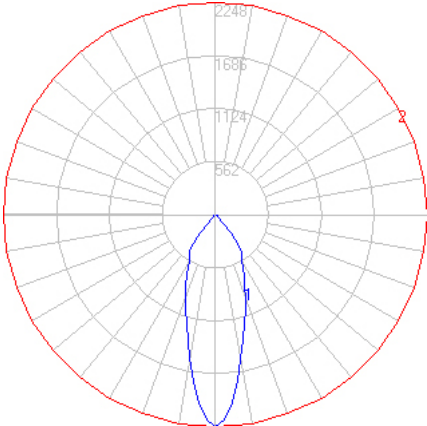
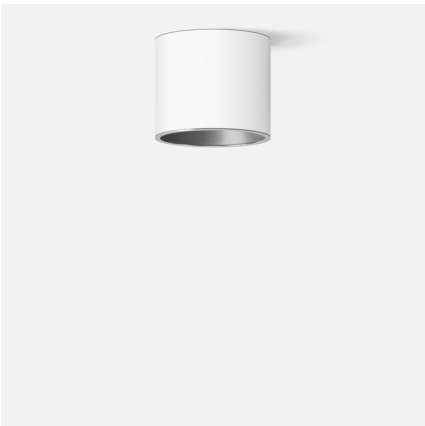


# BEGA

File: 50678.2K4\_BEGA\_IES.ies

TEST: BE\_50678.2K3  
TEST LAB: BEGA  
DATE: 11/29/2018  
LUMINAIRE: 50 678.2K4  
LAMP: 11.5W LED

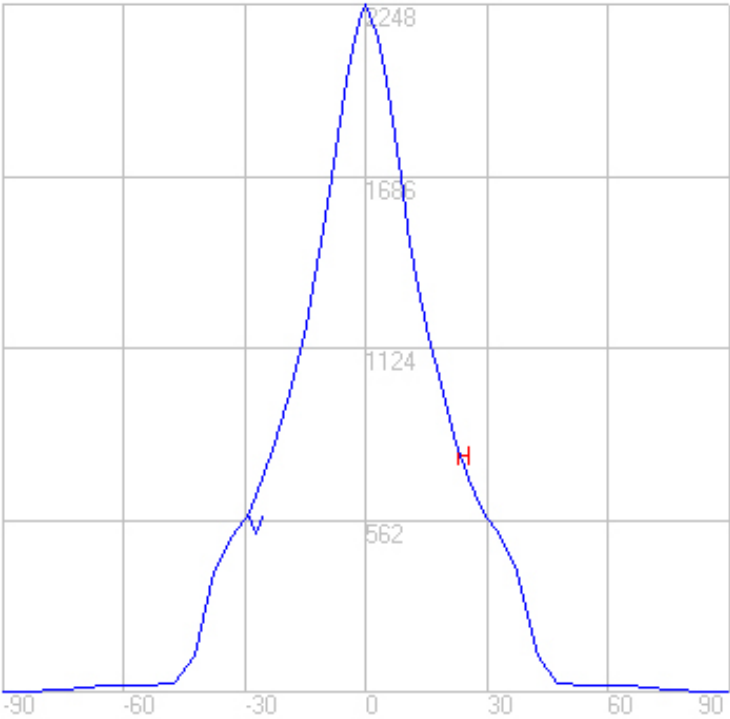
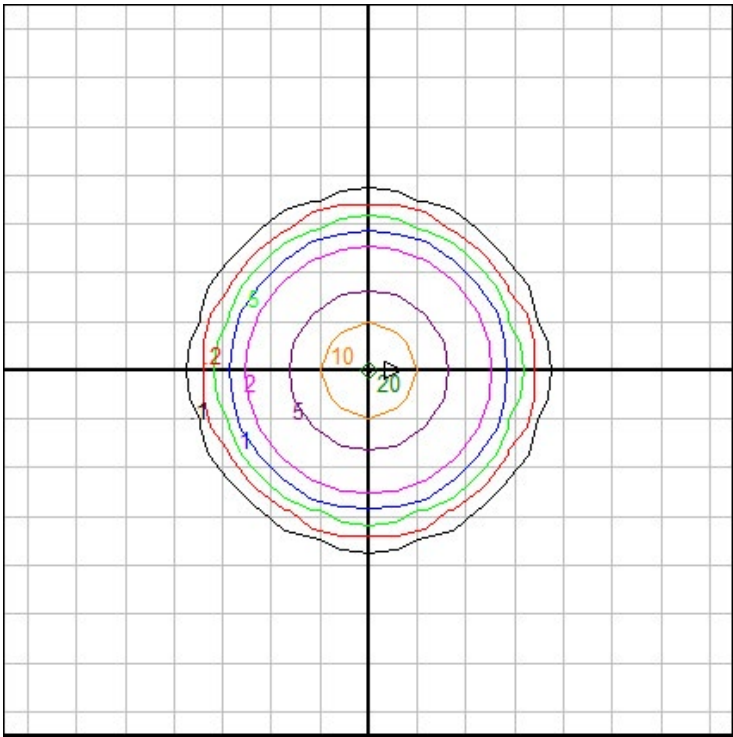


### Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1233
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	0.64
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.39 ft (Diameter)
Luminous Height	0.00 ft

### Zonal Lumen Summary

Zone	Lumens
0-10	176.49
10-20	334.52
20-30	329.90
30-40	278.65
40-50	62.99
50-60	20.98
60-70	18.21
70-80	9.85
80-90	1.72
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

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

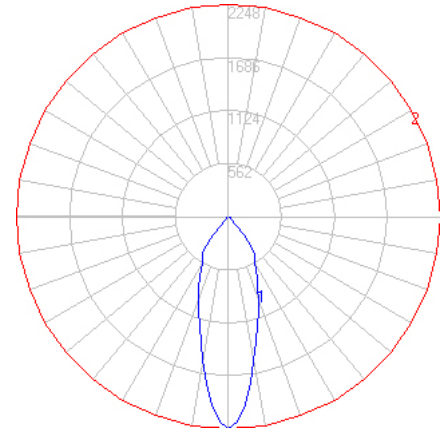
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# BEGA

File: 50678.2K35\_BEGA\_IES.ies

TEST: BE\_50678.2K3  
TEST LAB: BEGA  
DATE: 11/29/2018  
LUMINAIRE: 50 678.2K35  
LAMP: 11.5W LED

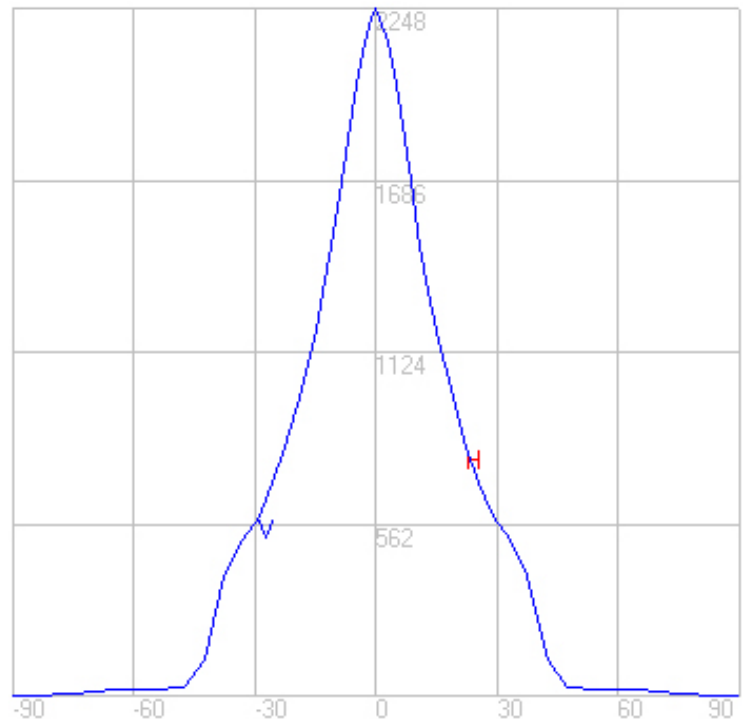
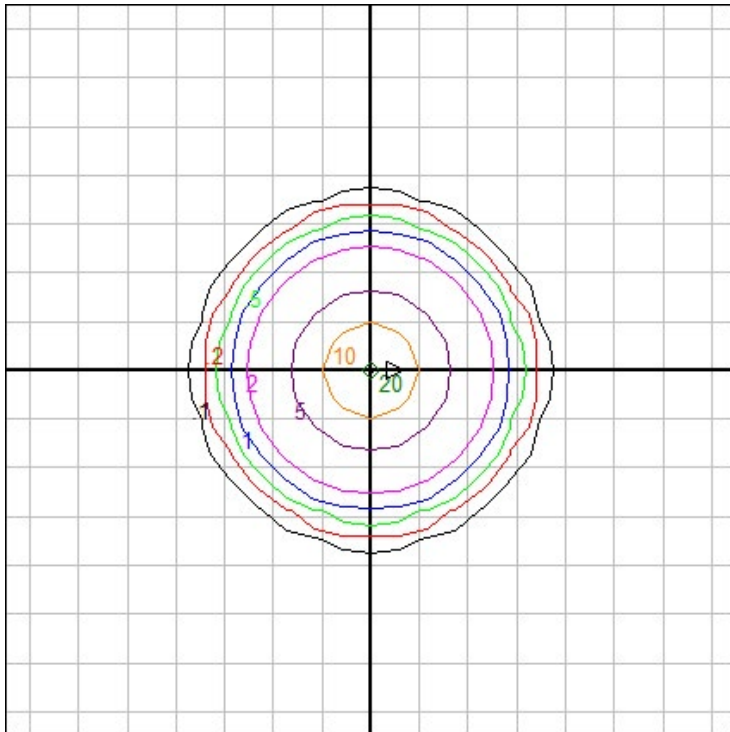


### Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1233
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	0.64
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.39 ft (Diameter)
Luminous Height	0.00 ft

### Zonal Lumen Summary

Zone	Lumens
0-10	176.49
10-20	334.52
20-30	329.90
30-40	278.65
40-50	62.99
50-60	20.98
60-70	18.21
70-80	9.85
80-90	1.72
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

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

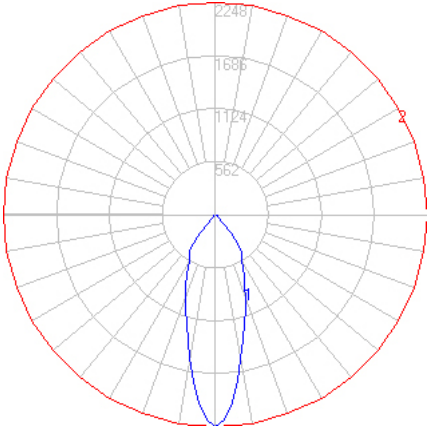
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# BEGA

File: 50678.2K3\_BEGA\_IES.ies

TEST: BE\_50678.2K3  
TEST LAB: BEGA  
DATE: 11/29/2018  
LUMINAIRE: 50 678.2K3  
LAMP: 11.5W LED

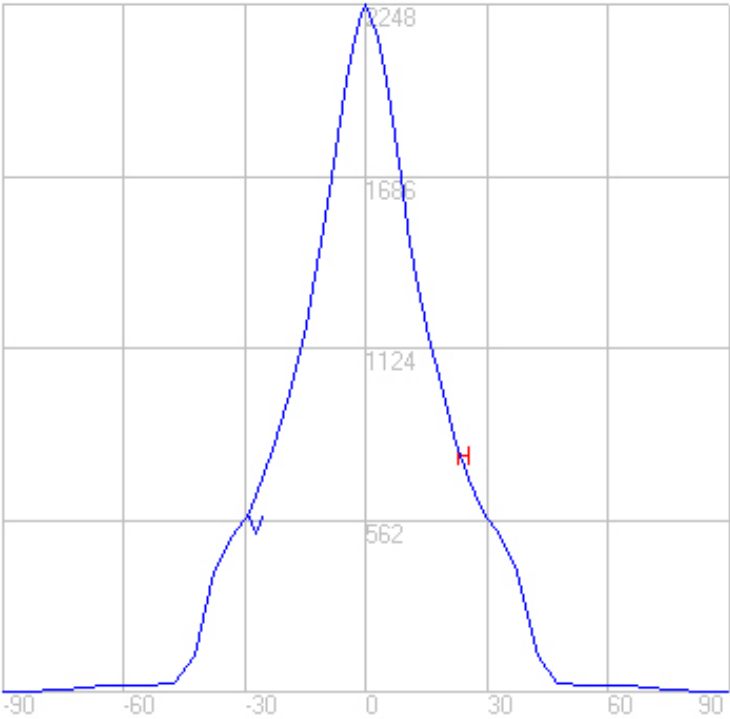
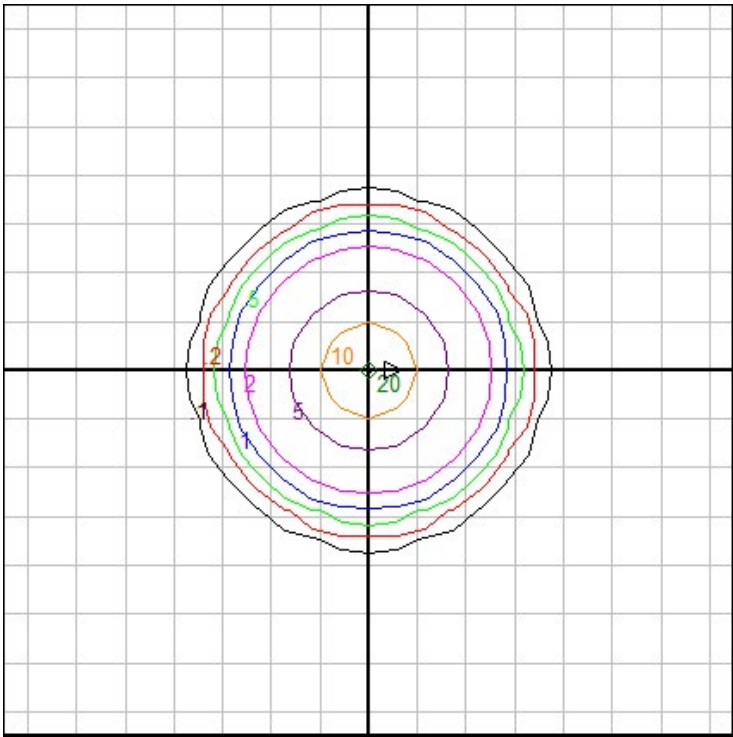


### Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1233
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	0.64
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.39 ft (Diameter)
Luminous Height	0.00 ft

### Zonal Lumen Summary

Zone	Lumens
0-10	176.49
10-20	334.52
20-30	329.90
30-40	278.65
40-50	62.99
50-60	20.98
60-70	18.21
70-80	9.85
80-90	1.72
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

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

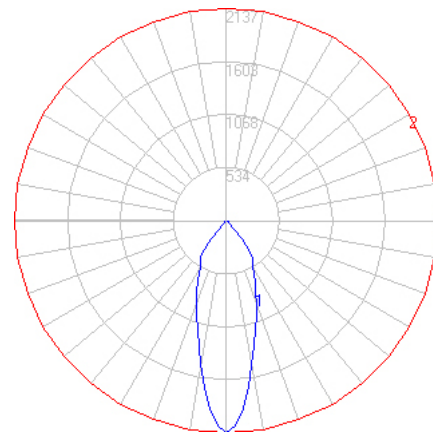
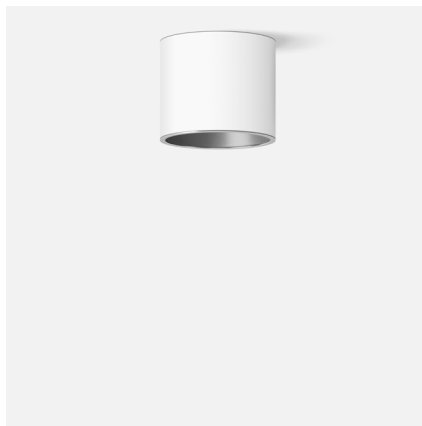
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# BEGA

File: 50678.2K27\_BEGA\_IES.ies

TEST: BE\_50678.2K3  
 TEST LAB: BEGA  
 DATE: 11/29/2018  
 LUMINAIRE: 50 678.2K27  
 LAMP: 11.5W LED

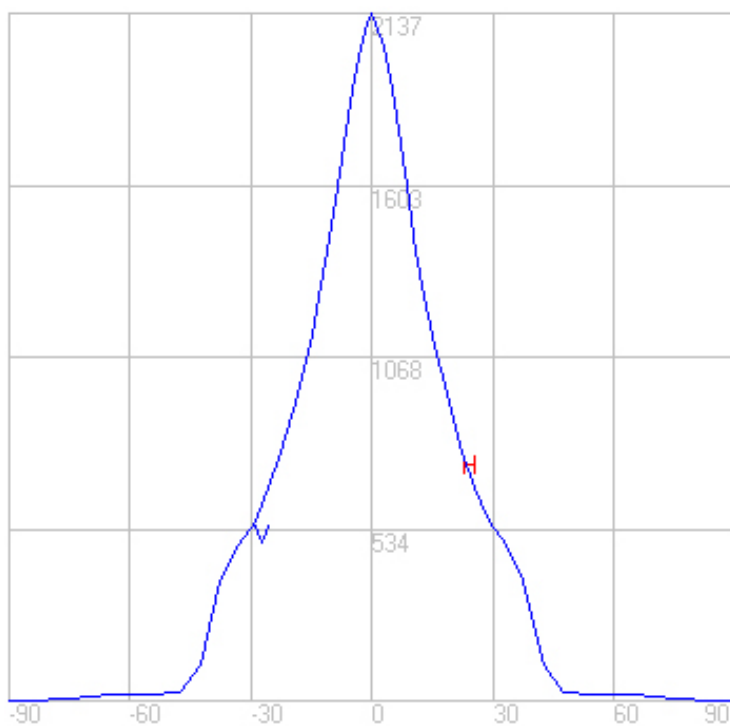
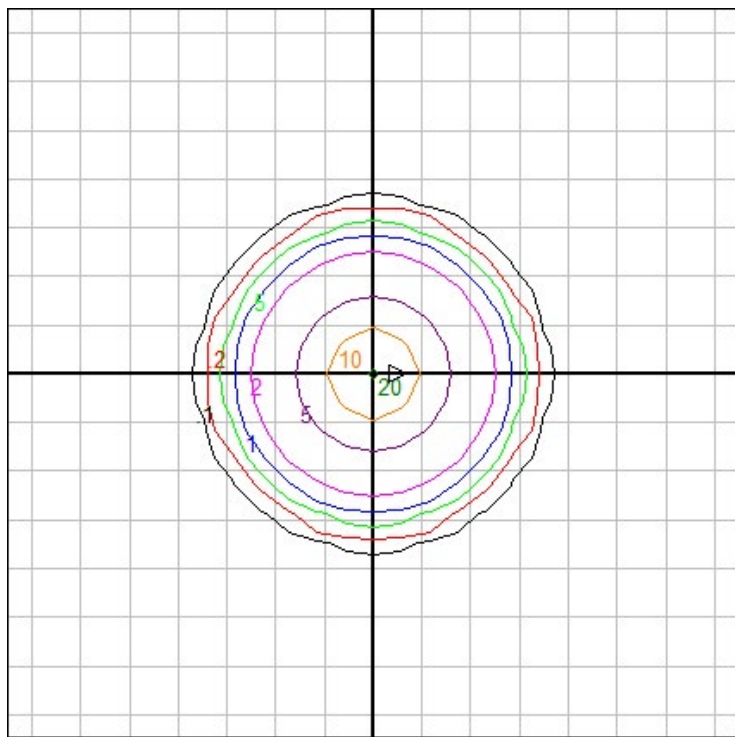


## Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1172
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	0.64
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.39 ft (Diameter)
Luminous Height	0.00 ft

## Zonal Lumen Summary

Zone	Lumens
0-10	167.75
10-20	317.96
20-30	313.57
30-40	264.86
40-50	59.87
50-60	19.95
60-70	17.31
70-80	9.37
80-90	1.63
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

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

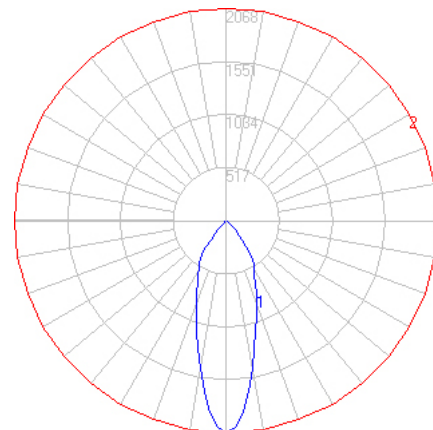
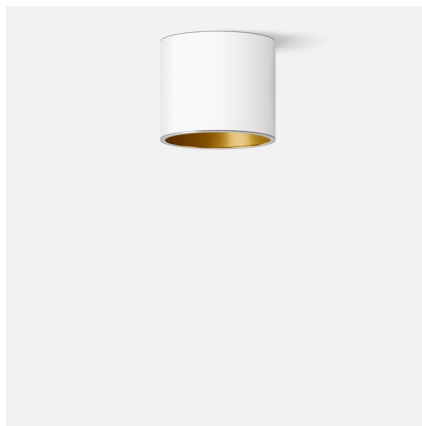
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# BEGA

File: 50678.4K4\_BEGA\_IES.ies

TEST: BE\_50678.4K3  
 TEST LAB: BEGA  
 DATE: 11/29/2018  
 LUMINAIRE: 50 678.4K4  
 LAMP: 11.5W LED

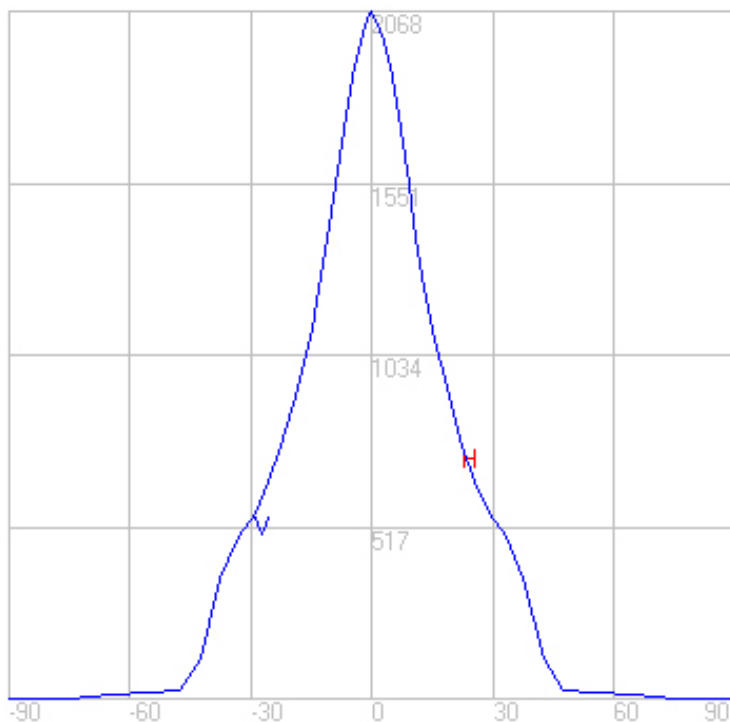
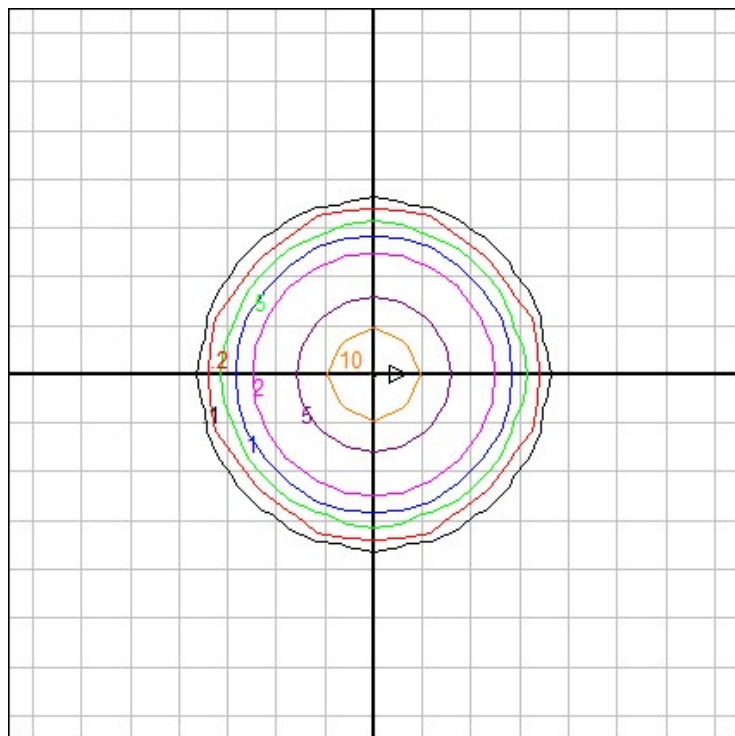


## Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1141
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.66
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.39 ft (Diameter)
Luminous Height	0.00 ft

## Zonal Lumen Summary

Zone	Lumens
0-10	165.48
10-20	312.99
20-30	311.52
30-40	263.41
40-50	59.43
50-60	15.12
60-70	9.63
70-80	3.20
80-90	0.26
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

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

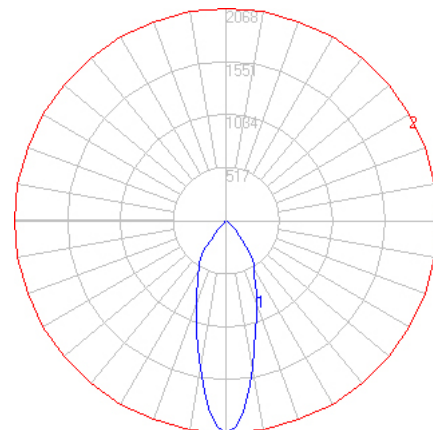
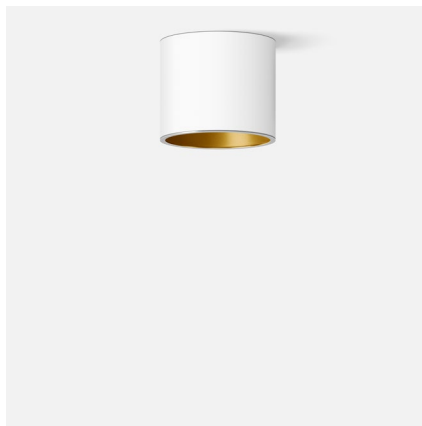
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# BEGA

File: 50678.4K35\_BEGA\_IES.ies

TEST: BE\_50678.4K3  
 TEST LAB: BEGA  
 DATE: 11/29/2018  
 LUMINAIRE: 50 678.4K35  
 LAMP: 11.5W LED

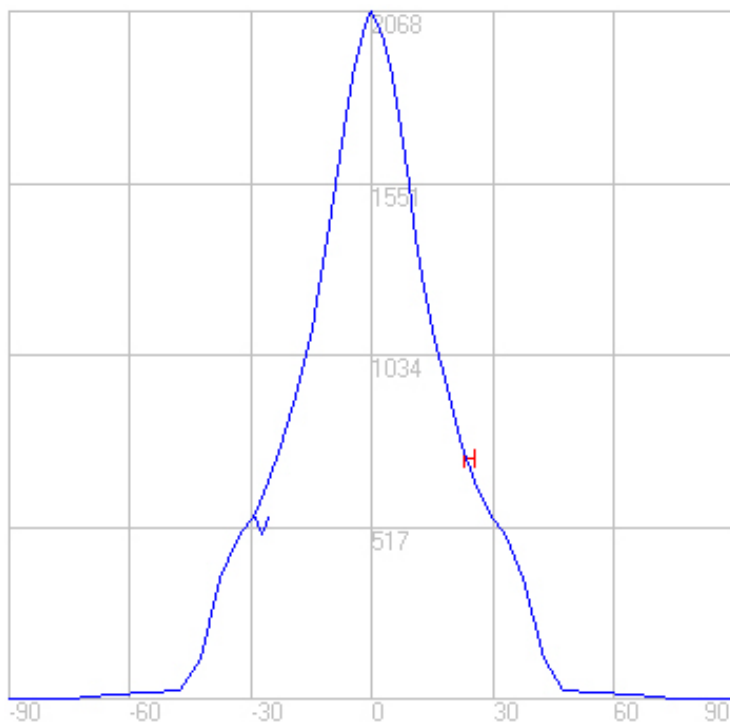
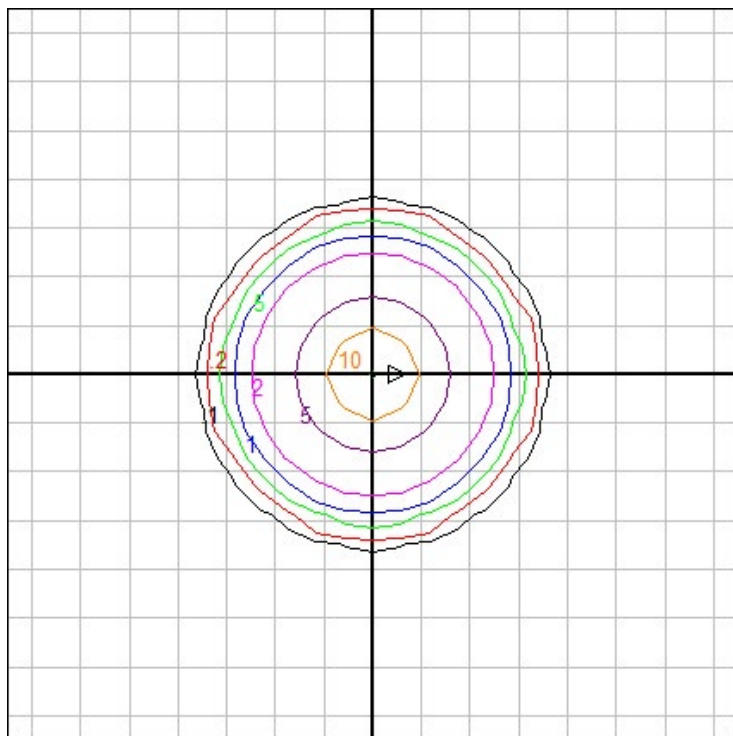


## Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1141
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.66
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.39 ft (Diameter)
Luminous Height	0.00 ft

## Zonal Lumen Summary

Zone	Lumens
0-10	165.48
10-20	312.99
20-30	311.52
30-40	263.41
40-50	59.43
50-60	15.12
60-70	9.63
70-80	3.20
80-90	0.26
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

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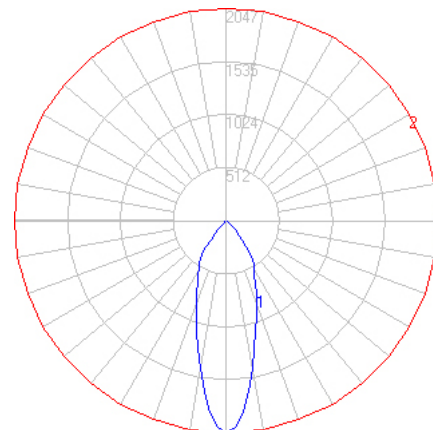
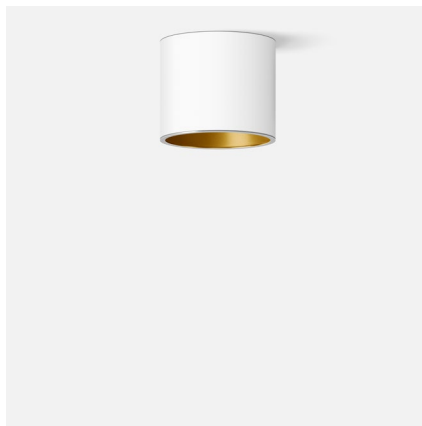
06/17/20



# BEGA

File: 50678.4K3\_BEGA\_IES.ies

TEST: BE\_50678.4K3  
TEST LAB: BEGA  
DATE: 11/29/2018  
LUMINAIRE: 50 678.4K3  
LAMP: 11.5W LED

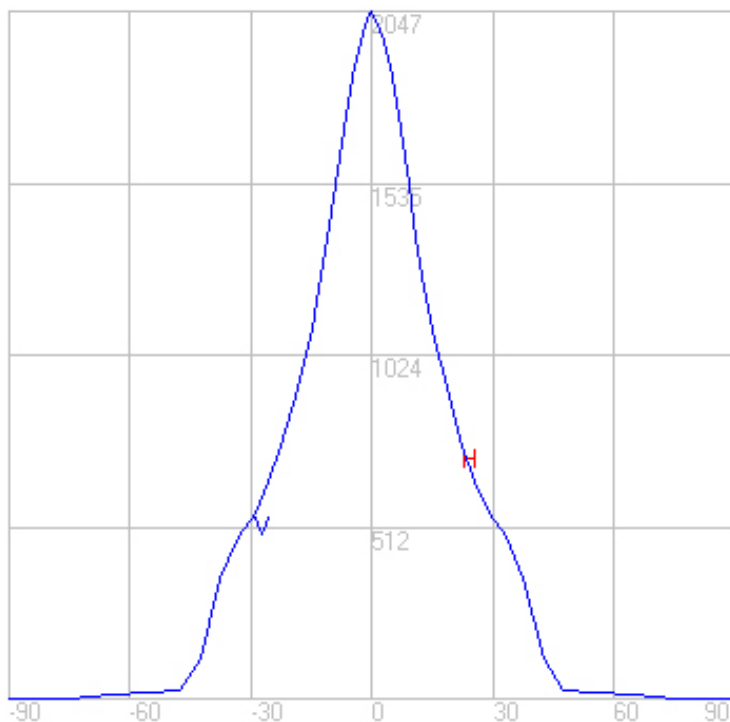
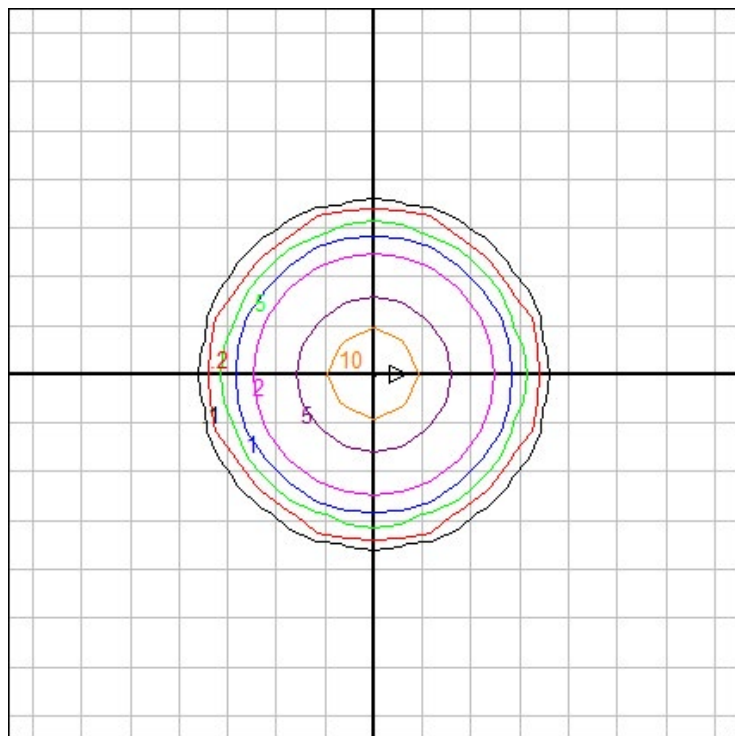


## Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1130
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.66
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.39 ft (Diameter)
Luminous Height	0.00 ft

## Zonal Lumen Summary

Zone	Lumens
0-10	163.84
10-20	309.89
20-30	308.44
30-40	260.80
40-50	58.84
50-60	14.97
60-70	9.53
70-80	3.17
80-90	0.26
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

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

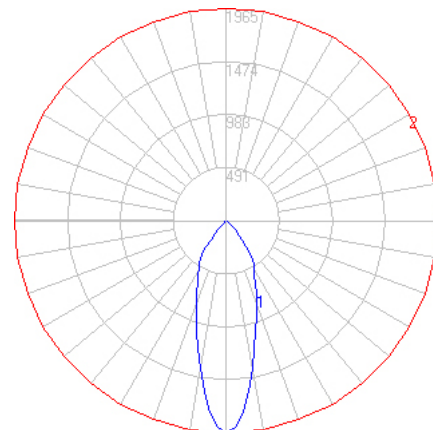
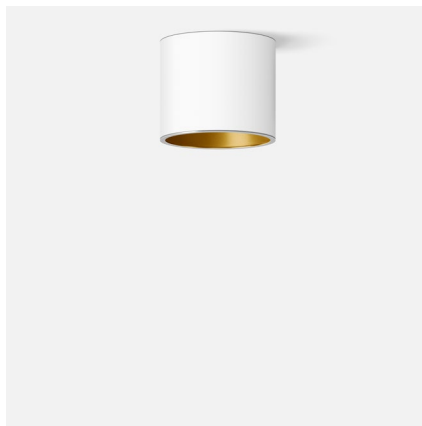
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# BEGA

File: 50678.4K27\_BEGA\_IES.ies

TEST: BE\_50678.4K3  
TEST LAB: BEGA  
DATE: 11/29/2018  
LUMINAIRE: 50 678.4K27  
LAMP: 11.5W LED

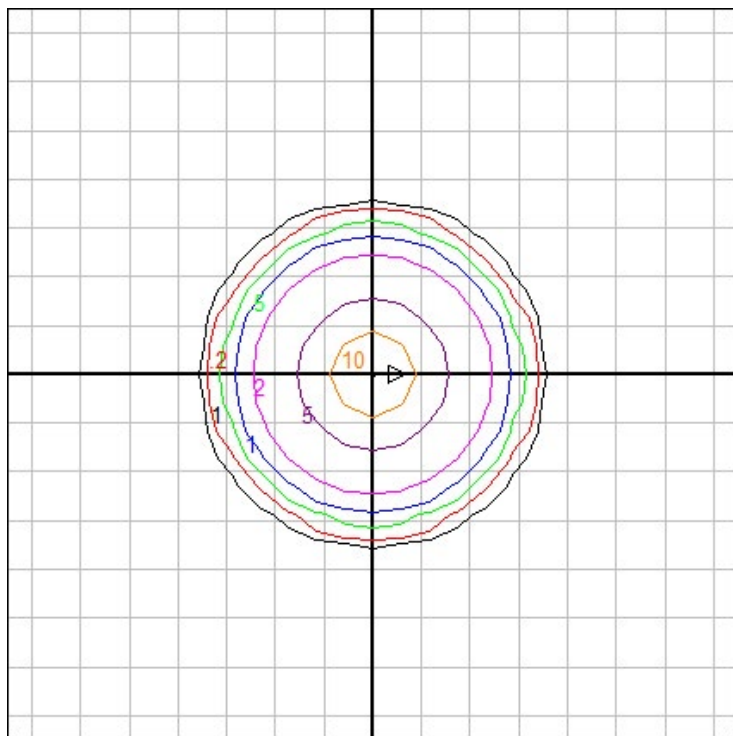


## Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1085
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.66
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.39 ft (Diameter)
Luminous Height	0.00 ft

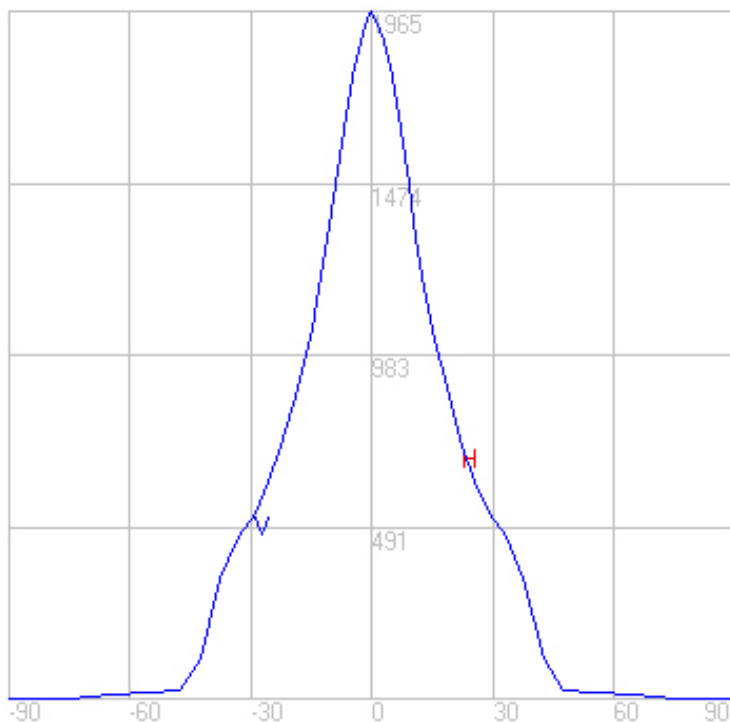
## Zonal Lumen Summary

Zone	Lumens
0-10	157.29
10-20	297.50
20-30	296.10
30-40	250.37
40-50	56.48
50-60	14.37
60-70	9.15
70-80	3.04
80-90	0.25
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 3 ft.



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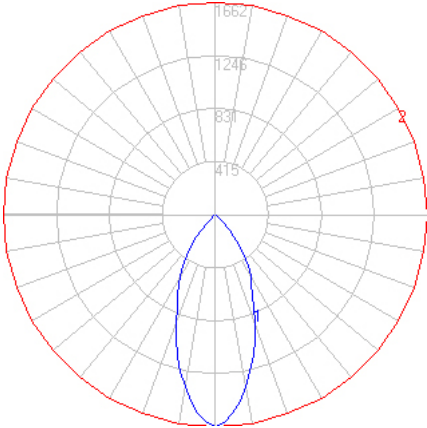
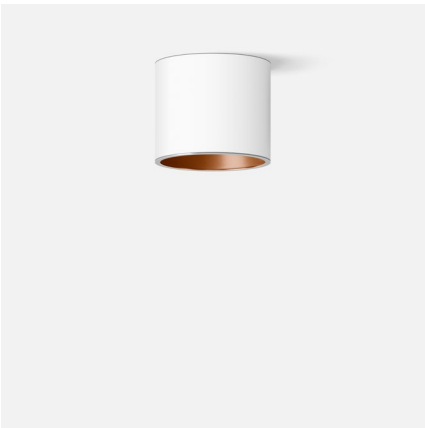
06/17/20



# BEGA

File: 50678.6K4\_BEGA\_IES.ies

TEST: BE\_50678.6K3  
TEST LAB: BEGA  
DATE: 11/29/2018  
LUMINAIRE: 50 678.6K4  
LAMP: 11.5W LED

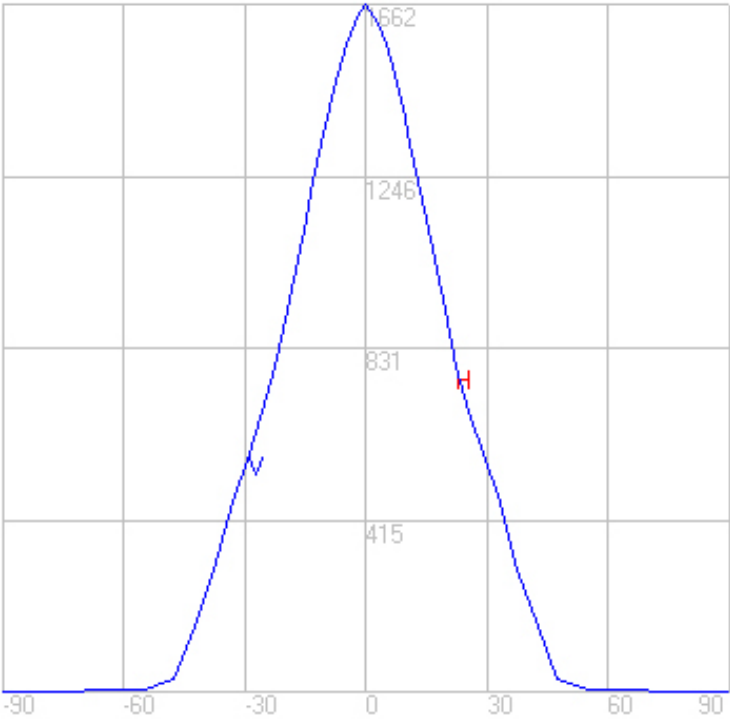
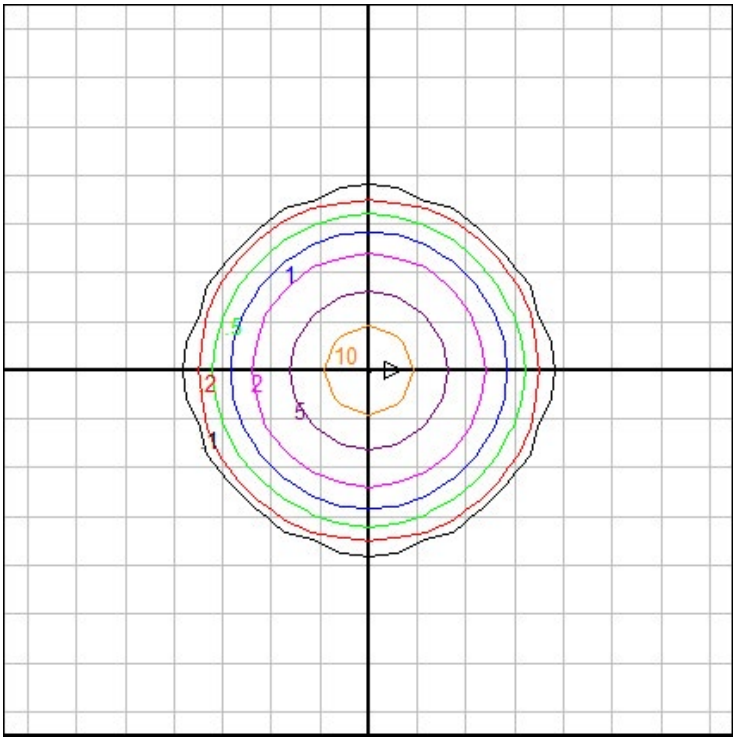


### Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1109
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.68
Spacing Criterion (Diagonal)	0.76
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.39 ft (Diameter)
Luminous Height	0.00 ft

### Zonal Lumen Summary

Zone	Lumens
0-10	143.34
10-20	316.37
20-30	322.19
30-40	240.24
40-50	74.28
50-60	7.16
60-70	4.01
70-80	1.26
80-90	0.07
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

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

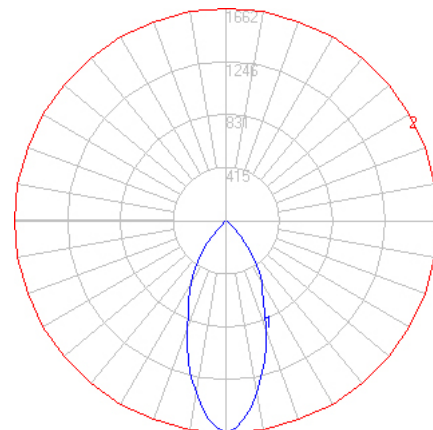
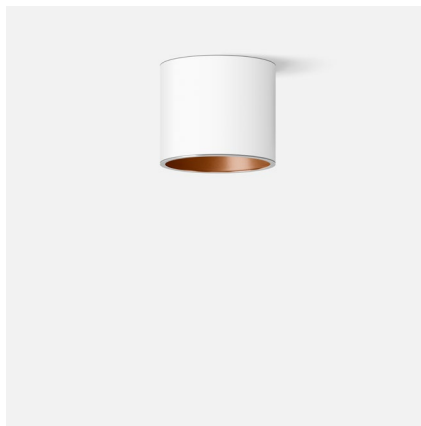
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# BEGA

File: 50678.6K35\_BEGA\_IES.ies

TEST: BE\_50678.6K3  
 TEST LAB: BEGA  
 DATE: 11/29/2018  
 LUMINAIRE: 50 678.6K35  
 LAMP: 11.5W LED

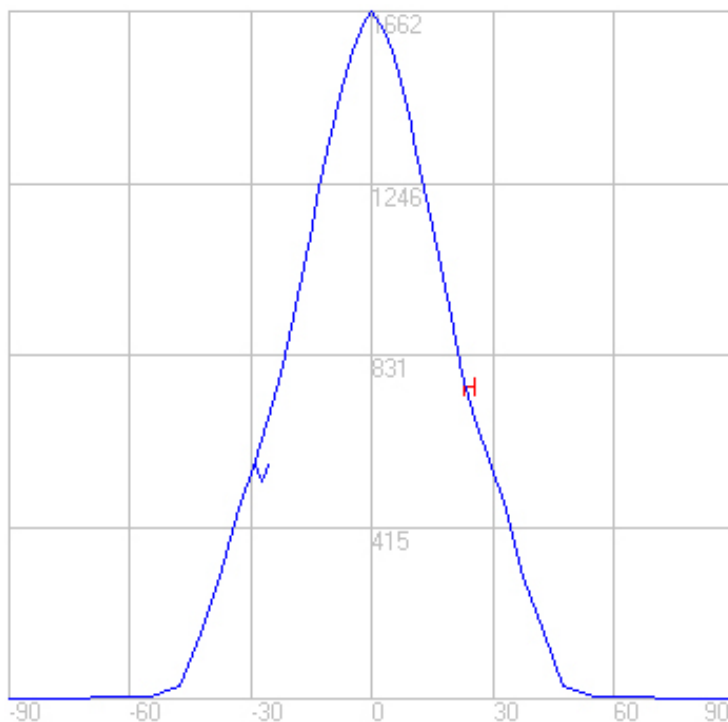
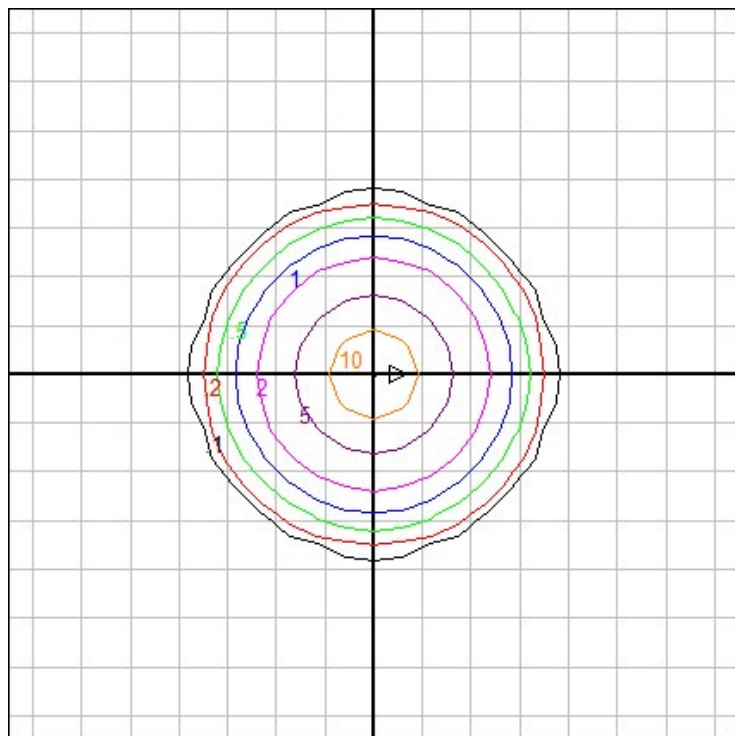


## Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1109
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.68
Spacing Criterion (Diagonal)	0.76
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.39 ft (Diameter)
Luminous Height	0.00 ft

## Zonal Lumen Summary

Zone	Lumens
0-10	143.34
10-20	316.37
20-30	322.19
30-40	240.24
40-50	74.28
50-60	7.16
60-70	4.01
70-80	1.26
80-90	0.07
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

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

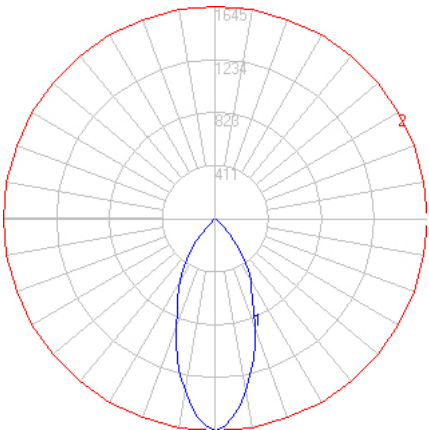
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06/17/20

# BEGA

File: 50678.6K3\_BEGA\_IES.ies

TEST: BE\_50678.6K3  
TEST LAB: BEGA  
DATE: 11/29/2018  
LUMINAIRE: 50 678.6K3  
LAMP: 11.5W LED

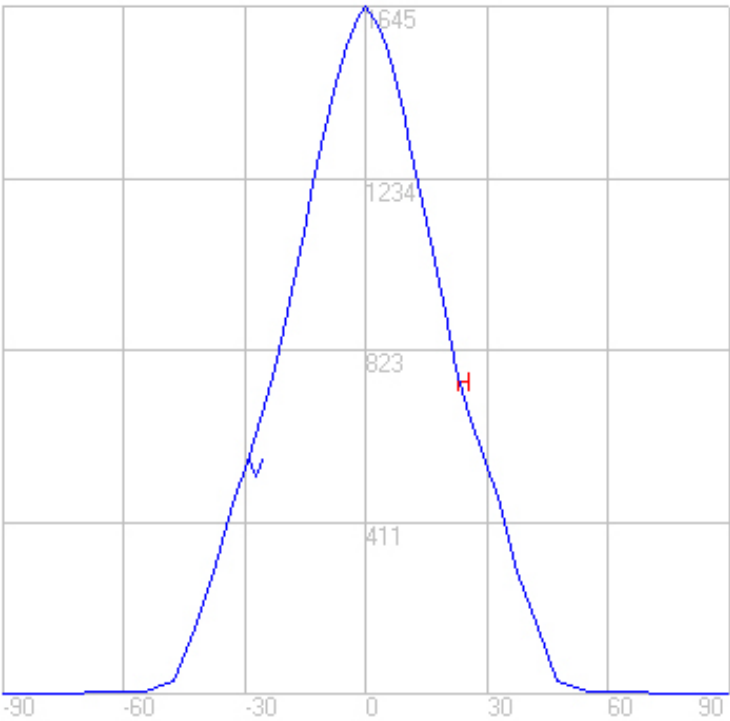
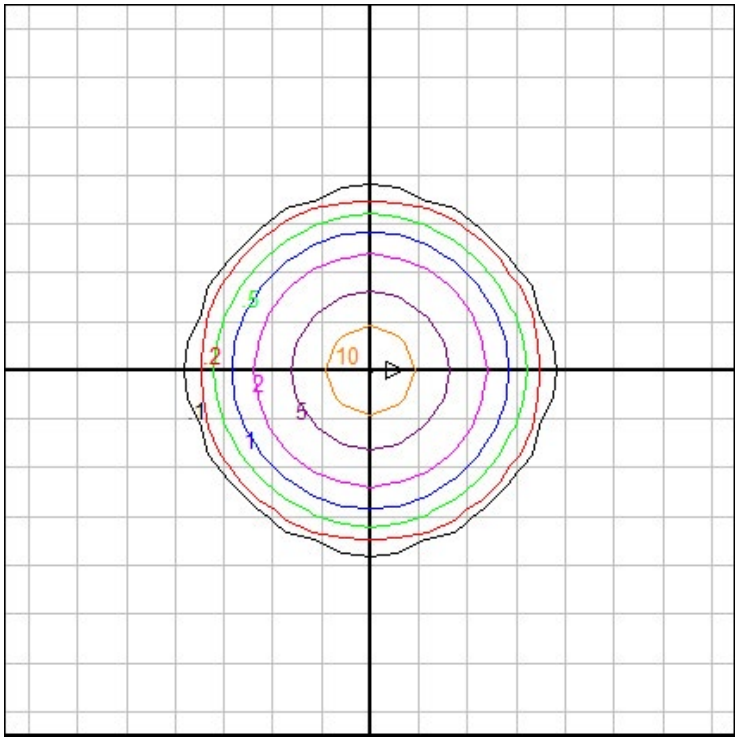


### Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.68
Spacing Criterion (Diagonal)	0.76
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.39 ft (Diameter)
Luminous Height	0.00 ft

### Zonal Lumen Summary

Zone	Lumens
0-10	141.92
10-20	313.24
20-30	319.00
30-40	237.86
40-50	73.55
50-60	7.09
60-70	3.97
70-80	1.25
80-90	0.07
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

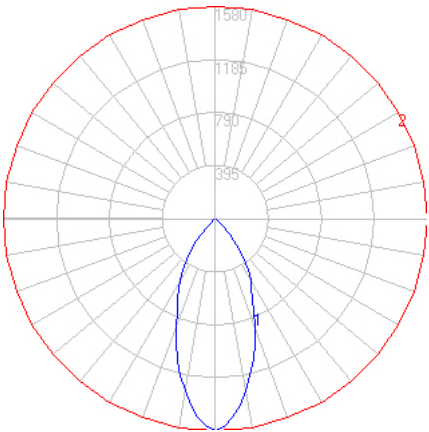
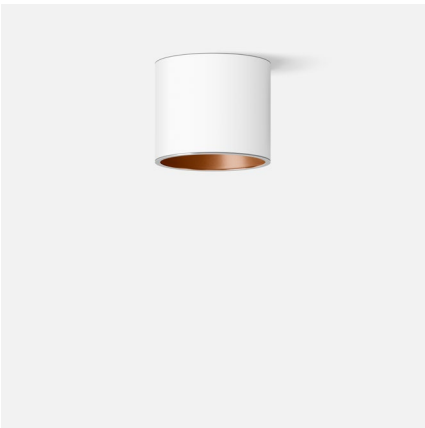


Mounting Height: 10 ft.      Grid Spacing: 3 ft.

# BEGA

File: 50678.6K27\_BEGA\_IES.ies

TEST: BE\_50678.6K3  
TEST LAB: BEGA  
DATE: 11/29/2018  
LUMINAIRE: 50 678.6K27  
LAMP: 11.5W LED

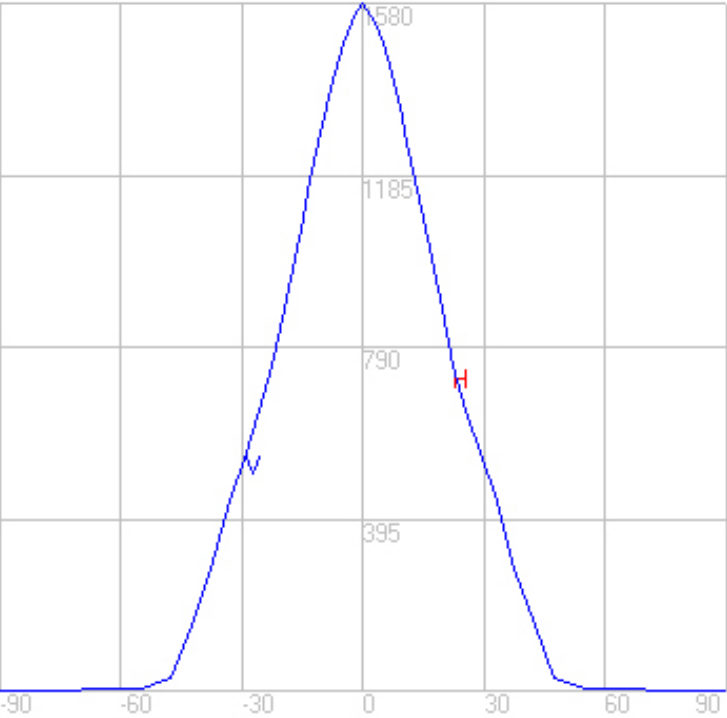
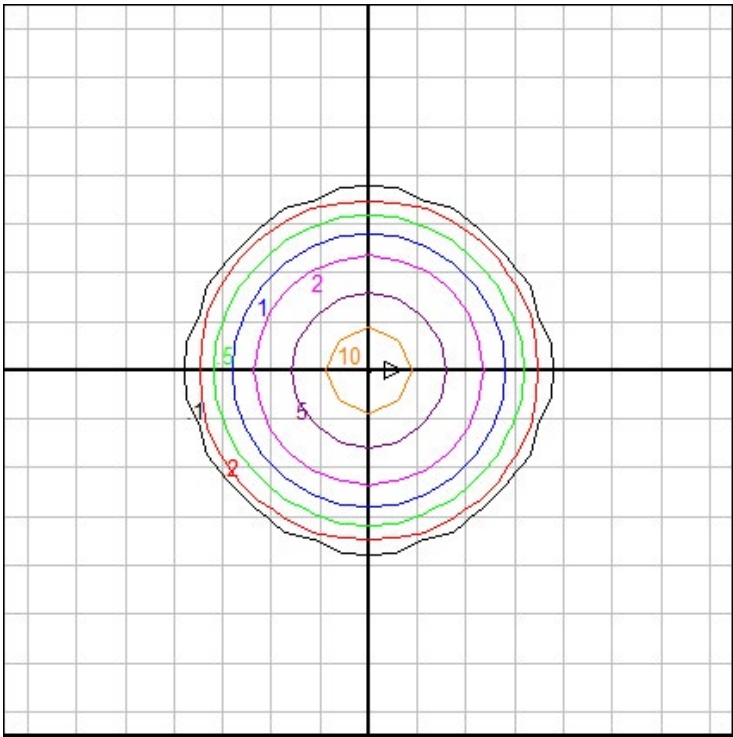


### Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1054
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.68
Spacing Criterion (Diagonal)	0.76
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.39 ft (Diameter)
Luminous Height	0.00 ft

### Zonal Lumen Summary

Zone	Lumens
0-10	136.24
10-20	300.71
20-30	306.24
30-40	228.35
40-50	70.61
50-60	6.80
60-70	3.81
70-80	1.20
80-90	0.07
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



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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