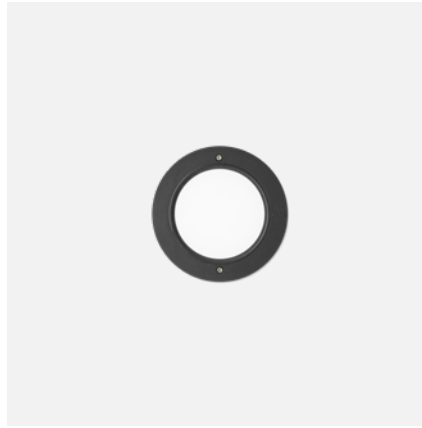


# BEGA

File: 24011K4\_BEGA\_IES.ies

TEST: BE\_24011K4  
TEST LAB: BEGA  
DATE: 4/26/2016  
LUMINAIRE: 24 011K4  
LAMP: 3.8W LED



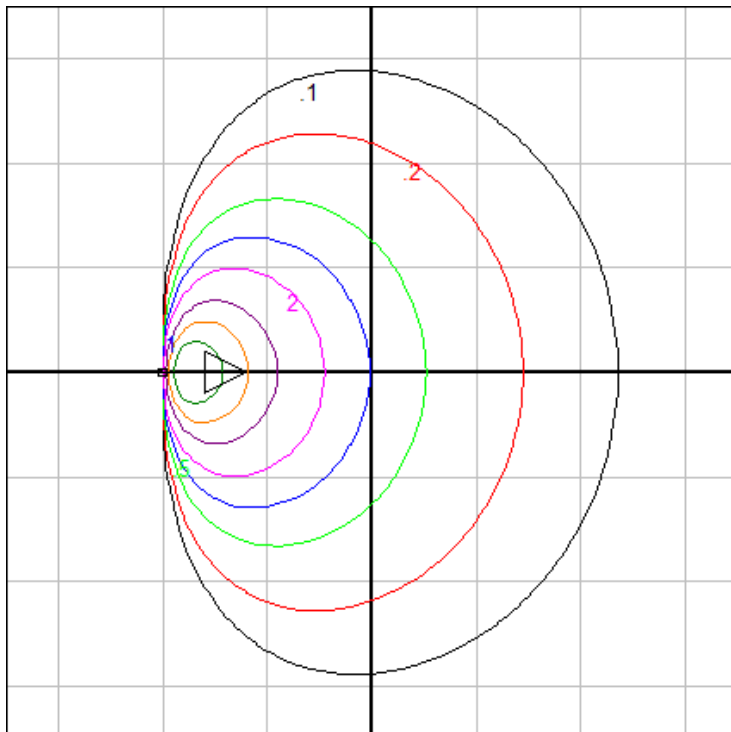
## Characteristics

|                                    |                   |
|------------------------------------|-------------------|
| IES Classification                 | N.A.              |
| Longitudinal Classification        | N.A.              |
| Lumens Per Lamp                    | N.A. (absolute)   |
| Total Lamp Lumens                  | N.A. (absolute)   |
| Luminaire Lumens                   | 379               |
| Downward Total Efficiency          | N.A.              |
| Total Luminaire Efficiency         | N.A.              |
| Luminaire Efficacy Rating (LER)    | 63                |
| Total Luminaire Watts              | 6                 |
| Ballast Factor                     | 1.00              |
| Upward Waste Light Ratio           | 0.50              |
| Max. Cd.                           | 132.2 (0H, 90V)   |
| Max. Cd. (<90 Vert.)               | 131.8 (0H, 87.5V) |
| Max. Cd. (At 90 Deg. Vert.)        | 132.2 (34.9%Lum)  |
| Max. Cd. (80 to <90 Deg. Vert.)    | 131.8 (34.8%Lum)  |
| Cutoff Classification (deprecated) | N.A. (absolute)   |

## Lum. Classification System (LCS)

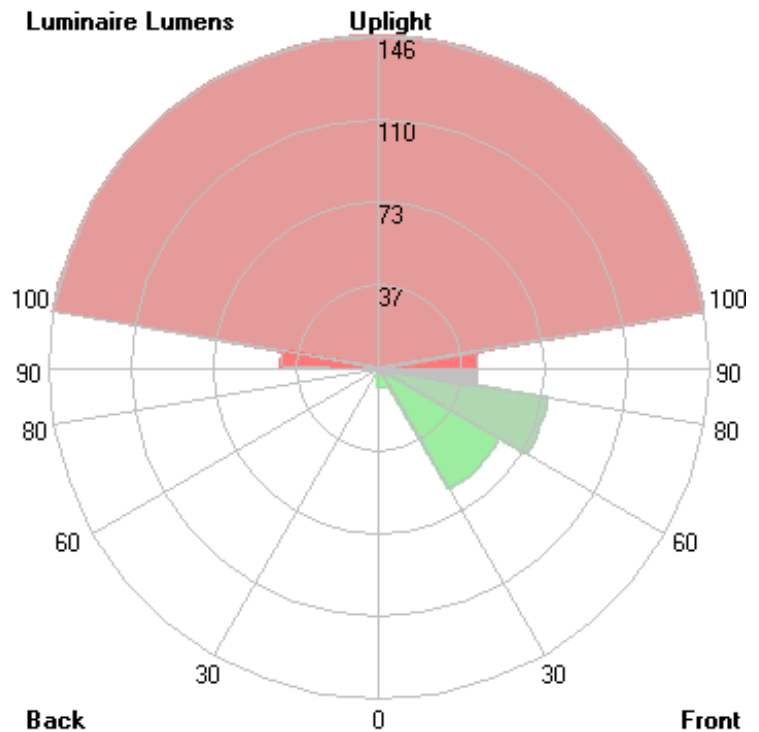
| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 8.7    | N.A.  | 2.3   |
| FM (30-60)   | 61.8   | N.A.  | 16.3  |
| FH (60-80)   | 75.7   | N.A.  | 20.0  |
| FVH (80-90)  | 43.2   | N.A.  | 11.4  |
| BL (0-30)    | < 0.05 | N.A.  | 0.0   |
| BM (30-60)   | < 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)  | 43.2   | N.A.  | 11.4  |
| UH (100-180) | 146.2  | N.A.  | 38.6  |
| Total        | 378.8  | N.A.  | 100.0 |

**BUG Rating** B0-U3-G1



Mounting Height: 1 ft.

Grid Spacing: 2.5 ft.



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

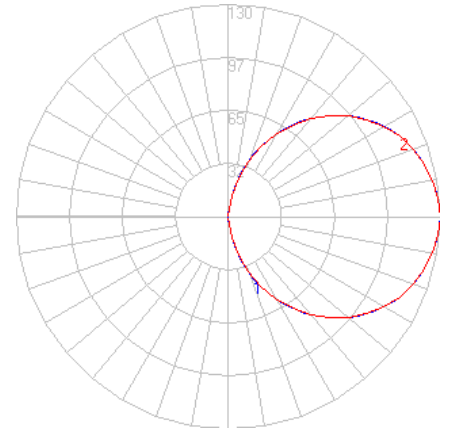
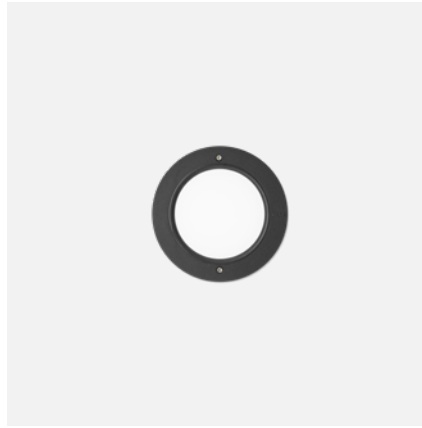
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# BEGA

File: 24011K35\_BEGA\_IES.ies

TEST: BE\_24011K4  
TEST LAB: BEGA  
DATE: 4/26/2016  
LUMINAIRE: 24 011K35  
LAMP: 3.8W LED



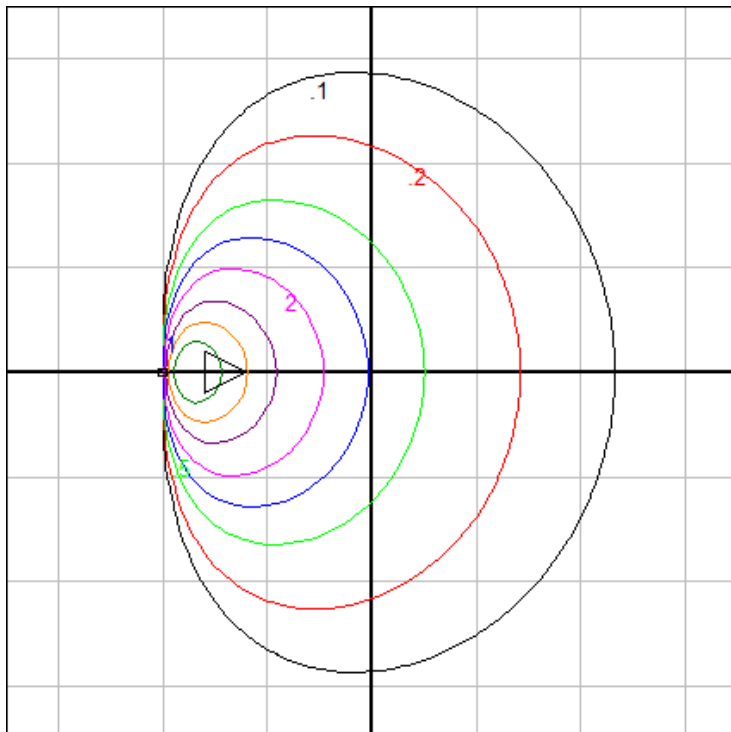
## Characteristics

|                                    |                     |
|------------------------------------|---------------------|
| IES Classification                 | N.A.                |
| Longitudinal Classification        | N.A.                |
| Lumens Per Lamp                    | N.A. (absolute)     |
| Total Lamp Lumens                  | N.A. (absolute)     |
| Luminaire Lumens                   | 371                 |
| Downward Total Efficiency          | N.A.                |
| Total Luminaire Efficiency         | N.A.                |
| Luminaire Efficacy Rating (LER)    | 62                  |
| Total Luminaire Watts              | 6                   |
| Ballast Factor                     | 1.00                |
| Upward Waste Light Ratio           | 0.50                |
| Max. Cd.                           | 129.556 (0H, 90V)   |
| Max. Cd. (<90 Vert.)               | 129.164 (0H, 87.5V) |
| Max. Cd. (At 90 Deg. Vert.)        | 129.556 (34.9%Lum)  |
| Max. Cd. (80 to <90 Deg. Vert.)    | 129.164 (34.8%Lum)  |
| Cutoff Classification (deprecated) | N.A. (absolute)     |

## Lum. Classification System (LCS)

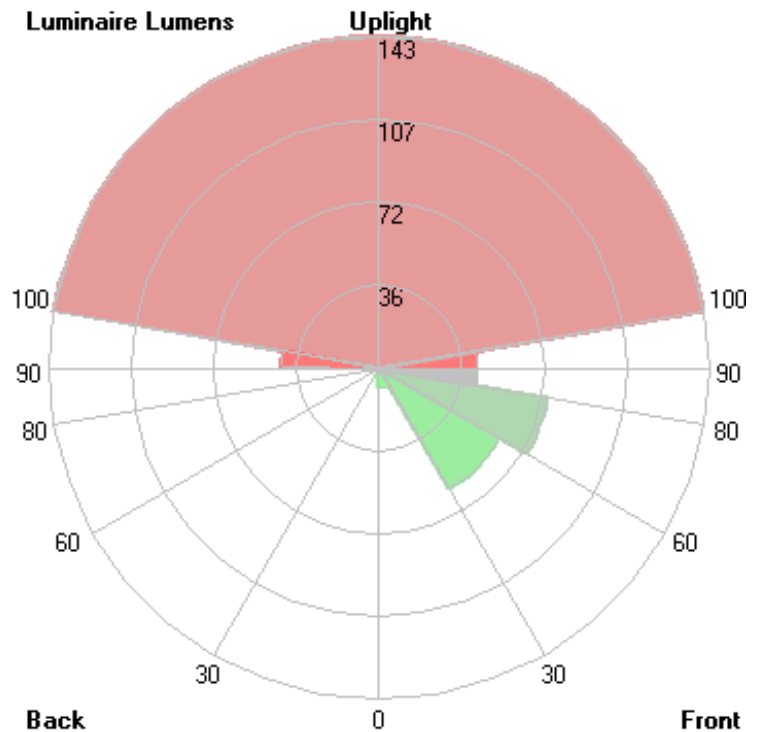
| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 8.5    | N.A.  | 2.3   |
| FM (30-60)   | 60.6   | N.A.  | 16.3  |
| FH (60-80)   | 74.2   | N.A.  | 20.0  |
| FVH (80-90)  | 42.4   | N.A.  | 11.4  |
| BL (0-30)    | < 0.05 | N.A.  | 0.0   |
| BM (30-60)   | < 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)  | 42.4   | N.A.  | 11.4  |
| UH (100-180) | 143.3  | N.A.  | 38.6  |
| Total        | 371.4  | N.A.  | 100.0 |

BUG Rating B0-U3-G1



Mounting Height: 1 ft.

Grid Spacing: 2.5 ft.



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

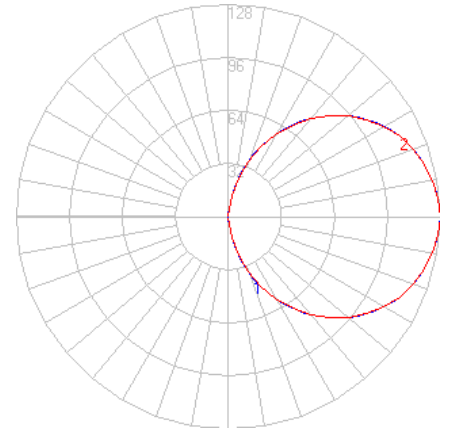
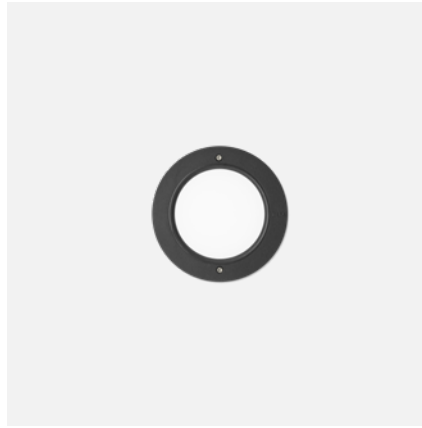
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# BEGA

File: 24011K3\_BEGA\_IES.ies

TEST: BE\_24011K4  
TEST LAB: BEGA  
DATE: 4/26/2016  
LUMINAIRE: 24 011K3  
LAMP: 3.8W LED



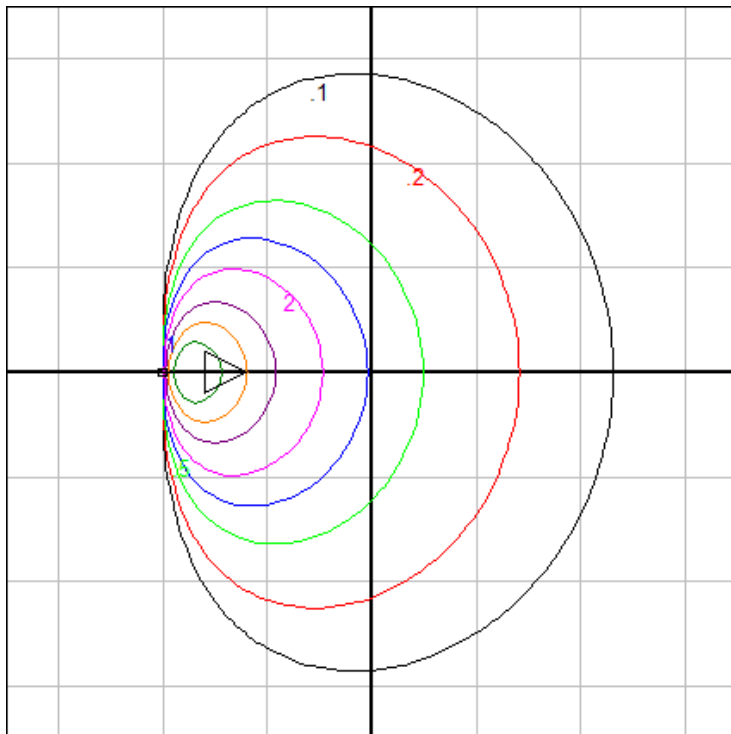
## Characteristics

|                                    |                     |
|------------------------------------|---------------------|
| IES Classification                 | N.A.                |
| Longitudinal Classification        | N.A.                |
| Lumens Per Lamp                    | N.A. (absolute)     |
| Total Lamp Lumens                  | N.A. (absolute)     |
| Luminaire Lumens                   | 368                 |
| Downward Total Efficiency          | N.A.                |
| Total Luminaire Efficiency         | N.A.                |
| Luminaire Efficacy Rating (LER)    | 61                  |
| Total Luminaire Watts              | 6                   |
| Ballast Factor                     | 1.00                |
| Upward Waste Light Ratio           | 0.50                |
| Max. Cd.                           | 128.234 (0H, 90V)   |
| Max. Cd. (<90 Vert.)               | 127.846 (0H, 87.5V) |
| Max. Cd. (At 90 Deg. Vert.)        | 128.234 (34.8%Lum)  |
| Max. Cd. (80 to <90 Deg. Vert.)    | 127.846 (34.7%Lum)  |
| Cutoff Classification (deprecated) | N.A. (absolute)     |

## Lum. Classification System (LCS)

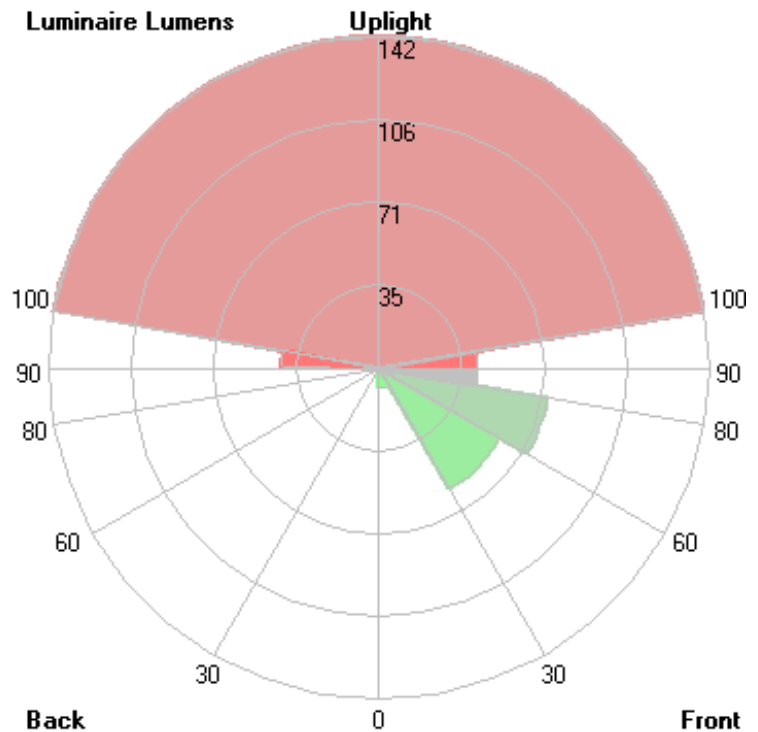
| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 8.4    | N.A.  | 2.3   |
| FM (30-60)   | 59.9   | N.A.  | 16.3  |
| FH (60-80)   | 73.4   | N.A.  | 20.0  |
| FVH (80-90)  | 41.9   | N.A.  | 11.4  |
| BL (0-30)    | < 0.05 | N.A.  | 0.0   |
| BM (30-60)   | < 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)  | 41.9   | N.A.  | 11.4  |
| UH (100-180) | 141.8  | N.A.  | 38.6  |
| Total        | 367.3  | N.A.  | 100.0 |

**BUG Rating** B0-U3-G1



Mounting Height: 1 ft.

Grid Spacing: 2.5 ft.



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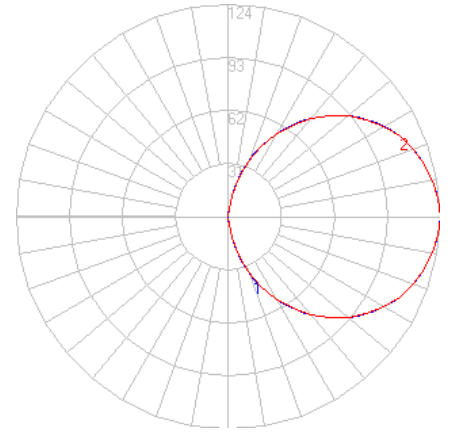
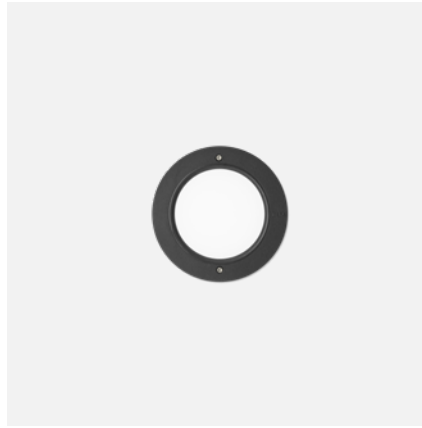
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# BEGA

File: 24011K27\_BEGA\_IES.ies

TEST: BE\_24011K4  
TEST LAB: BEGA  
DATE: 4/26/2016  
LUMINAIRE: 24 011K27  
LAMP: 3.8W LED



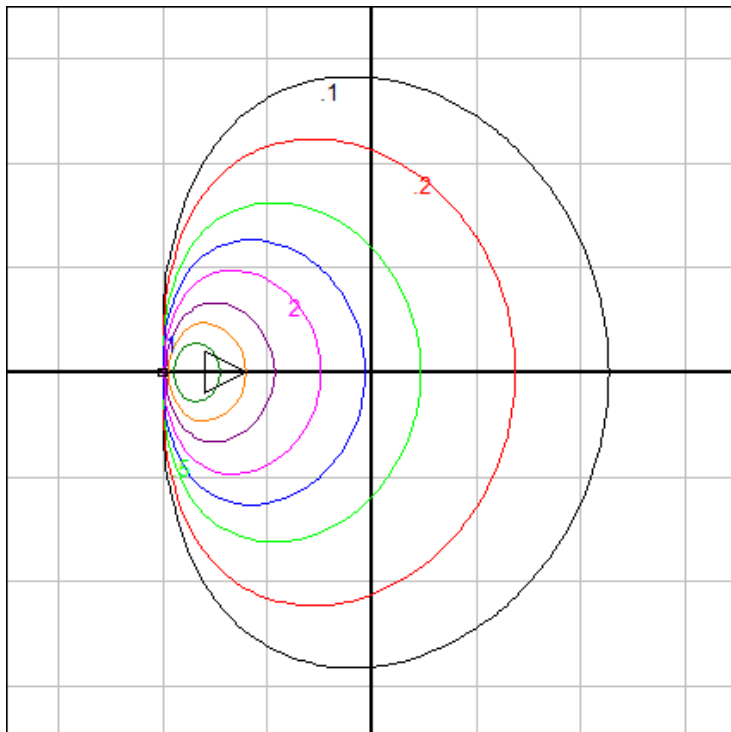
## Characteristics

|                                    |                     |
|------------------------------------|---------------------|
| IES Classification                 | N.A.                |
| Longitudinal Classification        | N.A.                |
| Lumens Per Lamp                    | N.A. (absolute)     |
| Total Lamp Lumens                  | N.A. (absolute)     |
| Luminaire Lumens                   | 356                 |
| Downward Total Efficiency          | N.A.                |
| Total Luminaire Efficiency         | N.A.                |
| Luminaire Efficacy Rating (LER)    | 59                  |
| Total Luminaire Watts              | 6                   |
| Ballast Factor                     | 1.00                |
| Upward Waste Light Ratio           | 0.50                |
| Max. Cd.                           | 124.268 (0H, 90V)   |
| Max. Cd. (<90 Vert.)               | 123.892 (0H, 87.5V) |
| Max. Cd. (At 90 Deg. Vert.)        | 124.268 (34.9%Lum)  |
| Max. Cd. (80 to <90 Deg. Vert.)    | 123.892 (34.8%Lum)  |
| Cutoff Classification (deprecated) | N.A. (absolute)     |

## Lum. Classification System (LCS)

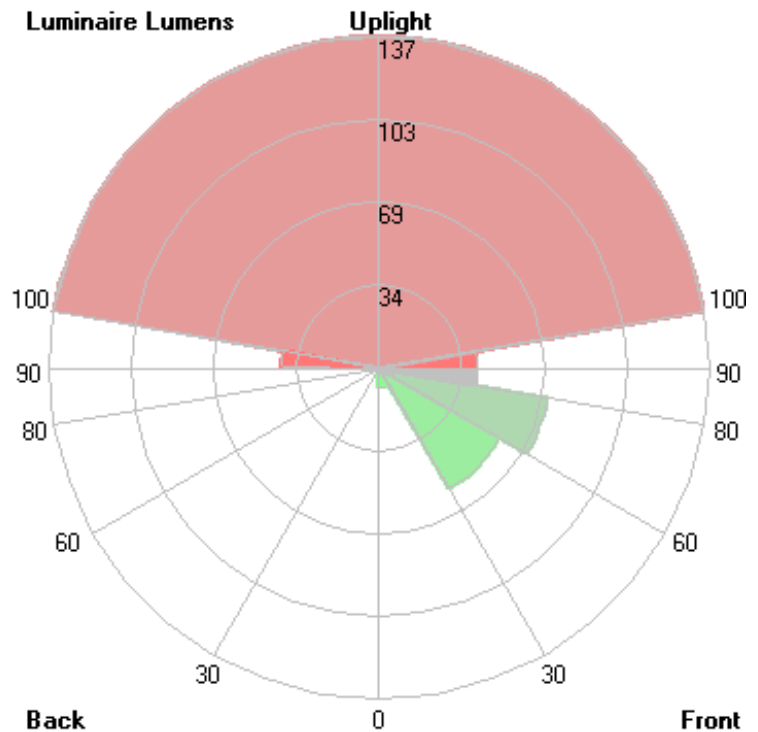
| LCS Zone     | Lumens | %Lamp | %Lum  |
|--------------|--------|-------|-------|
| FL (0-30)    | 8.2    | N.A.  | 2.3   |
| FM (30-60)   | 58.1   | N.A.  | 16.3  |
| FH (60-80)   | 71.2   | N.A.  | 20.0  |
| FVH (80-90)  | 40.6   | N.A.  | 11.4  |
| BL (0-30)    | < 0.05 | N.A.  | 0.0   |
| BM (30-60)   | < 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)  | 40.6   | N.A.  | 11.4  |
| UH (100-180) | 137.4  | N.A.  | 38.6  |
| Total        | 356.1  | N.A.  | 100.0 |

BUG Rating B0-U3-G1



Mounting Height: 1 ft.

Grid Spacing: 2.5 ft.



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