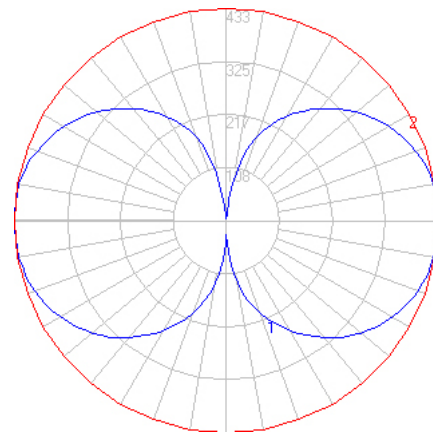


BEGA

File: 50411K4_BEGA_IES.ies

TEST: BE_50411K4
TEST LAB: BEGA
DATE: 09/18/2017
LUMINAIRE: 50 411K4
LAMP: 46.8W LED

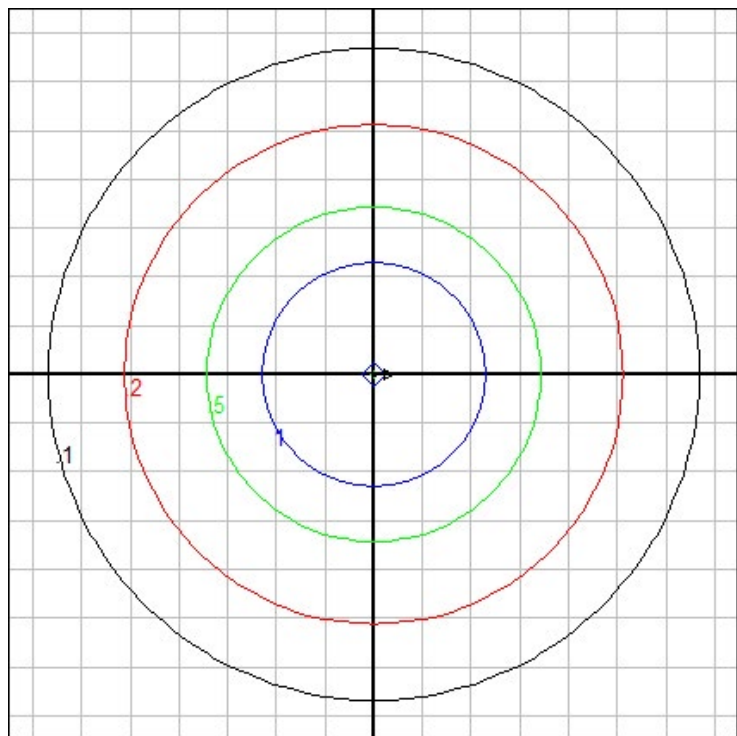


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4476
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	55
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.52 ft (Diameter)
Luminous Height	2.30 ft

Zonal Lumen Summary

Zone	Lumens
0-10	9.18
10-20	48.38
20-30	107.80
30-40	180.50
40-50	260.38
50-60	337.88
60-70	403.65
70-80	449.45
80-90	471.55
90-100	471.60
100-110	447.00
110-120	395.86
120-130	327.32
130-140	250.11
140-150	171.89
150-160	100.17
160-170	39.41
170-180	3.41



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

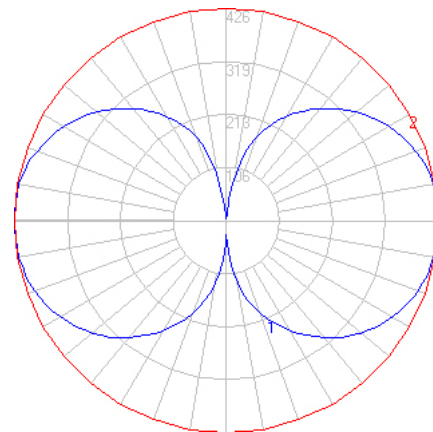
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File: 50411K35_BEGA_IES.ies

TEST: BE_50411K4
TEST LAB: BEGA
DATE: 09/18/2017
LUMINAIRE: 50 411K35
LAMP: 46.8W LED

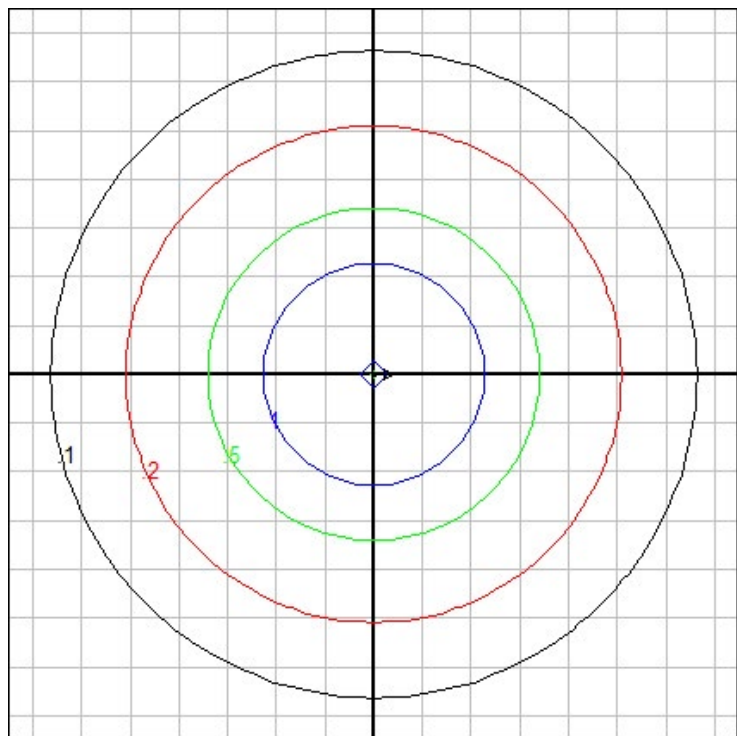


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4399
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	55
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.52 ft (Diameter)
Luminous Height	2.30 ft

Zonal Lumen Summary

Zone	Lumens
0-10	9.03
10-20	47.56
20-30	105.97
30-40	177.44
40-50	255.95
50-60	332.14
60-70	396.79
70-80	441.81
80-90	463.53
90-100	463.58
100-110	439.40
110-120	389.13
120-130	321.76
130-140	245.86
140-150	168.97
150-160	98.47
160-170	38.74
170-180	3.35



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

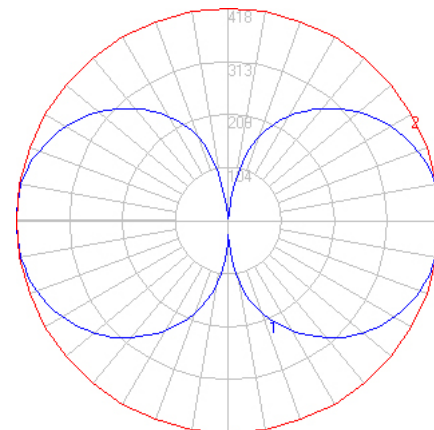
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File: 50411K3_BEGA_IES.ies

TEST: BE_50411K4
TEST LAB: BEGA
DATE: 09/18/2017
LUMINAIRE: 50 411K3
LAMP: 46.8W LED

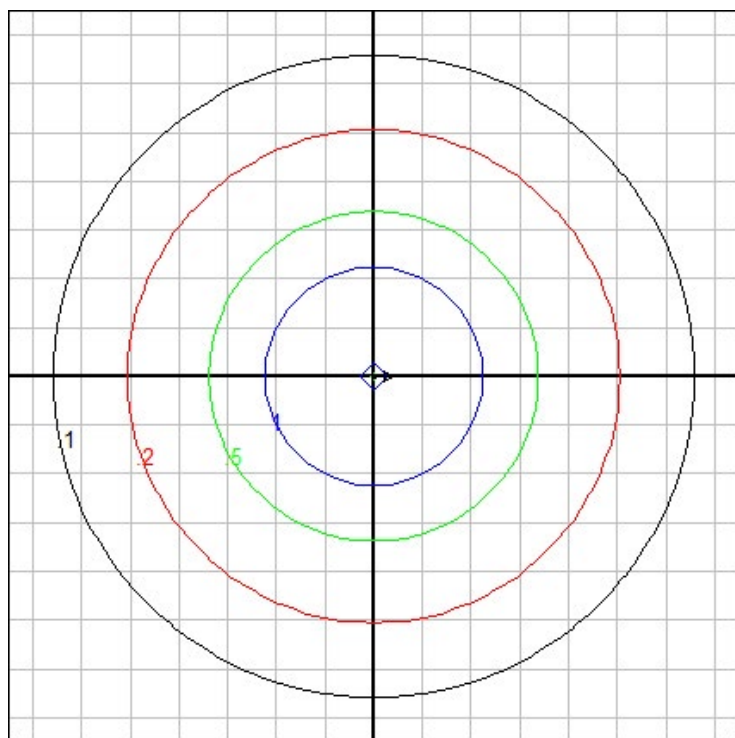


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4319
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	55
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.52 ft (Diameter)
Luminous Height	2.30 ft

Zonal Lumen Summary

Zone	Lumens
0-10	8.86
10-20	46.69
20-30	104.03
30-40	174.19
40-50	251.26
50-60	326.06
60-70	389.53
70-80	433.72
80-90	455.04
90-100	455.10
100-110	431.35
110-120	382.00
120-130	315.87
130-140	241.35
140-150	165.87
150-160	96.67
160-170	38.03
170-180	3.29



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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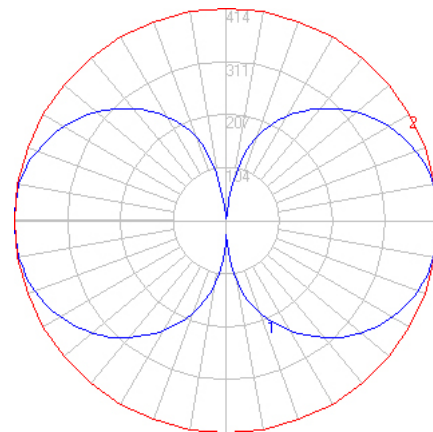
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BEGA

File: 50411K27_BEGA_IES.ies

TEST: BE_50411K4
TEST LAB: BEGA
DATE: 09/18/2017
LUMINAIRE: 50 411K27
LAMP: 46.8W LED

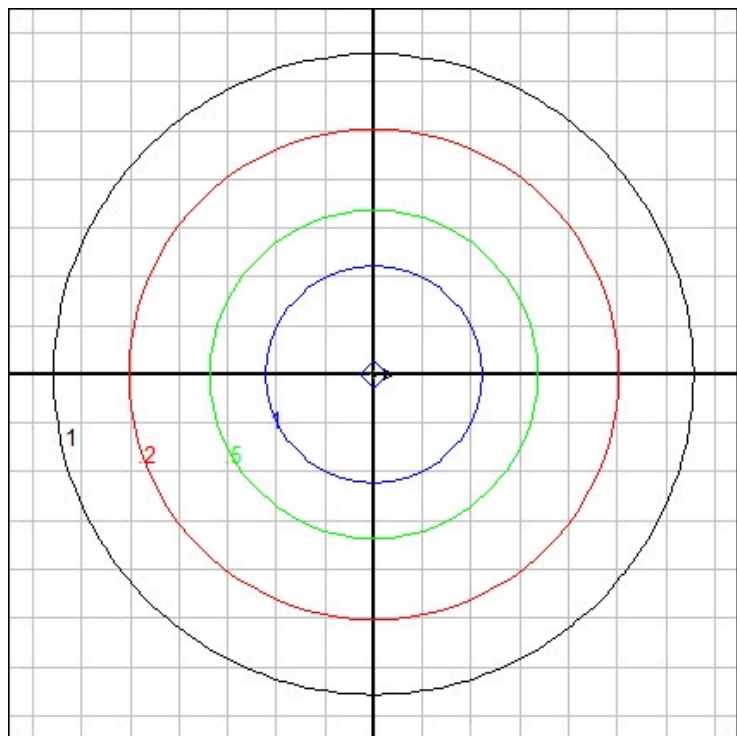


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4283
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	55
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.52 ft (Diameter)
Luminous Height	2.30 ft

Zonal Lumen Summary

Zone	Lumens
0-10	8.79
10-20	46.30
20-30	103.17
30-40	172.74
40-50	249.18
50-60	323.36
60-70	386.30
70-80	430.12
80-90	451.27
90-100	451.32
100-110	427.78
110-120	378.83
120-130	313.25
130-140	239.35
140-150	164.50
150-160	95.86
160-170	37.71
170-180	3.26



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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