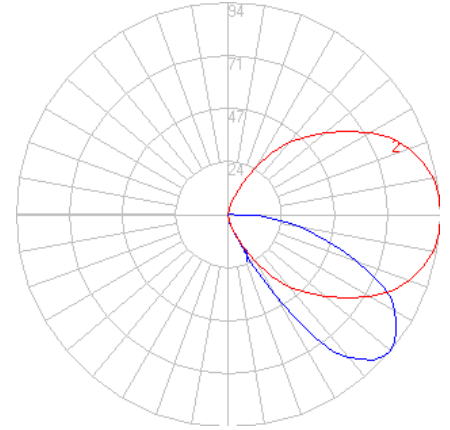
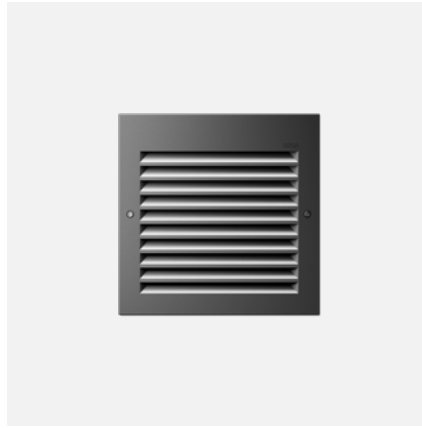


BEGA

File: 24233K4_BEGA_IES.ies

TEST: BE_24233K4
TEST LAB: BEGA
DATE: 5/4/2017
LUMINAIRE: 24 233K4
LAMP: 5.6W LED



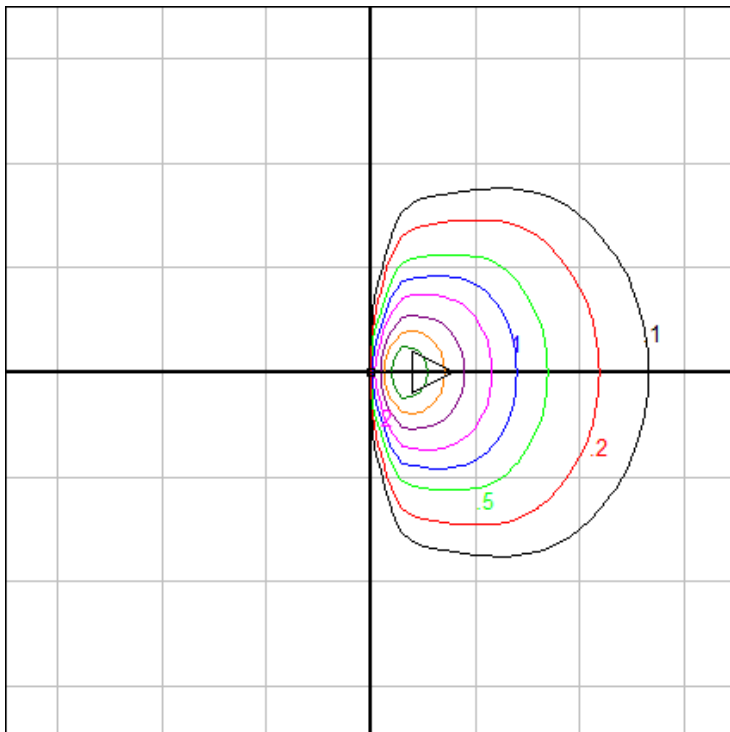
Characteristics

| | |
|------------------------------------|-----------------|
| IES Classification | Type IV |
| Longitudinal Classification | Very Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 94 |
| Downward Total Efficiency | N.A. |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 12 |
| Total Luminaire Watts | 8 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.01 |
| Max. Cd. | 94.4 (0H, 50V) |
| Max. Cd. (<90 Vert.) | 94.4 (0H, 50V) |
| Max. Cd. (At 90 Deg. Vert.) | 4.4 (4.7%Lum) |
| Max. Cd. (80 to <90 Deg. Vert.) | 33.7 (35.9%Lum) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

Lum. Classification System (LCS)

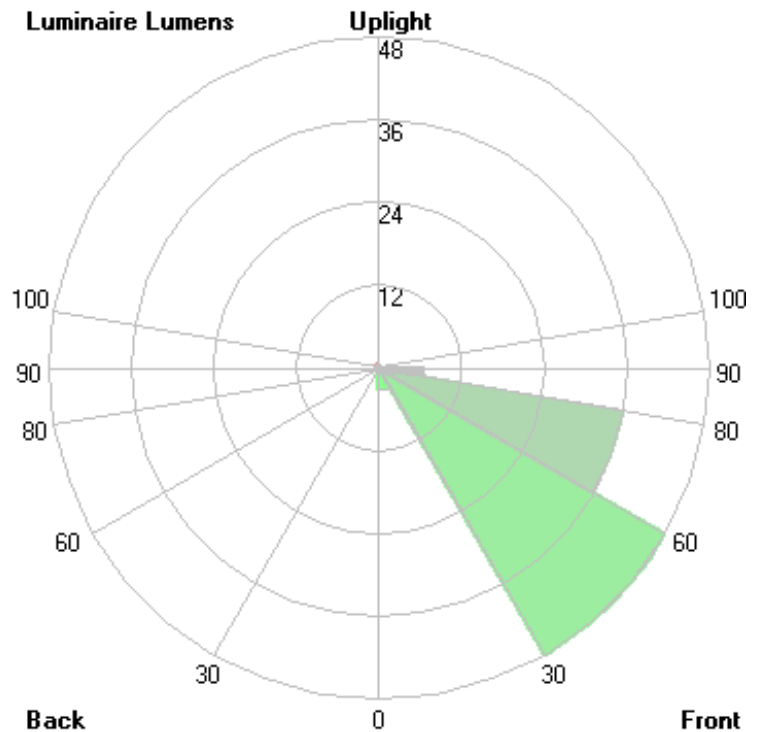
| LCS Zone | Lumens | %Lamp | %Lum |
|--------------|--------|-------|-------|
| FL (0-30) | 3.2 | N.A. | 3.4 |
| FM (30-60) | 47.7 | N.A. | 50.8 |
| FH (60-80) | 35.7 | N.A. | 38.1 |
| FVH (80-90) | 6.4 | N.A. | 6.8 |
| BL (0-30) | 0.0 | N.A. | 0.0 |
| BM (30-60) | 0.0 | N.A. | 0.0 |
| BH (60-80) | 0.0 | N.A. | 0.0 |
| BVH (80-90) | 0.0 | N.A. | 0.0 |
| UL (90-100) | 0.5 | N.A. | 0.5 |
| UH (100-180) | 0.4 | N.A. | 0.5 |
| Total | 93.9 | N.A. | 100.0 |

BUG Rating B0-U1-G0



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.

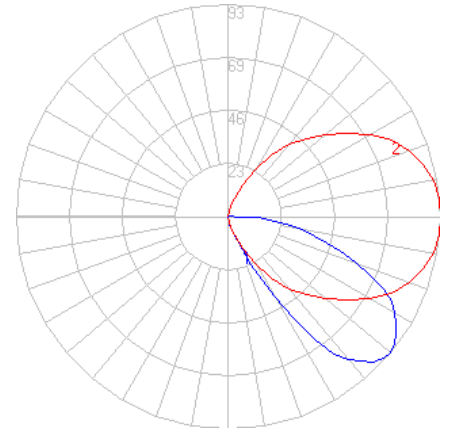
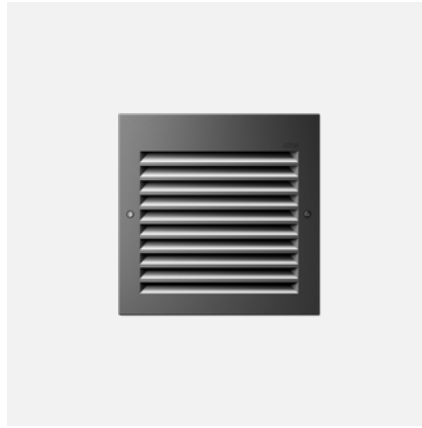
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BEGA

File: 24233K35_BEGA_IES.ies

TEST: BE_24233K4
TEST LAB: BEGA
DATE: 5/4/2017
LUMINAIRE: 24 233K35
LAMP: 5.6W LED



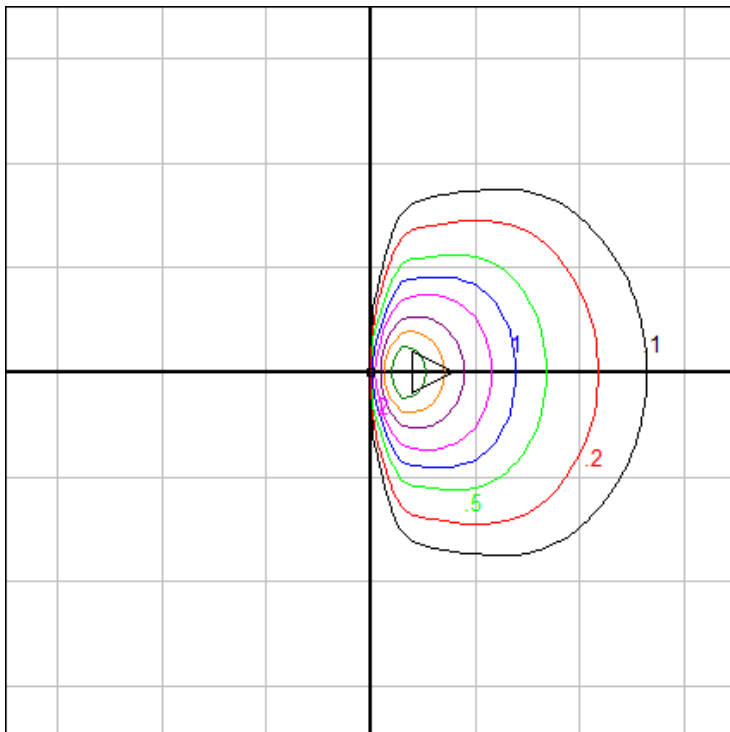
Characteristics

| | |
|------------------------------------|-------------------|
| IES Classification | Type IV |
| Longitudinal Classification | Very Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 92 |
| Downward Total Efficiency | N.A. |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 12 |
| Total Luminaire Watts | 8 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.01 |
| Max. Cd. | 92.512 (0H, 50V) |
| Max. Cd. (<90 Vert.) | 92.512 (0H, 50V) |
| Max. Cd. (At 90 Deg. Vert.) | 4.312 (4.7%Lum) |
| Max. Cd. (80 to <90 Deg. Vert.) | 33.026 (35.9%Lum) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

Lum. Classification System (LCS)

| LCS Zone | Lumens | %Lamp | %Lum |
|--------------|--------|-------|-------|
| FL (0-30) | 3.1 | N.A. | 3.4 |
| FM (30-60) | 46.7 | N.A. | 50.8 |
| FH (60-80) | 35.0 | N.A. | 38.1 |
| FVH (80-90) | 6.3 | N.A. | 6.8 |
| BL (0-30) | 0.0 | N.A. | 0.0 |
| BM (30-60) | 0.0 | N.A. | 0.0 |
| BH (60-80) | 0.0 | N.A. | 0.0 |
| BVH (80-90) | 0.0 | N.A. | 0.0 |
| UL (90-100) | 0.5 | N.A. | 0.5 |
| UH (100-180) | 0.4 | N.A. | 0.5 |
| Total | 92.0 | N.A. | 100.0 |

BUG Rating B0-U1-G0

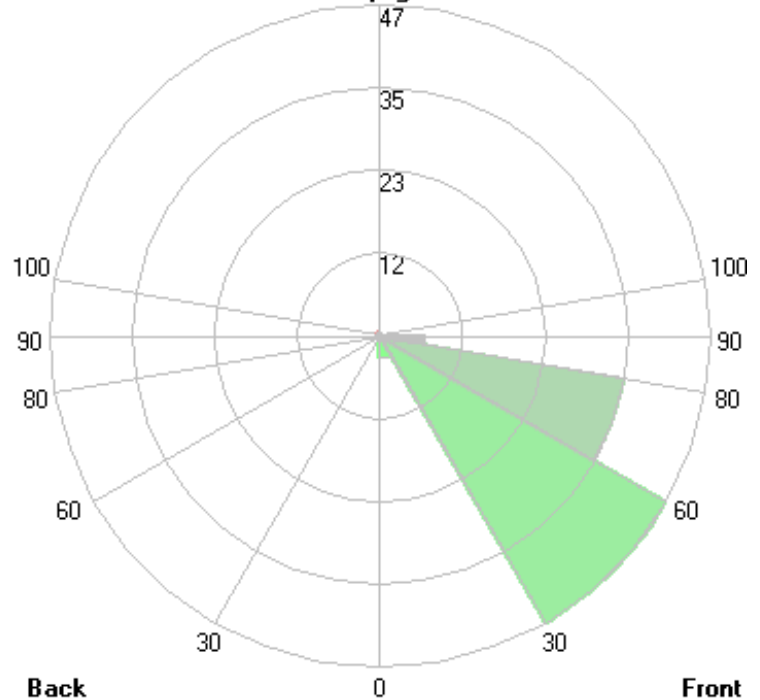


Mounting Height: 1 ft.

Grid Spacing: 2.5 ft.

Luminaire Lumens

Uplight



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

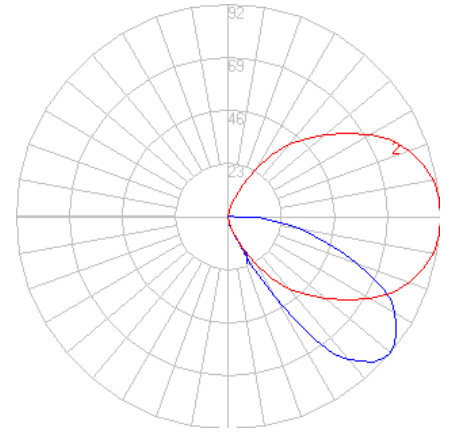
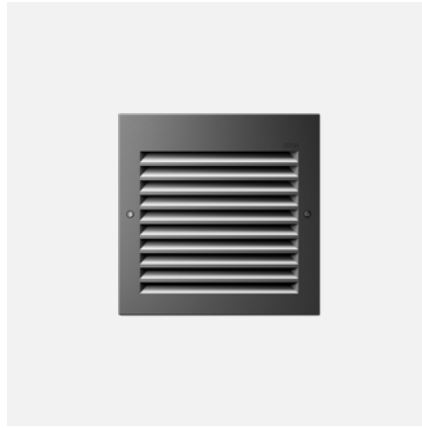
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BEGA

File: 24233K3_BEGA_IES.ies

TEST: BE_24233K4
TEST LAB: BEGA
DATE: 5/4/2017
LUMINAIRE: 24 233K3
LAMP: 5.6W LED



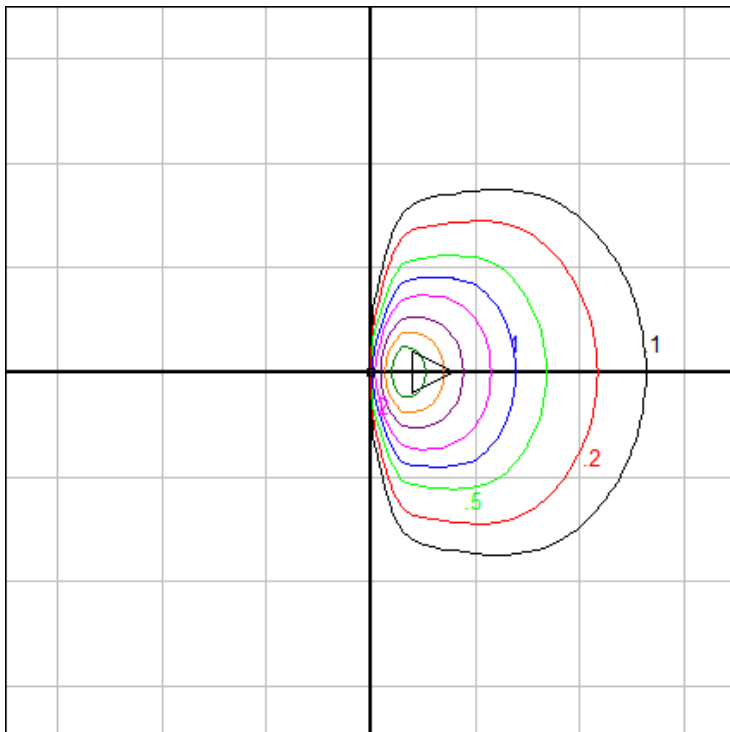
Characteristics

| | |
|------------------------------------|-------------------|
| IES Classification | Type IV |
| Longitudinal Classification | Very Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 91 |
| Downward Total Efficiency | N.A. |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 11 |
| Total Luminaire Watts | 8 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.01 |
| Max. Cd. | 91.568 (0H, 50V) |
| Max. Cd. (<90 Vert.) | 91.568 (0H, 50V) |
| Max. Cd. (At 90 Deg. Vert.) | 4.268 (4.7%Lum) |
| Max. Cd. (80 to <90 Deg. Vert.) | 32.689 (35.9%Lum) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

Lum. Classification System (LCS)

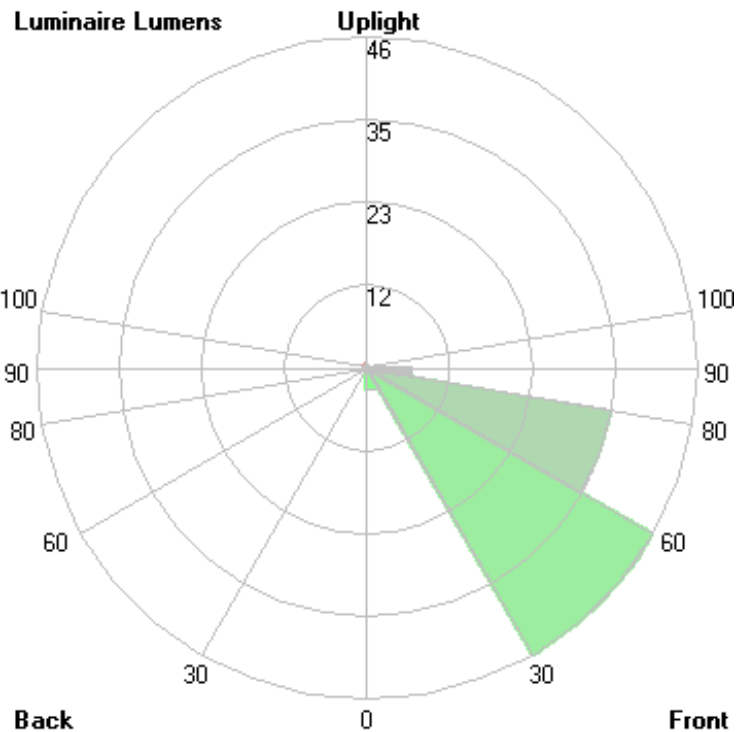
| LCS Zone | Lumens | %Lamp | %Lum |
|--------------|--------|-------|-------|
| FL (0-30) | 3.1 | N.A. | 3.4 |
| FM (30-60) | 46.2 | N.A. | 50.8 |
| FH (60-80) | 34.7 | N.A. | 38.0 |
| FVH (80-90) | 6.2 | N.A. | 6.8 |
| BL (0-30) | 0.0 | N.A. | 0.0 |
| BM (30-60) | 0.0 | N.A. | 0.0 |
| BH (60-80) | 0.0 | N.A. | 0.0 |
| BVH (80-90) | 0.0 | N.A. | 0.0 |
| UL (90-100) | 0.5 | N.A. | 0.5 |
| UH (100-180) | 0.4 | N.A. | 0.5 |
| Total | 91.1 | N.A. | 100.0 |

BUG Rating B0-U1-G0



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.

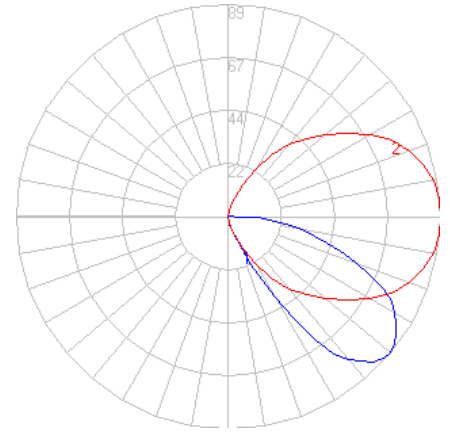
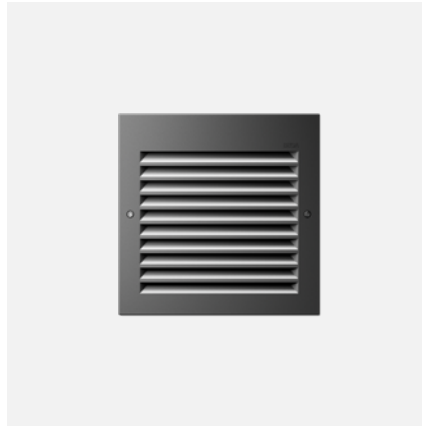
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BEGA

File: 24233K27_BEGA_IES.ies

TEST: BE_24233K4
TEST LAB: BEGA
DATE: 5/4/2017
LUMINAIRE: 24 233K27
LAMP: 5.6W LED



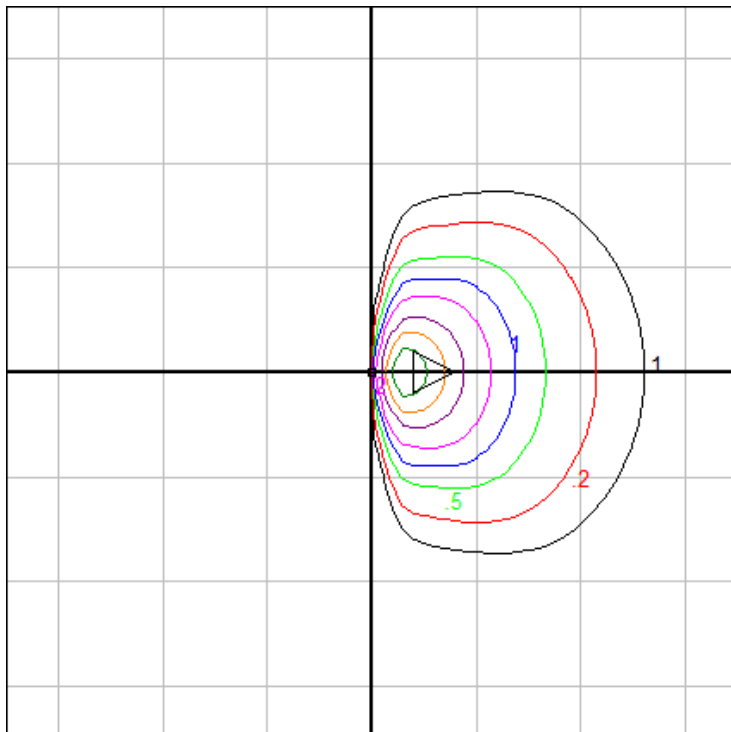
Characteristics

| | |
|------------------------------------|-------------------|
| IES Classification | Type IV |
| Longitudinal Classification | Very Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 88 |
| Downward Total Efficiency | N.A. |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 11 |
| Total Luminaire Watts | 8 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.01 |
| Max. Cd. | 88.736 (0H, 50V) |
| Max. Cd. (<90 Vert.) | 88.736 (0H, 50V) |
| Max. Cd. (At 90 Deg. Vert.) | 4.136 (4.7%Lum) |
| Max. Cd. (80 to <90 Deg. Vert.) | 31.678 (36.0%Lum) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

Lum. Classification System (LCS)

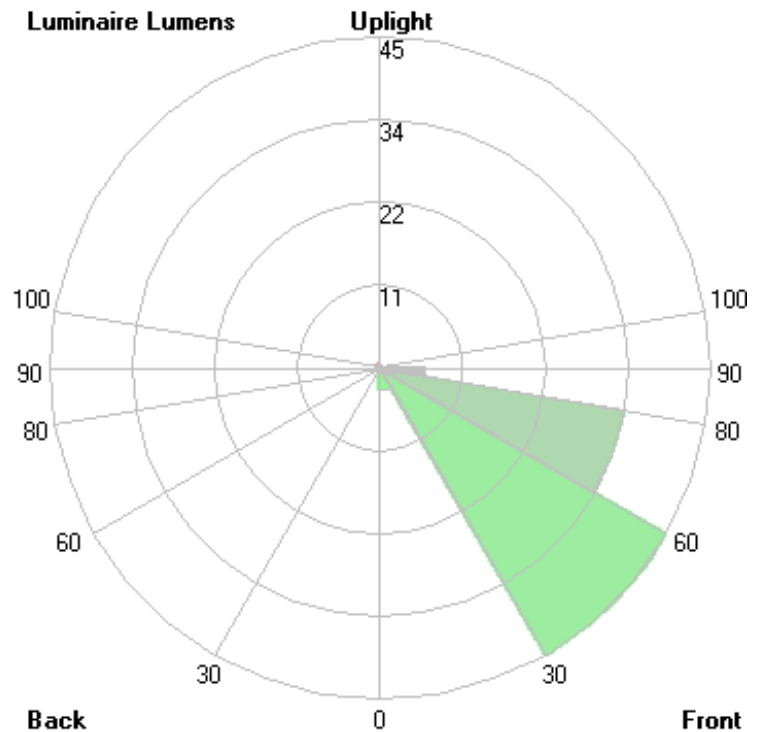
| LCS Zone | Lumens | %Lamp | %Lum |
|--------------|--------|-------|-------|
| FL (0-30) | 3.0 | N.A. | 3.4 |
| FM (30-60) | 44.8 | N.A. | 50.8 |
| FH (60-80) | 33.6 | N.A. | 38.0 |
| FVH (80-90) | 6.0 | N.A. | 6.8 |
| BL (0-30) | 0.0 | N.A. | 0.0 |
| BM (30-60) | 0.0 | N.A. | 0.0 |
| BH (60-80) | 0.0 | N.A. | 0.0 |
| BVH (80-90) | 0.0 | N.A. | 0.0 |
| UL (90-100) | 0.5 | N.A. | 0.5 |
| UH (100-180) | 0.4 | N.A. | 0.5 |
| Total | 88.3 | N.A. | 100.0 |

BUG Rating B0-U1-G0



Mounting Height: 1 ft.

Grid Spacing: 2.5 ft.



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