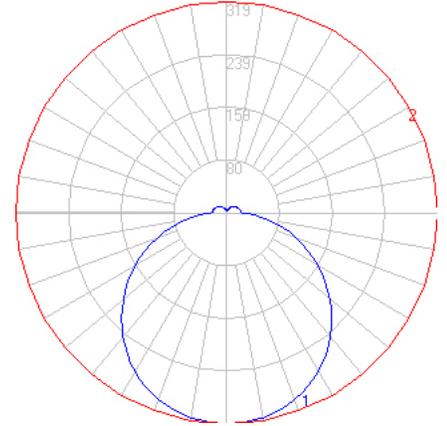
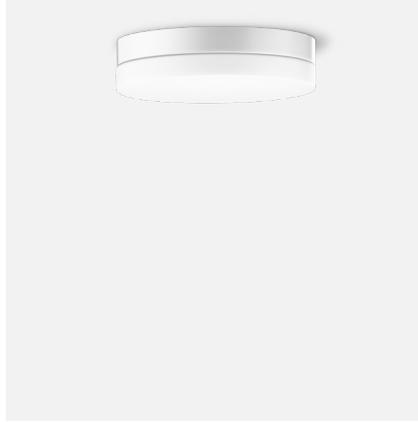


BEGA

File: 12130K4_BEGA_IES.ies

TEST: BE_12130K4
 TEST LAB: BEGA
 DATE: 04/05/2015
 LUMINAIRE: 12 130K4
 LAMP: 14.2W LED

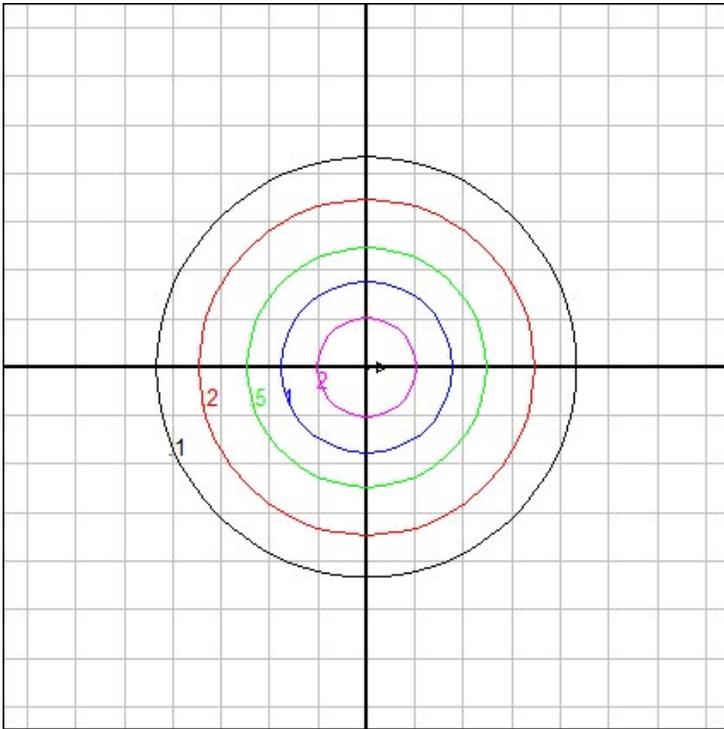


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1123
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.85 ft (Diameter)
Luminous Height	0.21 ft

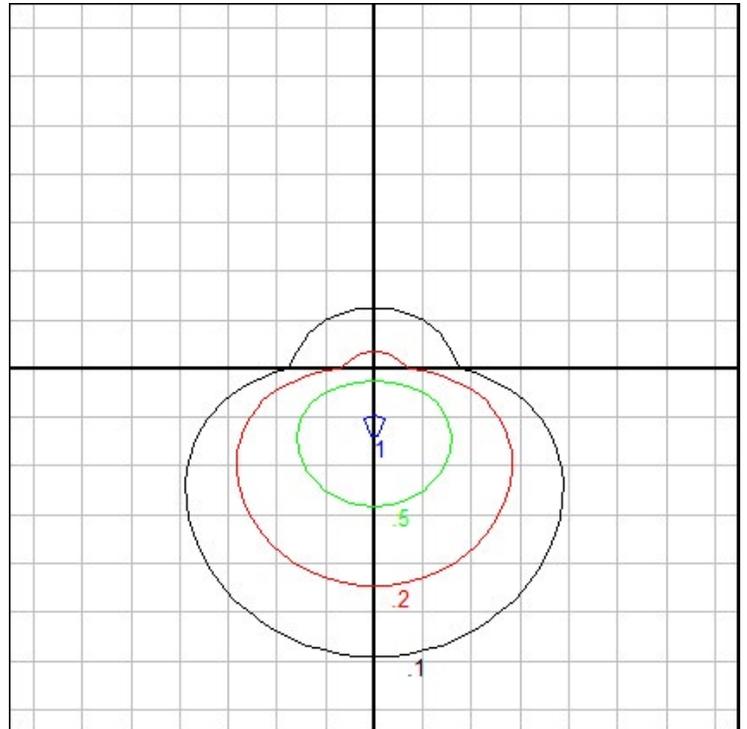
Zonal Lumen Summary

Zone	Lumens
0-10	30.23
10-20	87.31
20-30	133.82
30-40	163.71
40-50	173.53
50-60	162.85
60-70	134.47
70-80	93.31
80-90	46.45
90-100	23.95
100-110	21.48
110-120	17.99
120-130	13.84
130-140	9.69
140-150	6.02
150-160	3.09
160-170	1.13
170-180	0.17



Mounting Height: 10 ft.

Grid Spacing: 5 ft.



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

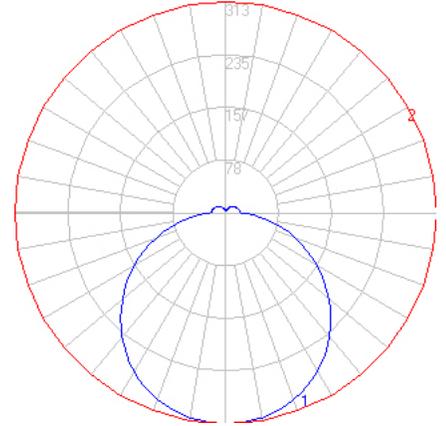
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BEGA

File: 12130K35_BEGA_IES.ies

TEST: BE_12130K4
 TEST LAB: BEGA
 DATE: 04/05/2015
 LUMINAIRE: 12 130K35
 LAMP: 14.2W LED

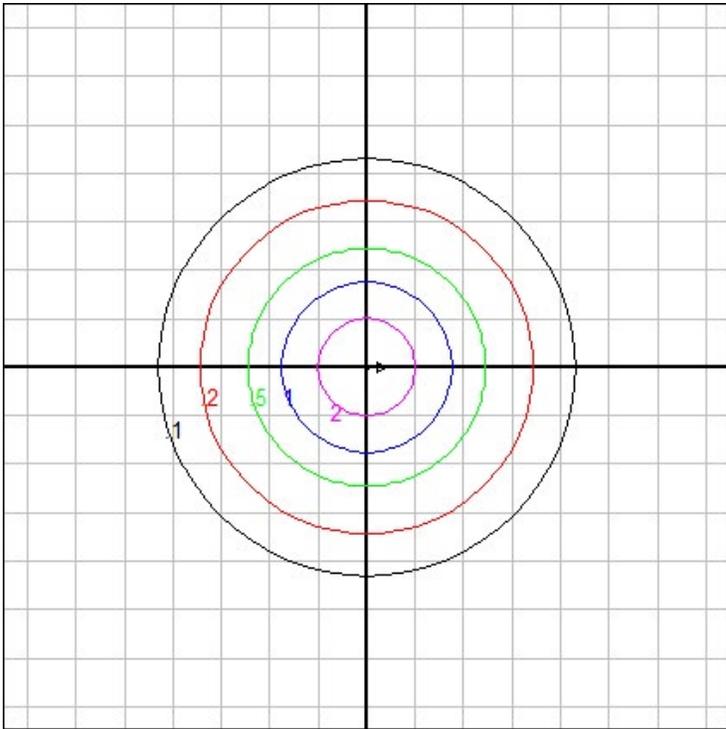


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1103
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.85 ft (Diameter)
Luminous Height	0.21 ft

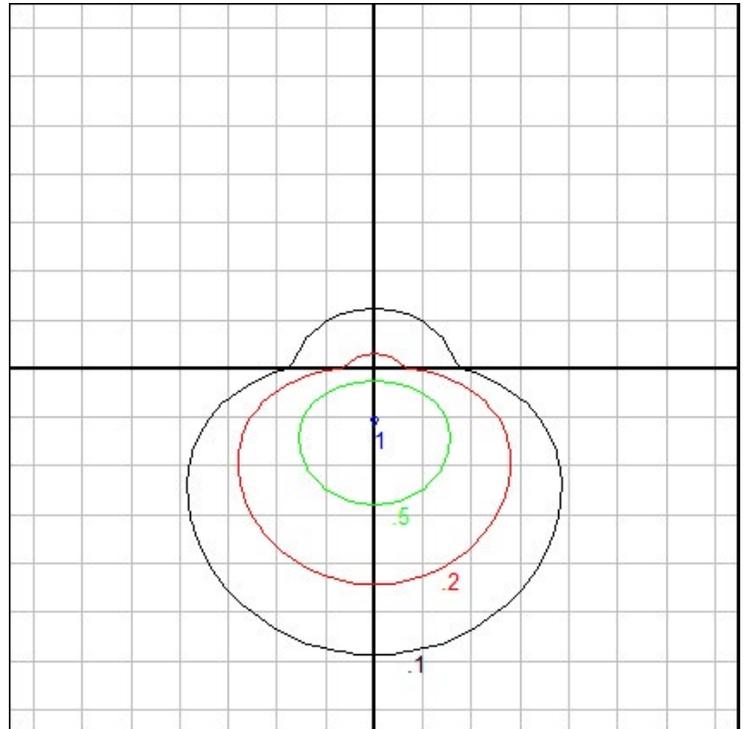
Zonal Lumen Summary

Zone	Lumens
0-10	29.69
10-20	85.74
20-30	131.41
30-40	160.76
40-50	170.40
50-60	159.92
60-70	132.05
70-80	91.63
80-90	45.62
90-100	23.52
100-110	21.10
110-120	17.67
120-130	13.59
130-140	9.52
140-150	5.91
150-160	3.04
160-170	1.11
170-180	0.17



Mounting Height: 10 ft.

Grid Spacing: 3 ft.



Mounting Height: 10 ft.

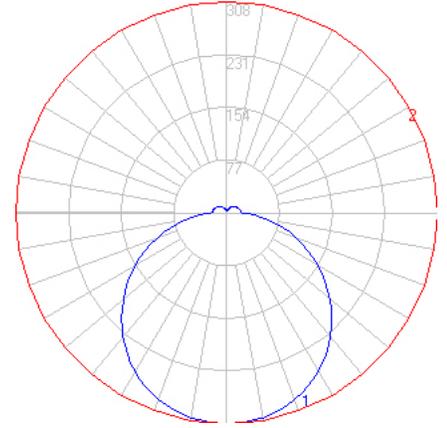
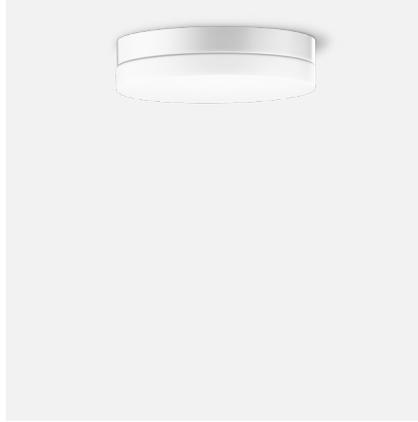
Grid Spacing: 5 ft.

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

BEGA

File: 12130K3_BEGA_IES.ies

TEST: BE_12130K4
 TEST LAB: BEGA
 DATE: 04/05/2015
 LUMINAIRE: 12 130K3
 LAMP: 14.2W LED

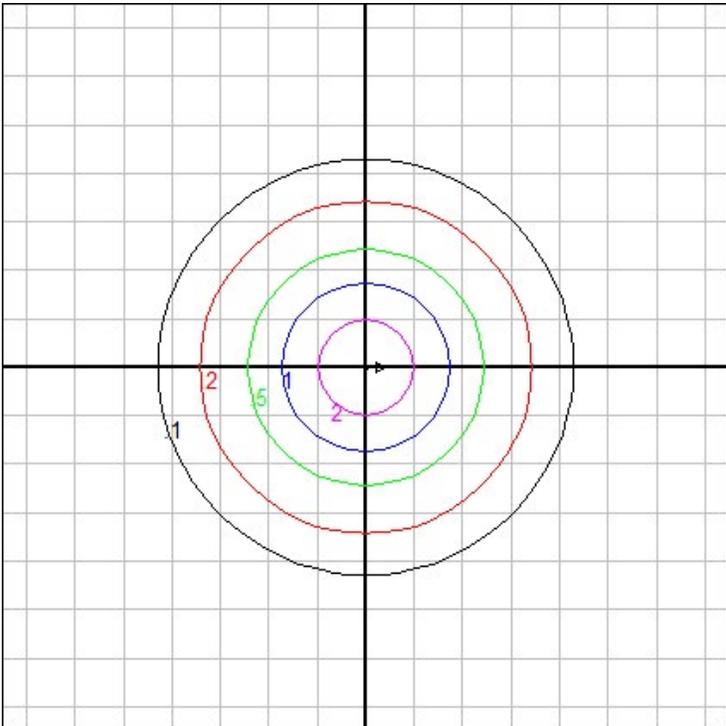


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1084
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.85 ft (Diameter)
Luminous Height	0.21 ft

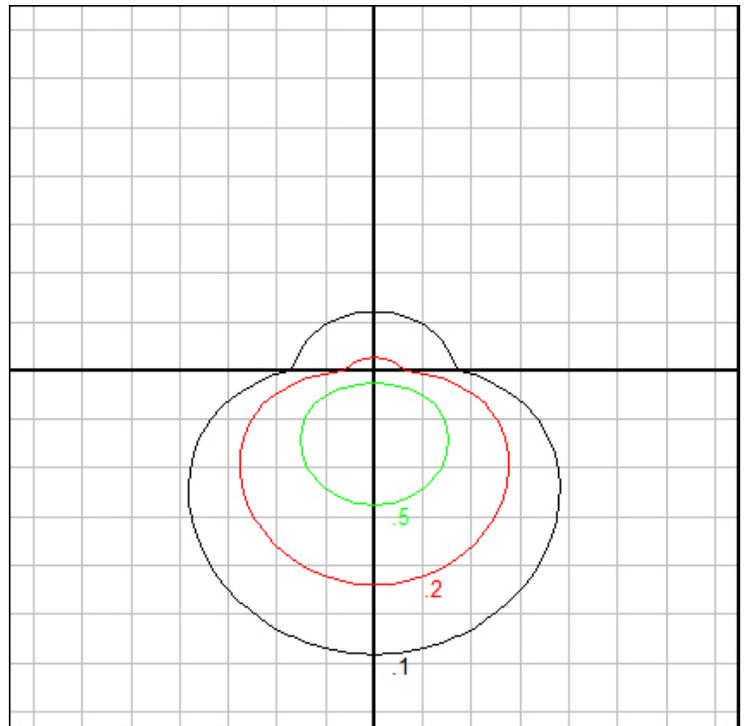
Zonal Lumen Summary

Zone	Lumens
0-10	29.18
10-20	84.25
20-30	129.14
30-40	157.98
40-50	167.45
50-60	157.15
60-70	129.77
70-80	90.04
80-90	44.83
90-100	23.11
100-110	20.73
110-120	17.36
120-130	13.36
130-140	9.35
140-150	5.81
150-160	2.98
160-170	1.09
170-180	0.16



Mounting Height: 10 ft.

Grid Spacing: 3 ft.



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

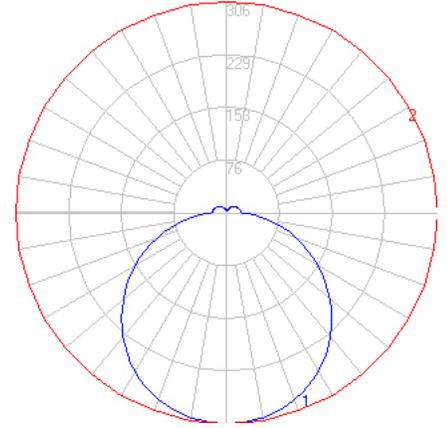
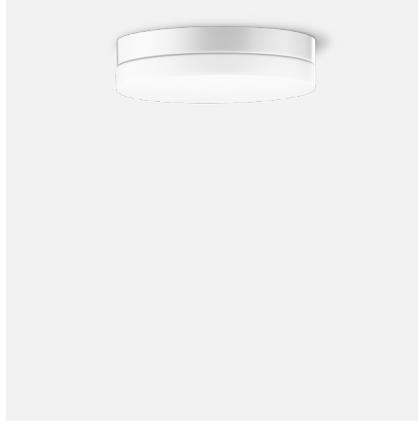
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BEGA

File:12130K27_BEGA_IES.ies

TEST: BE_12130K4
 TEST LAB: BEGA
 DATE: 04/05/2015
 LUMINAIRE: 12 130K27
 LAMP: 14.2W LED

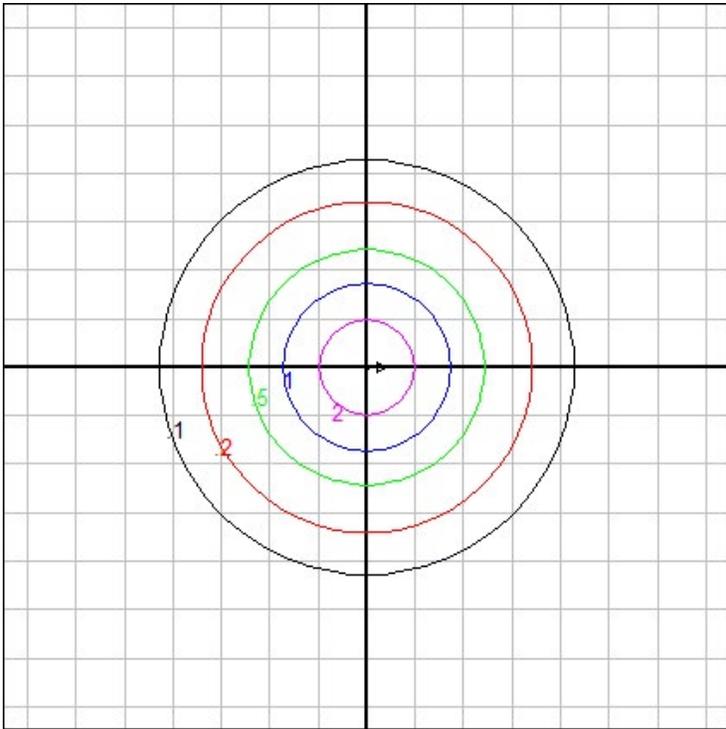


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1076
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.85 ft (Diameter)
Luminous Height	0.21 ft

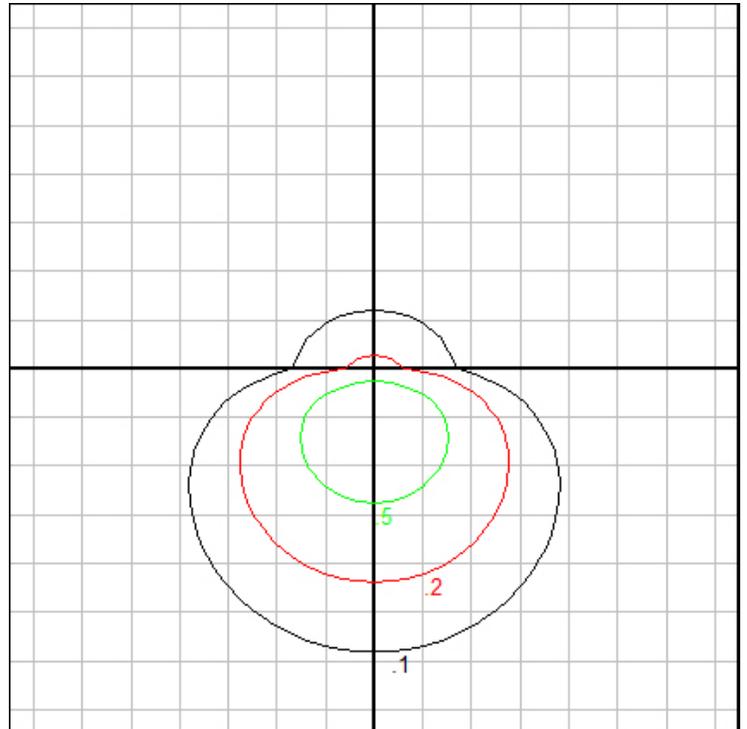
Zonal Lumen Summary

Zone	Lumens
0-10	28.96
10-20	83.64
20-30	128.20
30-40	156.83
40-50	166.24
50-60	156.01
60-70	128.83
70-80	89.39
80-90	44.50
90-100	22.95
100-110	20.58
110-120	17.24
120-130	13.26
130-140	9.29
140-150	5.77
150-160	2.96
160-170	1.08
170-180	0.16



Mounting Height: 10 ft.

Grid Spacing: 3 ft.



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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