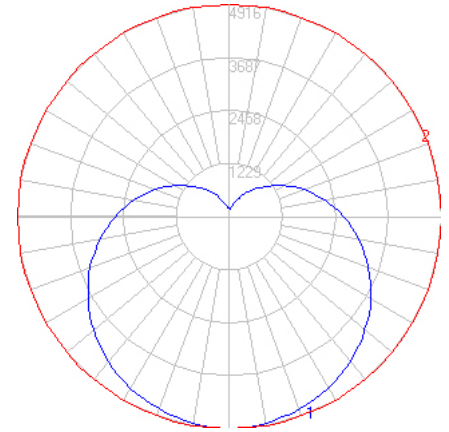


BEGA

File: 50402K4_BEGA_IES.ies

TEST: BE_50402K4
TEST LAB: BEGA
DATE: 04/15/2016
LUMINAIRE: 50 402K4
LAMP: 150.0W LED

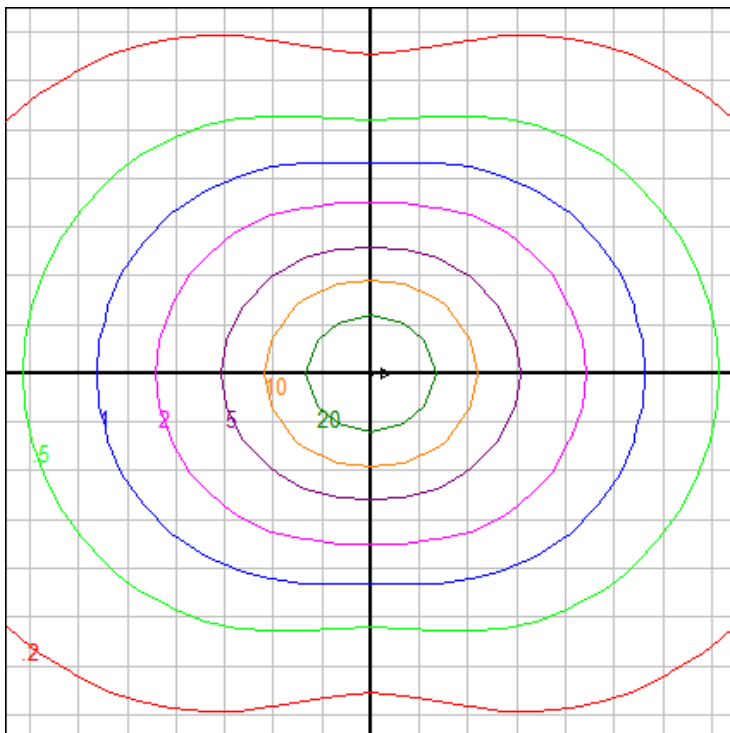


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18976
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	173
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Hor. Cylinder Along Length
Luminous Length (0-180)	9.85 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.26 ft (Diameter)

Zonal Lumen Summary

Zone	Lumens
0-10	359.35
10-20	1038.85
20-30	1609.86
30-40	2020.87
40-50	2241.33
50-60	2265.07
60-70	2113.21
70-80	1832.32
80-90	1499.81
90-100	1195.71
100-110	928.81
110-120	690.67
120-130	486.07
130-140	321.55
140-150	198.06
150-160	109.41
160-170	50.72
170-180	13.85



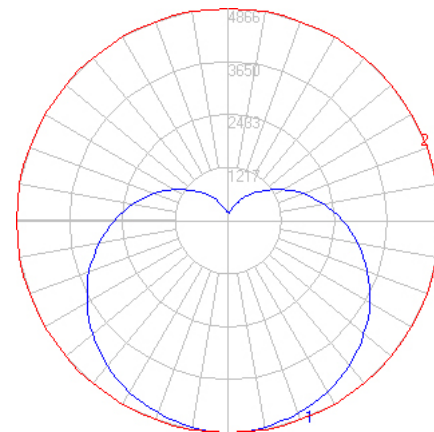
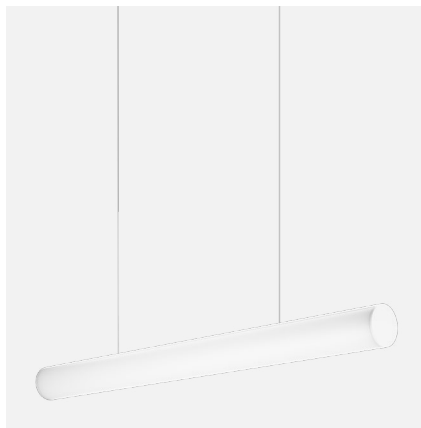
Mounting Height: 10 ft.

Grid Spacing: 5 ft.

BEGA

File: 50402K35_BEGA_IES.ies

TEST: BE_50402K4
TEST LAB: BEGA
DATE: 04/15/2016
LUMINAIRE: 50 402K35
LAMP: 150.0W LED

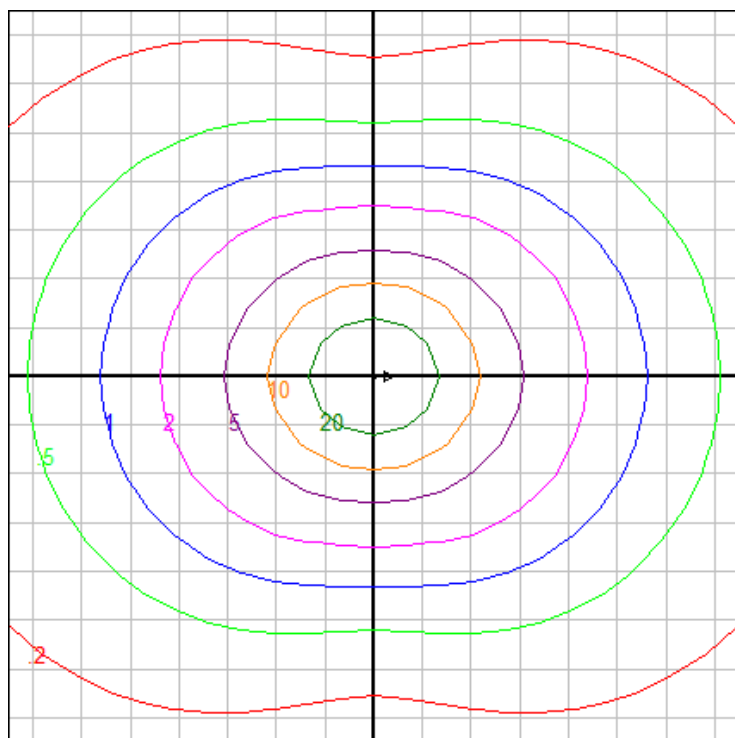


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18779
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	173
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Hor. Cylinder Along Length
Luminous Length (0-180)	9.85 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.26 ft (Diameter)

Zonal Lumen Summary

Zone	Lumens
0-10	355.63
10-20	1028.08
20-30	1593.18
30-40	1999.93
40-50	2218.1
50-60	2241.6
60-70	2091.31
70-80	1813.33
80-90	1484.26
90-100	1183.32
100-110	919.19
110-120	683.51
120-130	481.03
130-140	318.22
140-150	196.01
150-160	108.27
160-170	50.20
170-180	13.71



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

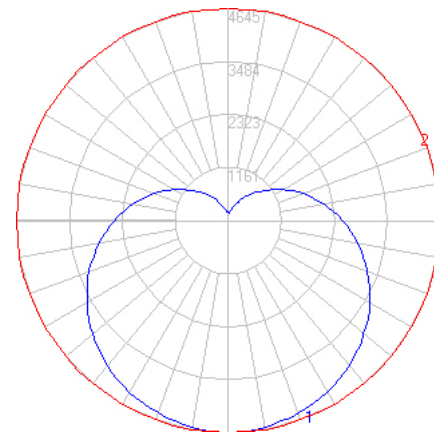
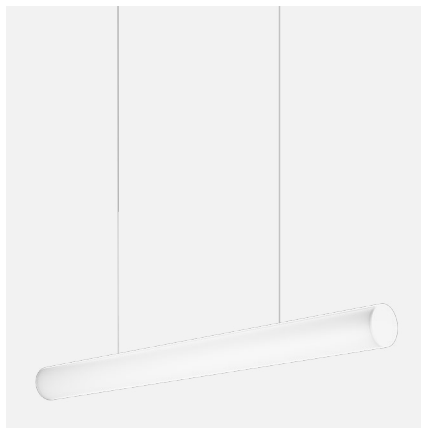
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BEGA

File: 50402K3_BEGA_IES.ies

TEST: BE_50402K4
TEST LAB: BEGA
DATE: 04/15/2016
LUMINAIRE: 50 402K3
LAMP: 150.0W LED

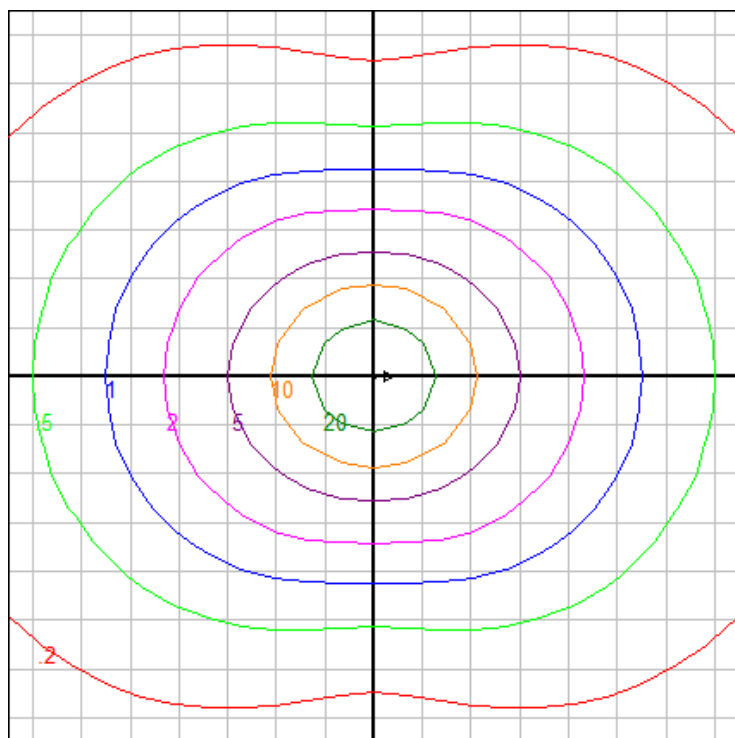


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17943
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	173
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Hor. Cylinder Along Length
Luminous Length (0-180)	9.85 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.26 ft (Diameter)

Zonal Lumen Summary

Zone	Lumens
0-10	339.80
10-20	982.33
20-30	1522.28
30-40	1910.93
40-50	2119.39
50-60	2141.84
60-70	1998.24
70-80	1732.63
80-90	1418.21
90-100	1130.66
100-110	878.28
110-120	653.09
120-130	459.62
130-140	304.06
140-150	187.28
150-160	103.45
160-170	47.96
170-180	13.10



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

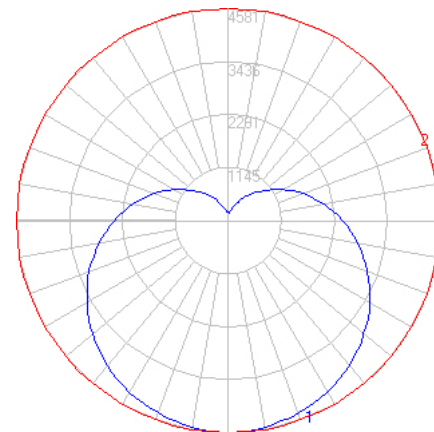
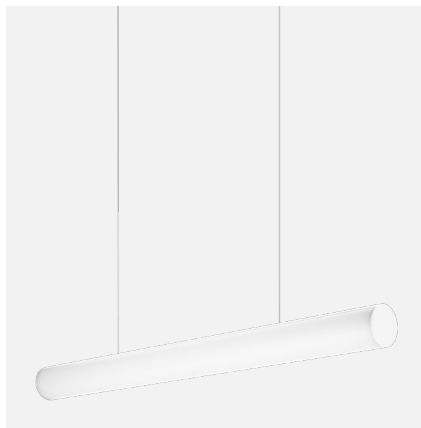
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BEGA

File: 50402K27_BEGA_IES.ies

TEST: BE_50402K4
TEST LAB: BEGA
DATE: 04/15/2016
LUMINAIRE: 50 402K27
LAMP: 150.0W LED

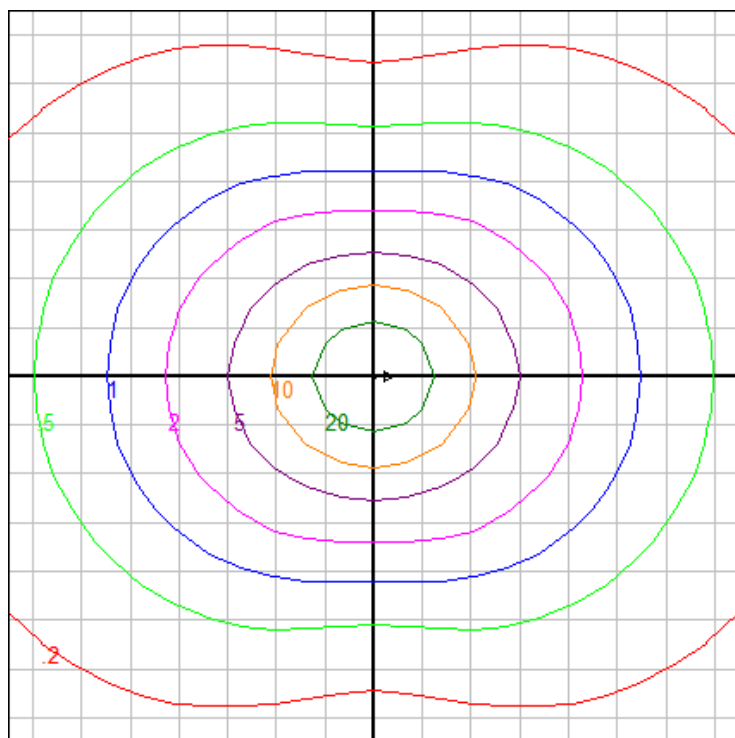


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17697
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	173
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Hor. Cylinder Along Length
Luminous Length (0-180)	9.85 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.26 ft (Diameter)

Zonal Lumen Summary

Zone	Lumens
0-10	335.15
10-20	968.87
20-30	1501.42
30-40	1884.75
40-50	2090.36
50-60	2112.5
60-70	1970.87
70-80	1708.9
80-90	1398.78
90-100	1115.17
100-110	866.25
110-120	644.15
120-130	453.33
130-140	299.89
140-150	184.72
150-160	102.04
160-170	47.31
170-180	12.92



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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