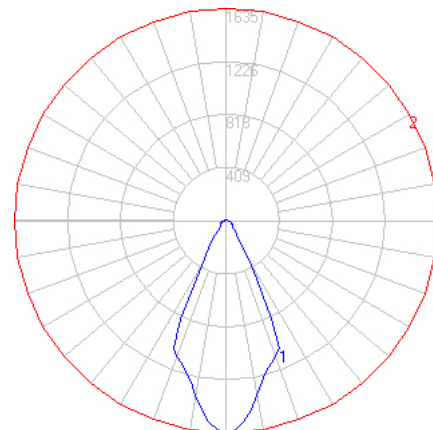


BEGA

File: 50639K4_BEGA_IES.ies

TEST: BE_50639K4
TEST LAB: BEGA
DATE: 11/27/2018
LUMINAIRE: 50 639K4
LAMP: 11.5W LED

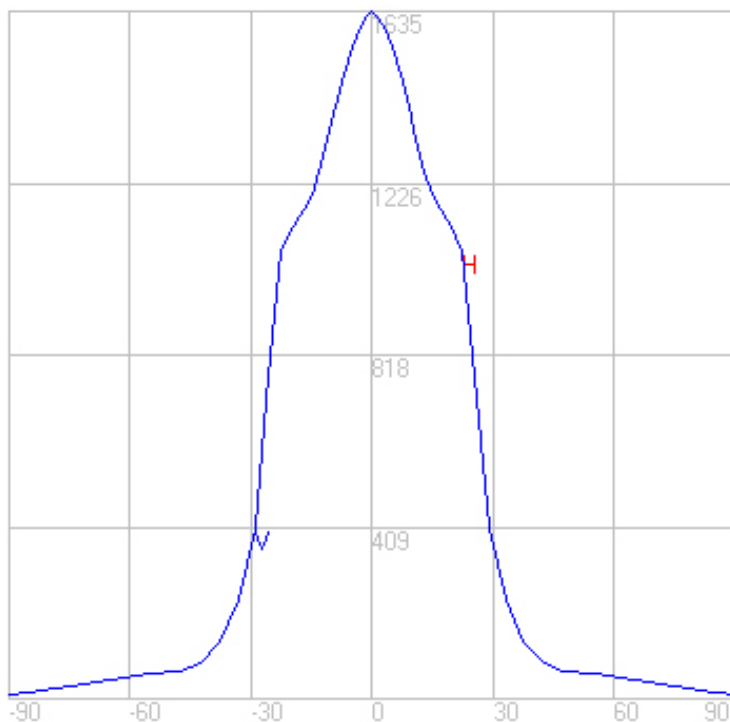
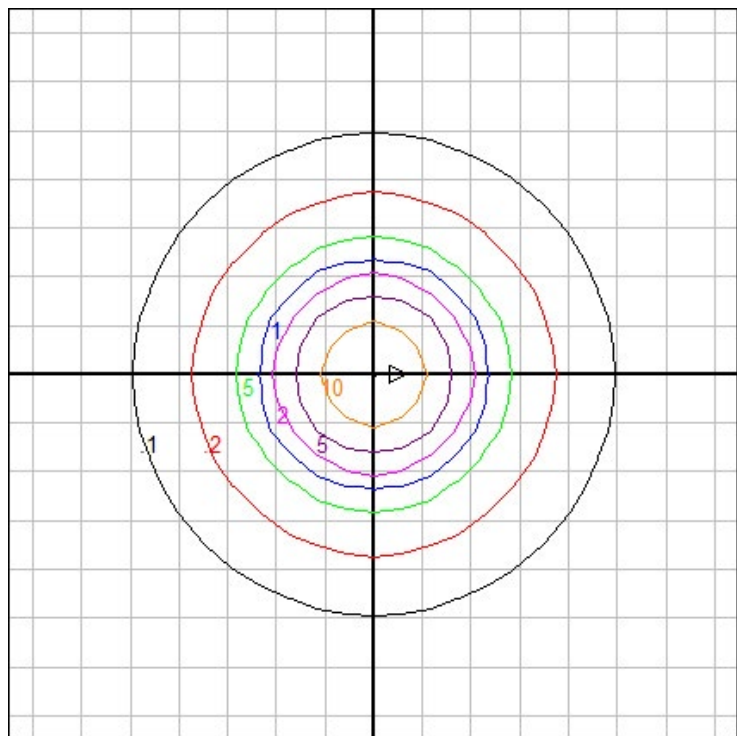


Characteristics

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1212 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 87 |
| Total Luminaire Watts | 14 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.84 |
| Spacing Criterion (90-270) | 0.84 |
| Spacing Criterion (Diagonal) | 0.72 |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 0.00 ft |
| Luminous Width (90-270) | 0.44 ft (Diameter) |
| Luminous Height | 0.21 ft |

Zonal Lumen Summary

| Zone | Lumens |
|---------|--------|
| 0-10 | 142.57 |
| 10-20 | 341.57 |
| 20-30 | 350.38 |
| 30-40 | 121.18 |
| 40-50 | 59.87 |
| 50-60 | 51.37 |
| 60-70 | 44.18 |
| 70-80 | 31.31 |
| 80-90 | 18.11 |
| 90-100 | 12.81 |
| 100-110 | 11.54 |
| 110-120 | 9.62 |
| 120-130 | 7.47 |
| 130-140 | 5.23 |
| 140-150 | 3.20 |
| 150-160 | 1.49 |
| 160-170 | 0.39 |
| 170-180 | 0.04 |



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

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

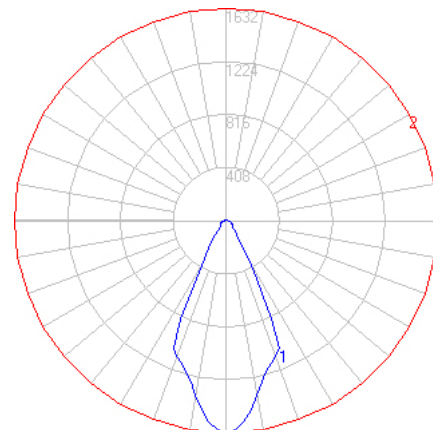
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BEGA

File: 50639K35_BEGA_IES.ies

TEST: BE_50639K4
TEST LAB: BEGA
DATE: 11/27/2018
LUMINAIRE: 50 639K35
LAMP: 11.5W LED

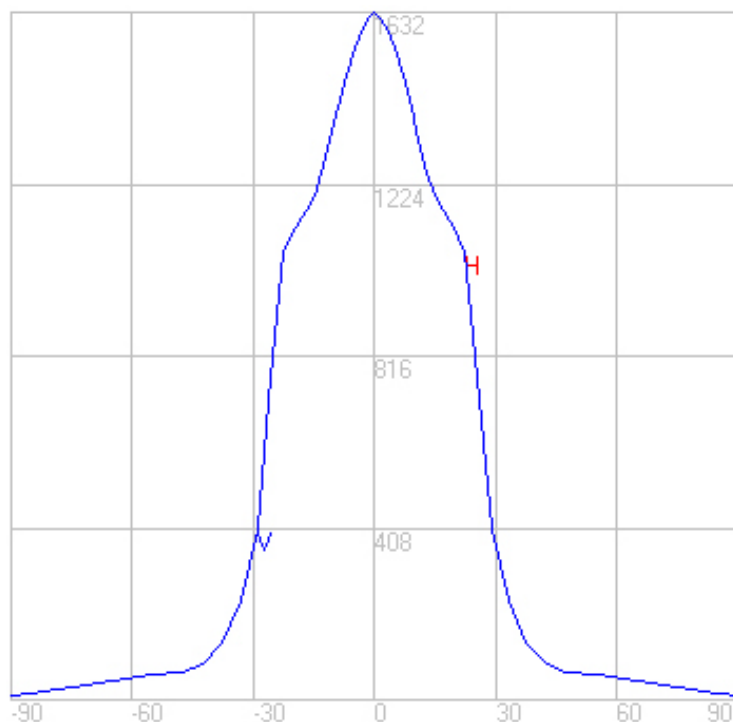
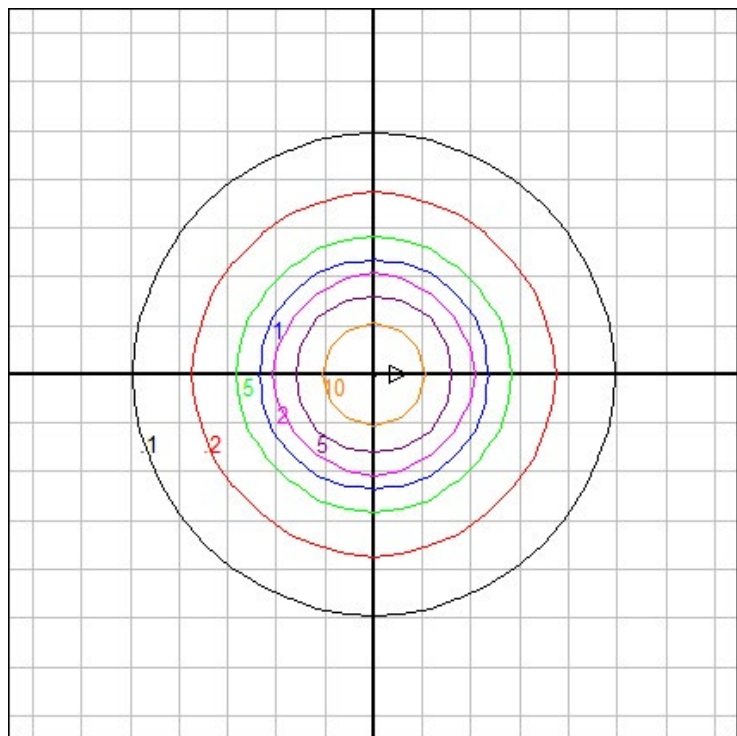


Characteristics

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1210 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 86 |
| Total Luminaire Watts | 14 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.84 |
| Spacing Criterion (90-270) | 0.84 |
| Spacing Criterion (Diagonal) | 0.72 |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 0.00 ft |
| Luminous Width (90-270) | 0.44 ft (Diameter) |
| Luminous Height | 0.21 ft |

Zonal Lumen Summary

| Zone | Lumens |
|---------|--------|
| 0-10 | 142.28 |
| 10-20 | 340.89 |
| 20-30 | 349.68 |
| 30-40 | 120.94 |
| 40-50 | 59.75 |
| 50-60 | 51.27 |
| 60-70 | 44.09 |
| 70-80 | 31.24 |
| 80-90 | 18.08 |
| 90-100 | 12.78 |
| 100-110 | 11.51 |
| 110-120 | 9.60 |
| 120-130 | 7.46 |
| 130-140 | 5.22 |
| 140-150 | 3.20 |
| 150-160 | 1.49 |
| 160-170 | 0.39 |
| 170-180 | 0.04 |



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

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

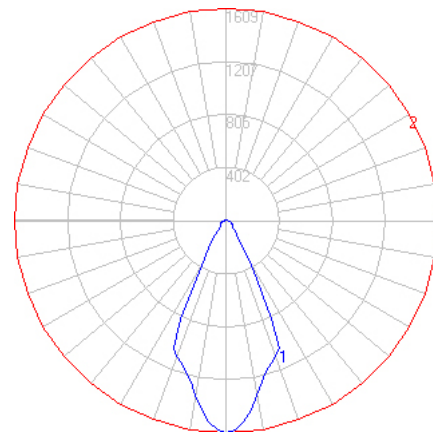
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BEGA

File: 50639K3_BEGA_IES.ies

TEST: BE_50639K4
 TEST LAB: BEGA
 DATE: 11/27/2018
 LUMINAIRE: 50 639K3
 LAMP: 11.5W LED

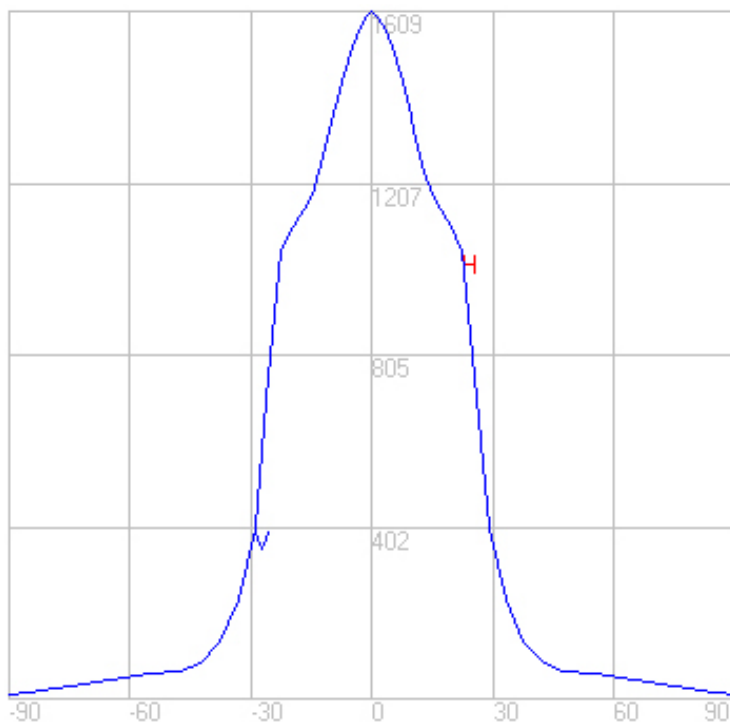
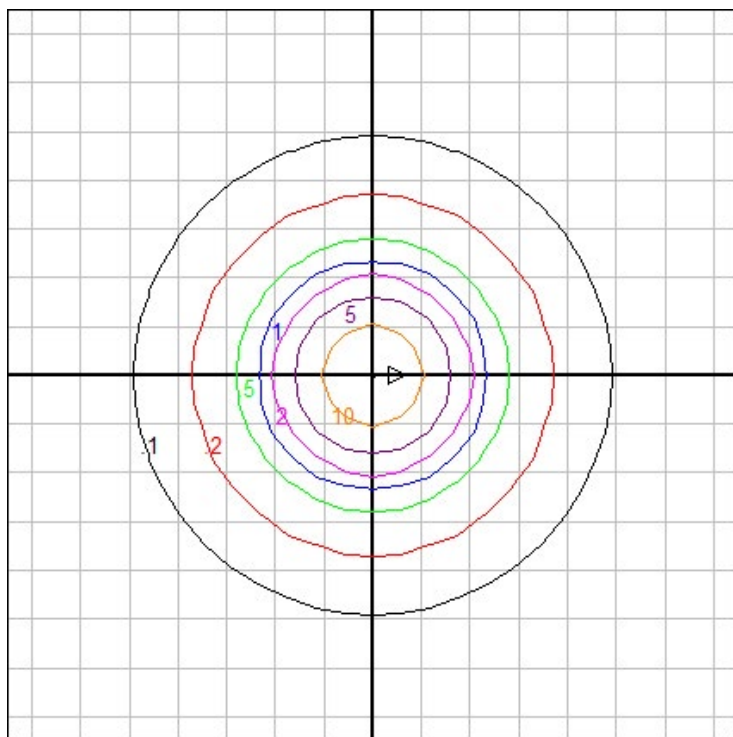


Characteristics

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1193 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 85 |
| Total Luminaire Watts | 14 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.84 |
| Spacing Criterion (90-270) | 0.84 |
| Spacing Criterion (Diagonal) | 0.72 |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 0.00 ft |
| Luminous Width (90-270) | 0.44 ft (Diameter) |
| Luminous Height | 0.21 ft |

Zonal Lumen Summary

| Zone | Lumens |
|---------|--------|
| 0-10 | 140.29 |
| 10-20 | 336.10 |
| 20-30 | 344.77 |
| 30-40 | 119.24 |
| 40-50 | 58.92 |
| 50-60 | 50.55 |
| 60-70 | 43.48 |
| 70-80 | 30.81 |
| 80-90 | 17.82 |
| 90-100 | 12.60 |
| 100-110 | 11.35 |
| 110-120 | 9.47 |
| 120-130 | 7.35 |
| 130-140 | 5.14 |
| 140-150 | 3.15 |
| 150-160 | 1.47 |
| 160-170 | 0.39 |
| 170-180 | 0.04 |



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

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

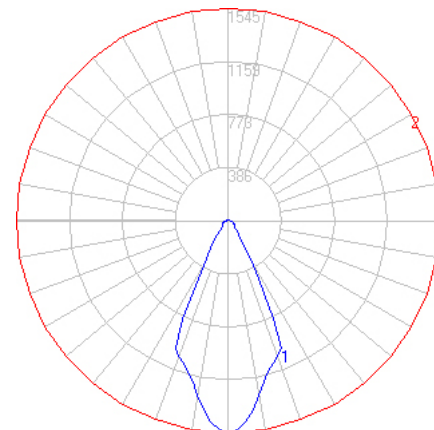
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BEGA

File: 50639K27_BEGA_IES.ies

TEST: BE_50639K4
TEST LAB: BEGA
DATE: 11/27/2018
LUMINAIRE: 50 639K27
LAMP: 11.5W LED

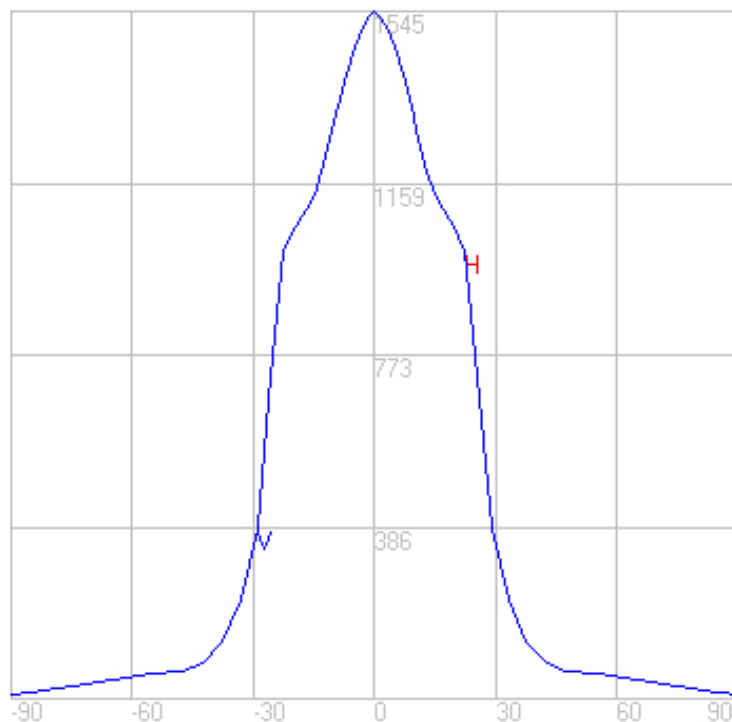
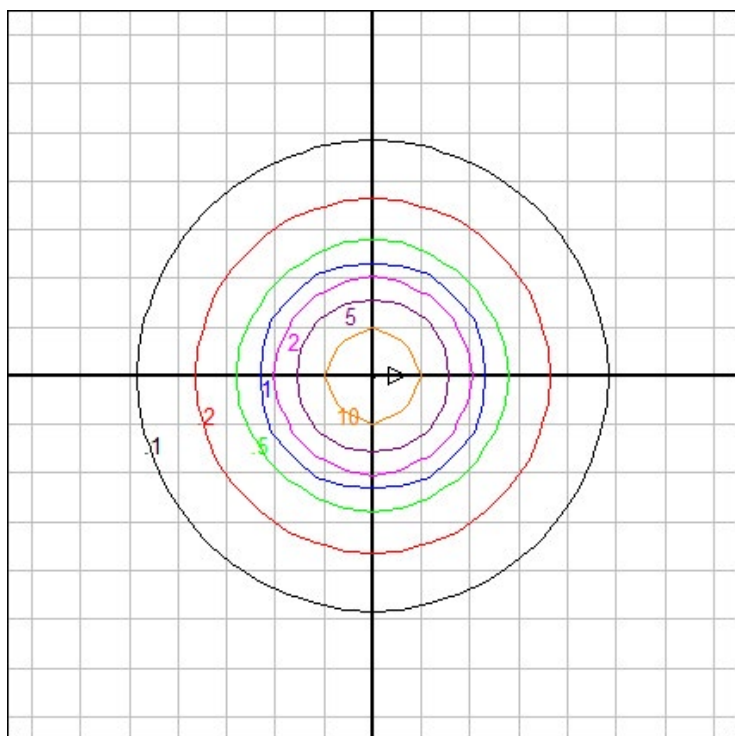


Characteristics

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1146 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 82 |
| Total Luminaire Watts | 14 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.84 |
| Spacing Criterion (90-270) | 0.84 |
| Spacing Criterion (Diagonal) | 0.72 |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 0.00 ft |
| Luminous Width (90-270) | 0.44 ft (Diameter) |
| Luminous Height | 0.21 ft |

Zonal Lumen Summary

| Zone | Lumens |
|---------|--------|
| 0-10 | 134.73 |
| 10-20 | 322.78 |
| 20-30 | 331.11 |
| 30-40 | 114.51 |
| 40-50 | 56.58 |
| 50-60 | 48.55 |
| 60-70 | 41.75 |
| 70-80 | 29.59 |
| 80-90 | 17.11 |
| 90-100 | 12.10 |
| 100-110 | 10.90 |
| 110-120 | 9.09 |
| 120-130 | 7.06 |
| 130-140 | 4.94 |
| 140-150 | 3.03 |
| 150-160 | 1.41 |
| 160-170 | 0.37 |
| 170-180 | 0.04 |



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

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