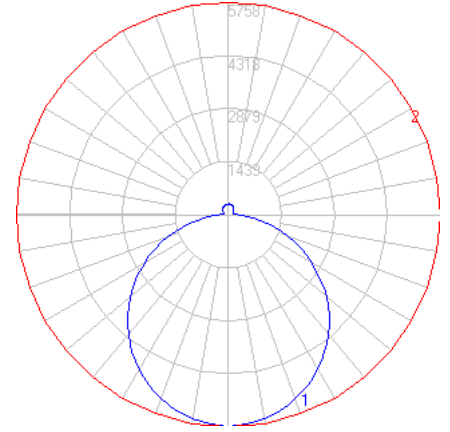


BEGA

File: 50104K4_BEGA_IES.ies

TEST: BE_50104K4
 TEST LAB: BEGA
 DATE: 07/28/2016
 LUMINAIRE: 50 104K4
 LAMP: 123.2W LED

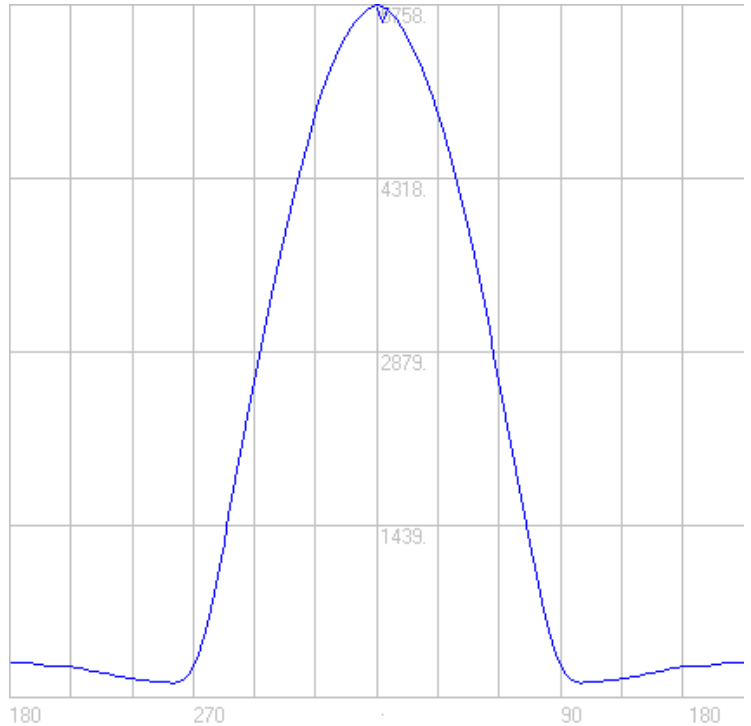
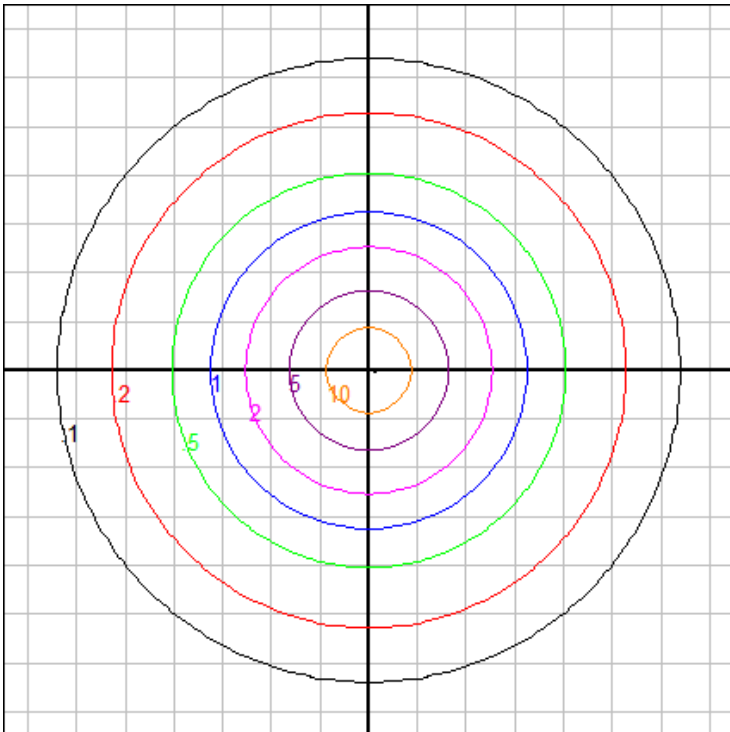


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18321
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	140
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	4.27 ft (Diameter)
Luminous Height	0.46 ft

Zonal Lumen Summary

Zone	Lumens
0-10	542.84
10-20	1552.15
20-30	2355.49
30-40	2853.6
40-50	2986.26
50-60	2739.67
60-70	2166.01
70-80	1372.03
80-90	577.44
90-100	180.93
100-110	141.01
110-120	149.96
120-130	160.22
130-140	162.41
140-150	154.55
150-160	120.97
160-170	78.16



Mounting Height:20 ft.

Grid Spacing:10 ft.

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

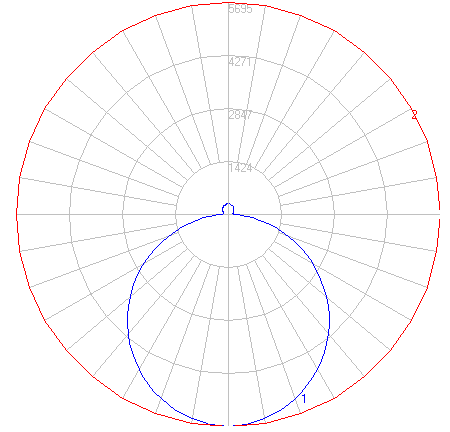
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BEGA

File: 50104K35_BEGA_IES.ies

TEST: BE_50104K4
 TEST LAB: BEGA
 DATE: 07/28/2016
 LUMINAIRE: 50 104K35
 LAMP: 123.2W LED

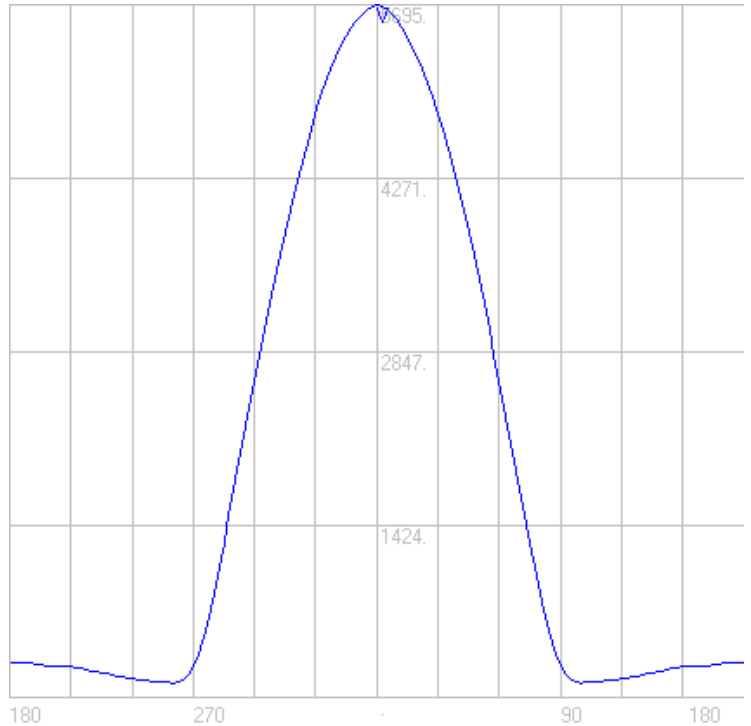
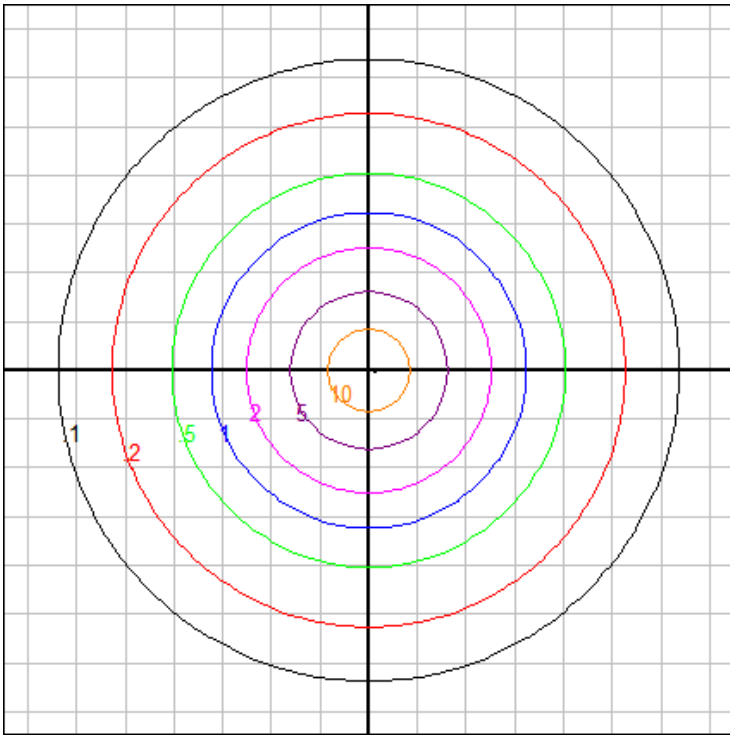


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18120
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	140
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	4.27 ft (Diameter)
Luminous Height	0.46 ft

Zonal Lumen Summary

Zone	Lumens
0-10	536.87
10-20	1535.08
20-30	2329.58
30-40	2822.22
40-50	2953.41
50-60	2709.53
60-70	2142.19
70-80	1356.93
80-90	571.09
90-100	178.94
100-110	139.46
110-120	148.31
120-130	158.45
130-140	160.62
140-150	152.85
150-160	119.64
160-170	77.30
170-180	27.33



Mounting Height: 20 ft.

Grid Spacing: 10 ft.

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

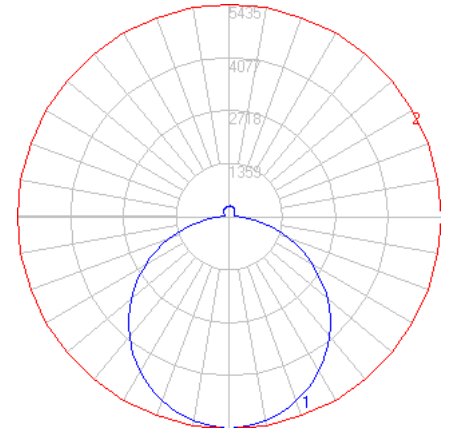
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File: 50104K3_BEGA_IES.ies

TEST: BE_50104K4
 TEST LAB: BEGA
 DATE: 07/28/2016
 LUMINAIRE: 50 104K3
 LAMP: 123.2W LED

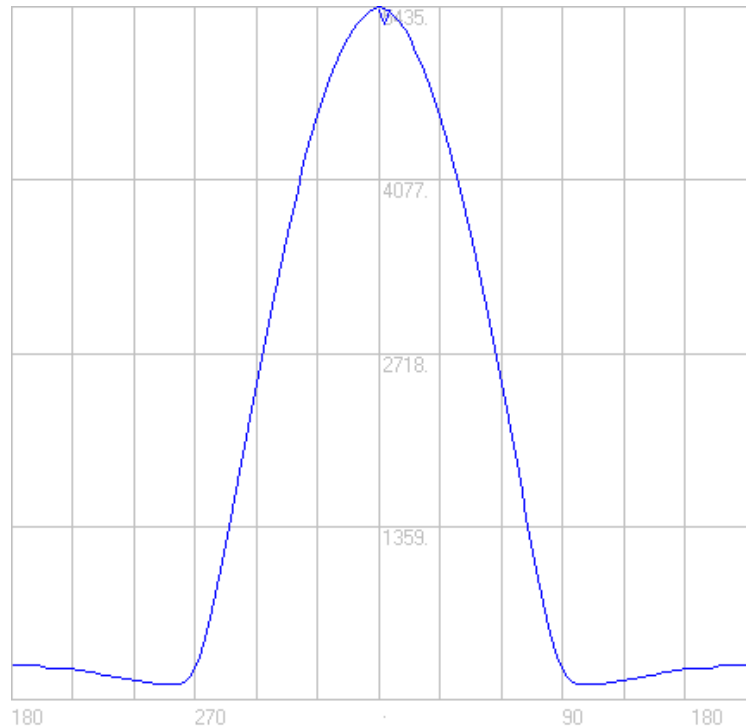
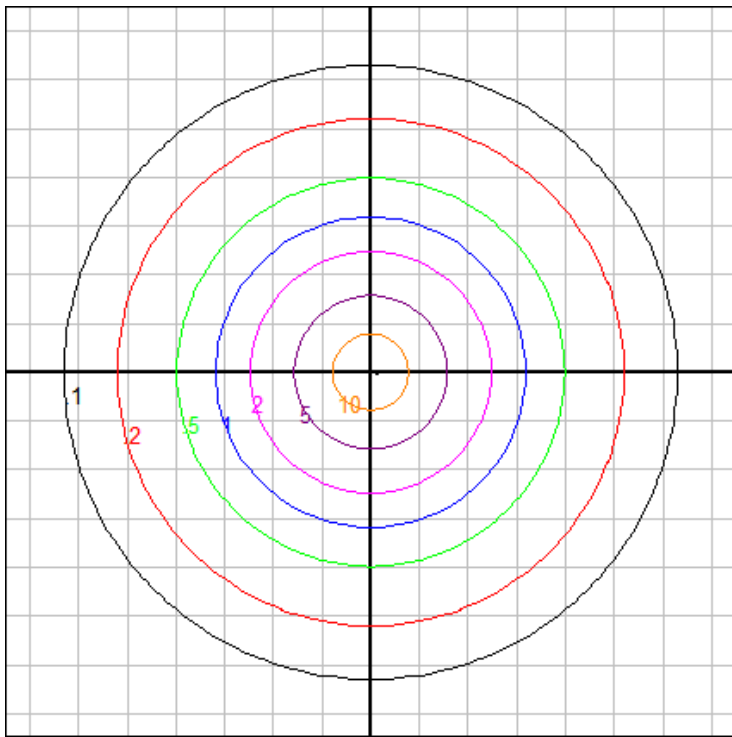


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17295
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	140
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	4.27 ft (Diameter)
Luminous Height	0.46 ft

Zonal Lumen Summary

Zone	Lumens
0-10	512.44
10-20	1465.23
20-30	2223.58
30-40	2693.8
40-50	2819.03
50-60	2586.25
60-70	2044.72
70-80	1295.19
80-90	545.10
90-100	170.80
100-110	133.11
110-120	141.57
120-130	151.24
130-140	153.31
140-150	145.90
150-160	114.19
160-170	73.78
170-180	26.09



Mounting Height:20 ft.

Grid Spacing:10 ft.

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

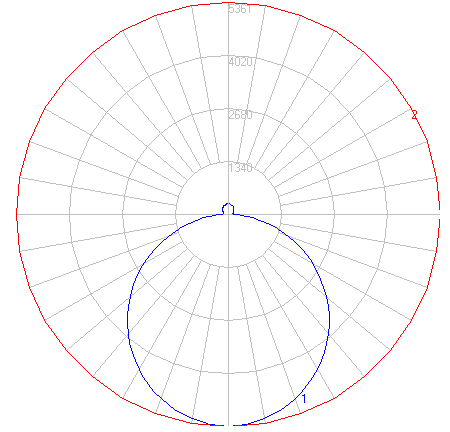
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BEGA

File: 50104K27_BEGA_IES.ies

TEST: BE_50104K4
 TEST LAB: BEGA
 DATE: 07/28/2016
 LUMINAIRE: 50 104K27
 LAMP: 123.2W LED

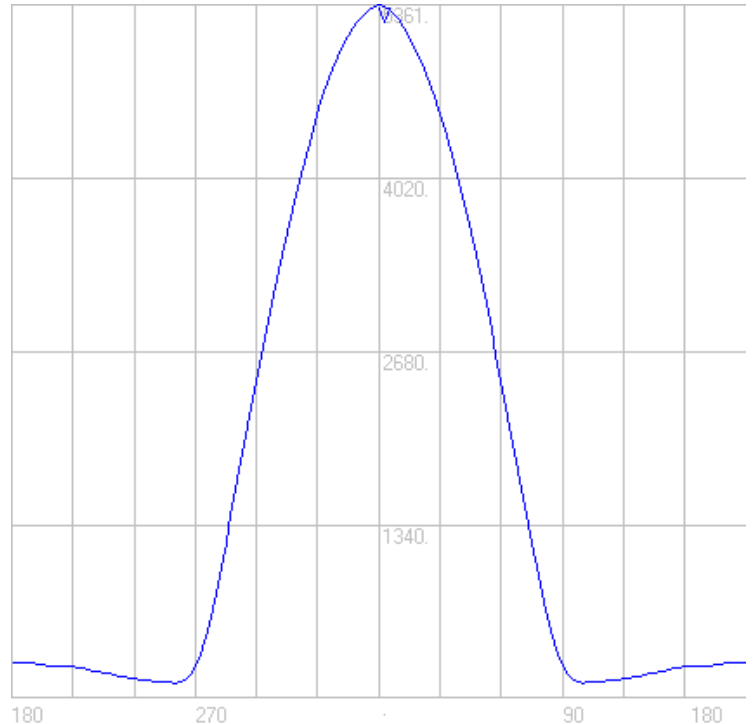
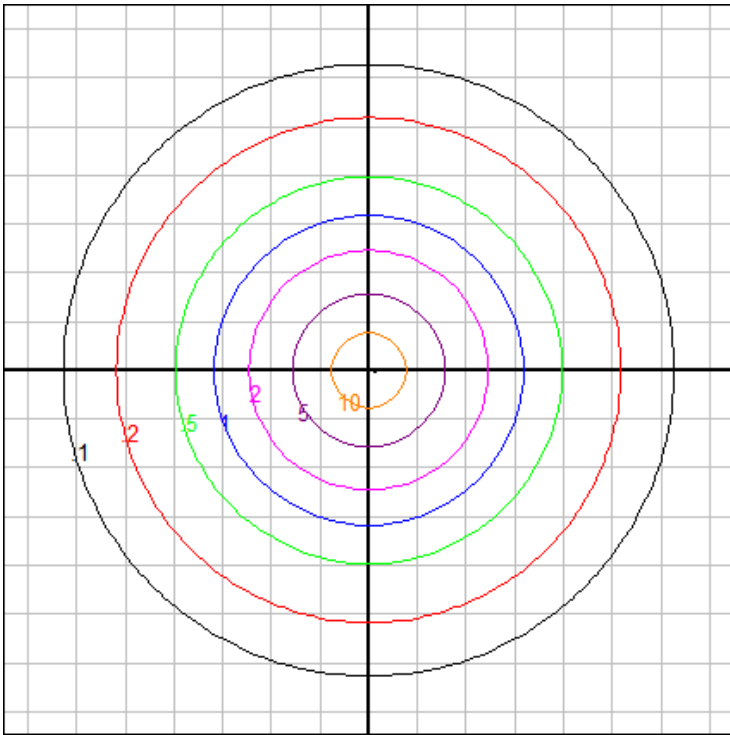


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17057
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	140
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	4.27 ft (Diameter)
Luminous Height	0.46 ft

Zonal Lumen Summary

Zone	Lumens
0-10	505.38
10-20	1445.05
20-30	2192.96
30-40	2656.7
40-50	2780.21
50-60	2550.64
60-70	2016.56
70-80	1277.36
80-90	537.60
90-100	168.45
100-110	131.28
110-120	139.62
120-130	149.16
130-140	151.20
140-150	143.89
150-160	112.62
160-170	72.77
170-180	25.73



Mounting Height: 20 ft.

Grid Spacing: 10 ft.

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