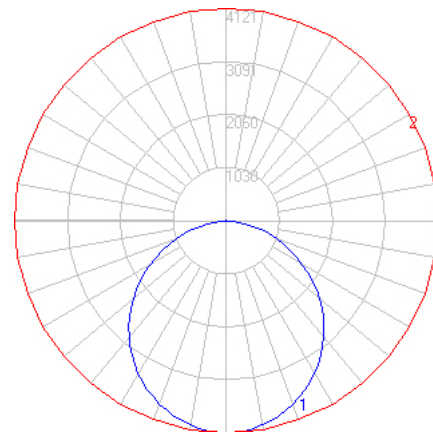


BEGA

File: 50366.2K4_BEGA_IES.ies

TEST: BE_50366.2K3
TEST LAB: BEGA
DATE: 10/06/2016
LUMINAIRE: 50 366.2K4
LAMP: 92.4W LED

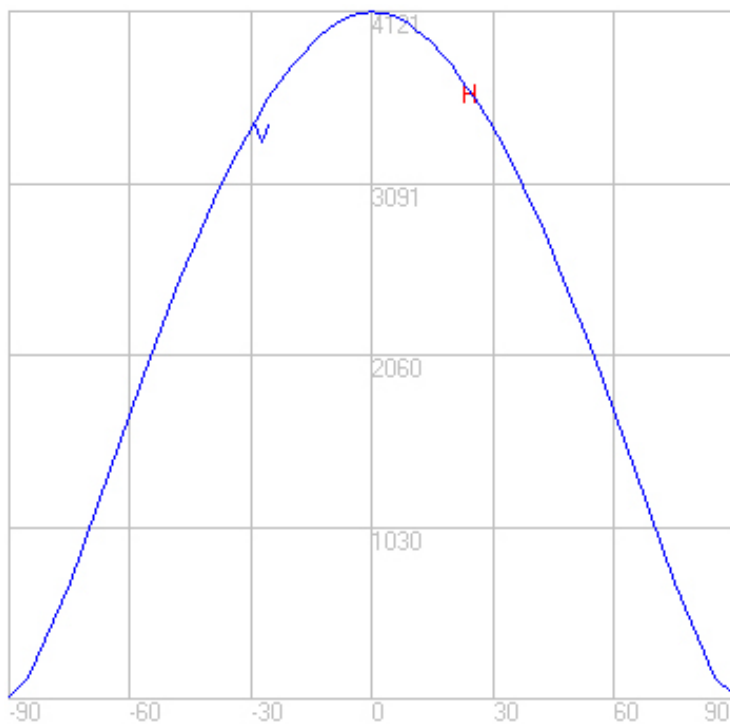
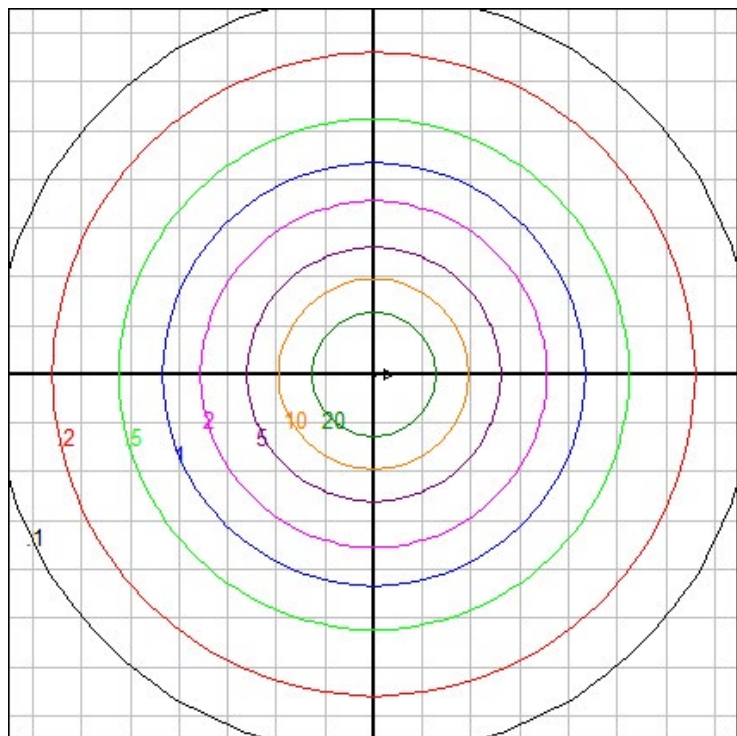


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11324
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	3.20 m (Diameter)
Luminous Height	0.00 m

Zonal Lumen Summary

Zone	Lumens
0-10	389.48
10-20	1109.2
20-30	1671.52
30-40	2001.53
40-50	2055.84
50-60	1829.88
60-70	1360.03
70-80	732.16
80-90	161.29
90-100	4.41
100-110	1.39
110-120	0.83
120-130	0.74
130-140	1.36
140-150	3.50
150-160	1.05
160-170	0.01
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

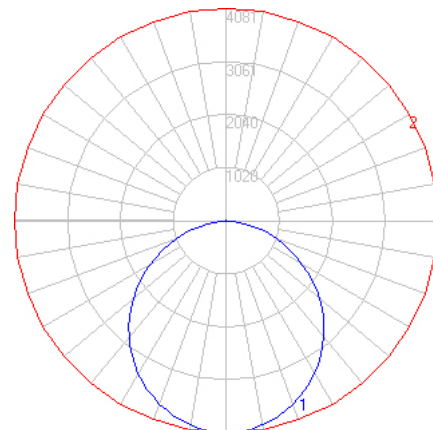
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BEGA

File: 50366.2K35_BEGA_IES.ies

TEST: BE_50366.2K3
TEST LAB: BEGA
DATE: 10/06/2016
LUMINAIRE: 50 366.2K35
LAMP: 92.4W LED

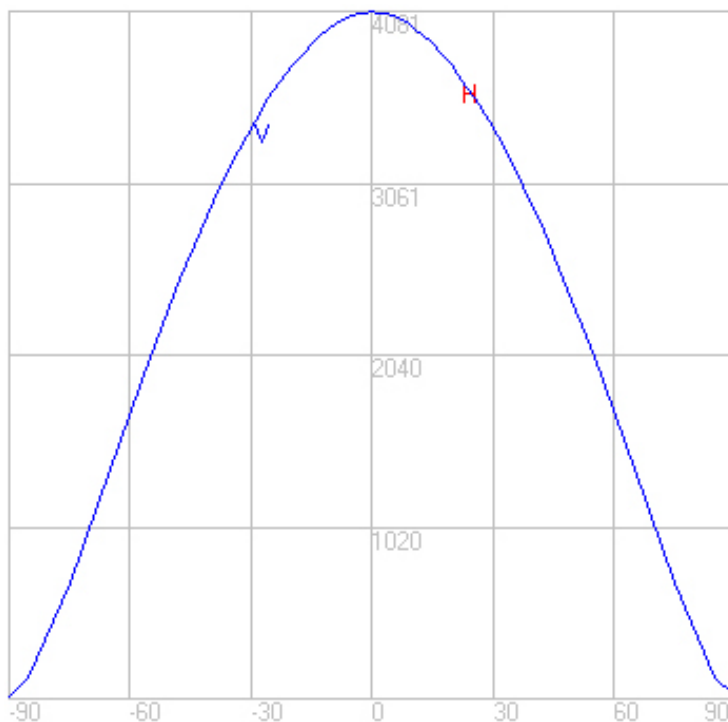
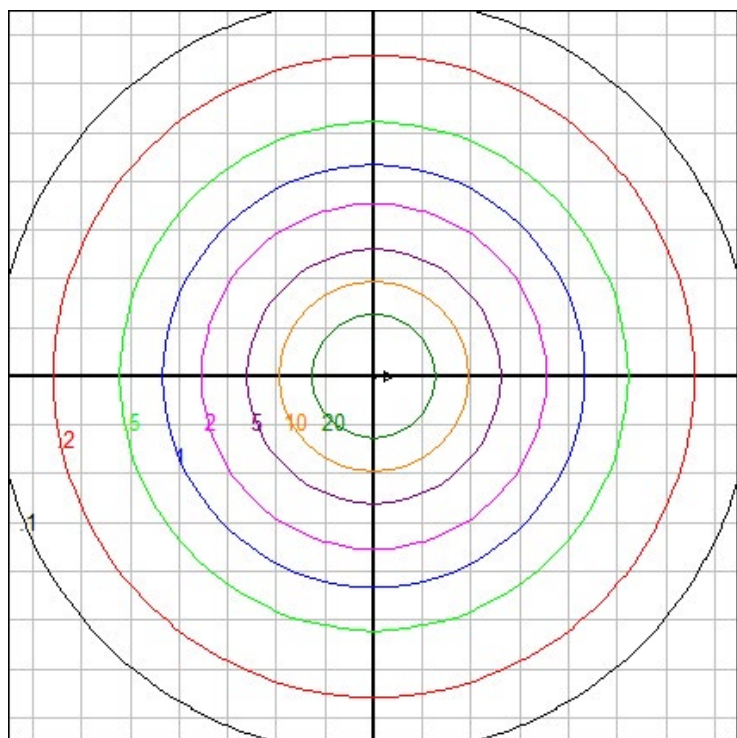


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11214
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.30 ft (Diameter)
Luminous Height	0.00 ft

Zonal Lumen Summary

Zone	Lumens
0-10	385.70
10-20	1098.43
20-30	1655.29
30-40	1982.1
40-50	2035.88
50-60	1812.11
60-70	1346.83
70-80	725.05
80-90	159.73
90-100	4.36
100-110	1.38
110-120	0.82
120-130	0.73
130-140	1.35
140-150	3.47
150-160	1.04
160-170	0.01
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

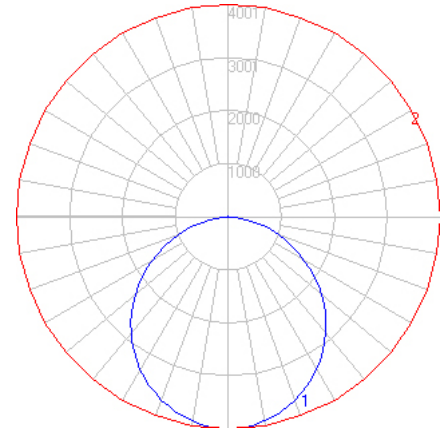
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BEGA

File: 50366.2K3_BEGBA_IES.ies

TEST: BE_50366.2K3
TEST LAB: BEGA
DATE: 10/06/2016
LUMINAIRE: 50 366.2K3
LAMP: 92.4W LED

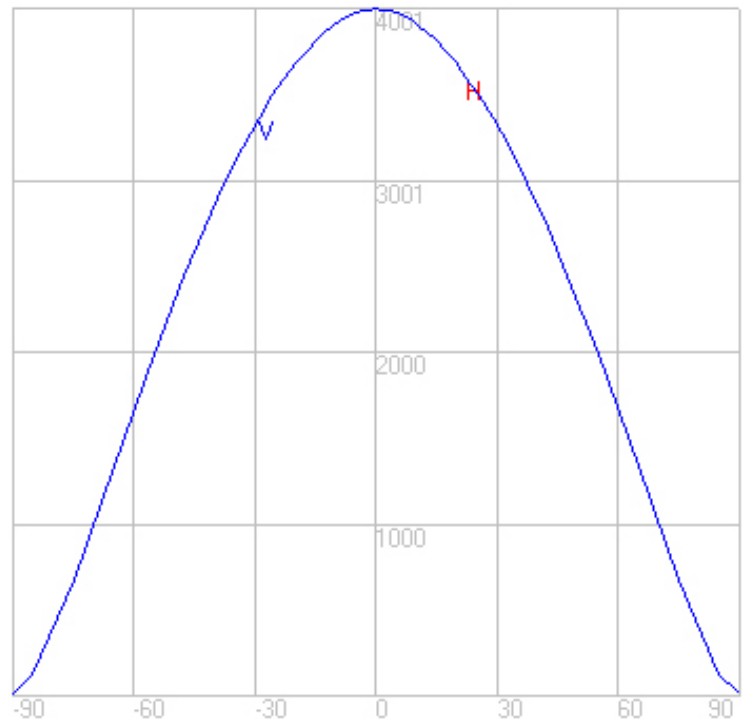
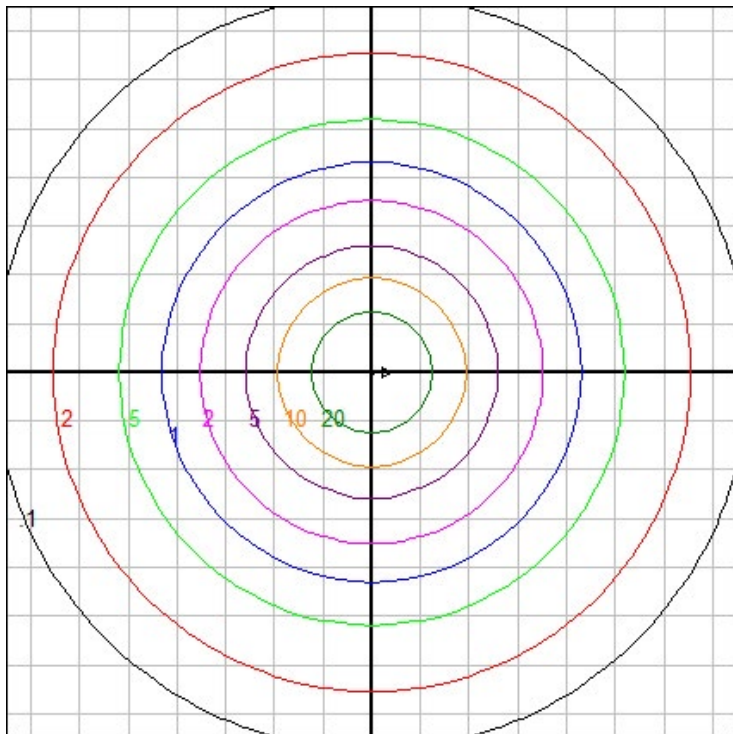


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10990
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	4.30 ft (Diameter)
Luminous Height	0.00 ft

Zonal Lumen Summary

Zone	Lumens
0-10	378.13
10-20	1076.9
20-30	1622.83
30-40	1943.23
40-50	1995.96
50-60	1776.58
60-70	1320.42
70-80	710.84
80-90	156.59
90-100	4.28
100-110	1.35
110-120	0.81
120-130	0.72
130-140	1.32
140-150	3.40
150-160	1.02
160-170	0.01
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

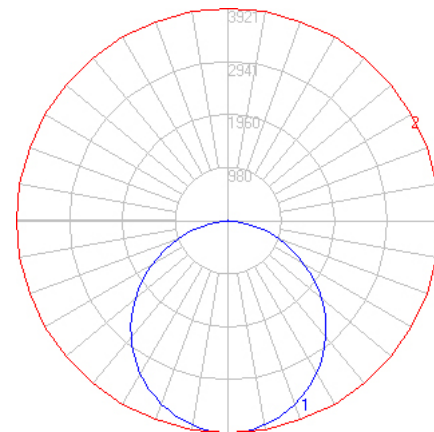
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File: 50366.2K27_BEGA_IES.ies

TEST: BE_50366.2K3
 TEST LAB: BEGA
 DATE: 10/06/2016
 LUMINAIRE: 50 366.2K27
 LAMP: 92.4W LED

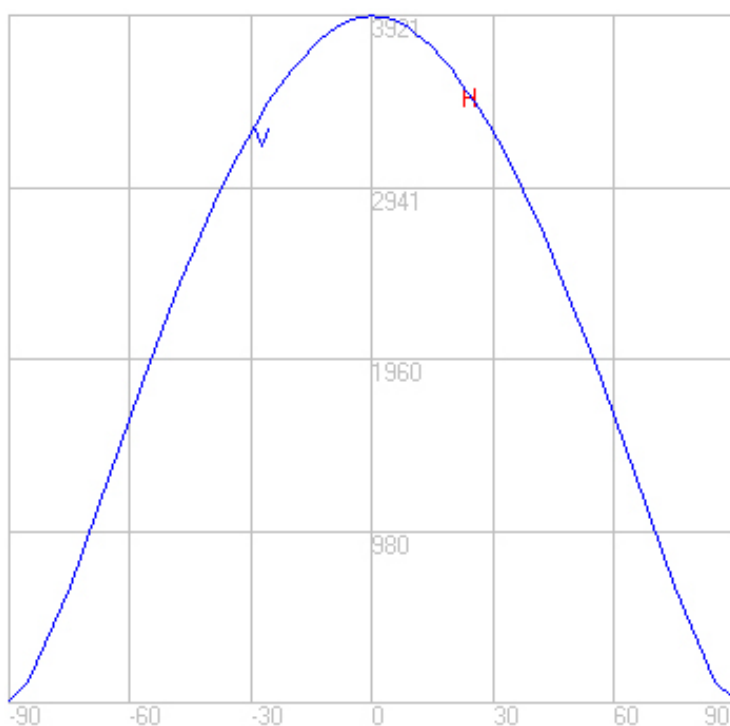
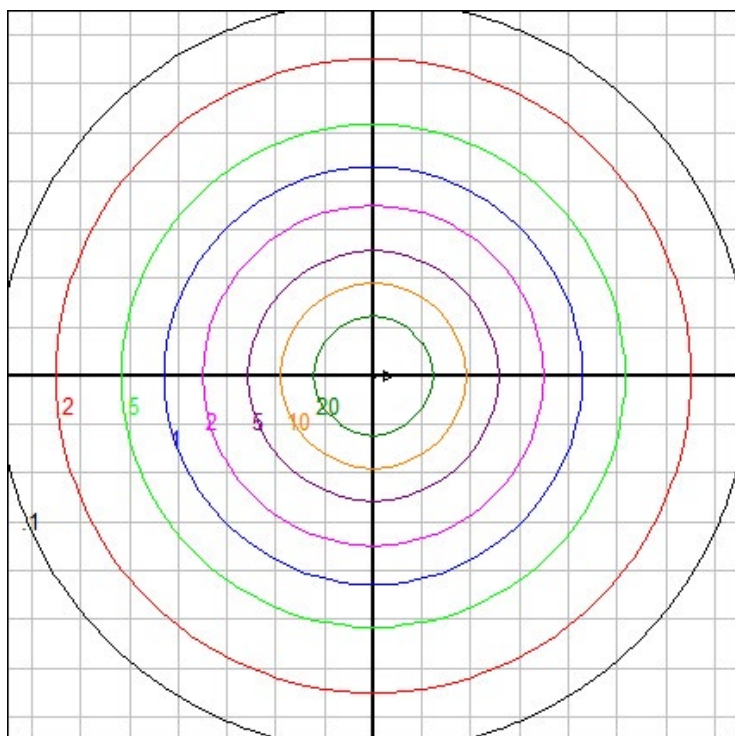


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10774
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.20 ft (Diameter)
Luminous Height	0.00 ft

Zonal Lumen Summary

Zone	Lumens
0-10	370.57
10-20	1055.36
20-30	1590.38
30-40	1904.37
40-50	1956.04
50-60	1741.05
60-70	1294.01
70-80	696.62
80-90	153.46
90-100	4.19
100-110	1.33
110-120	0.79
120-130	0.70
130-140	1.30
140-150	3.33
150-160	1.00
160-170	0.01
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

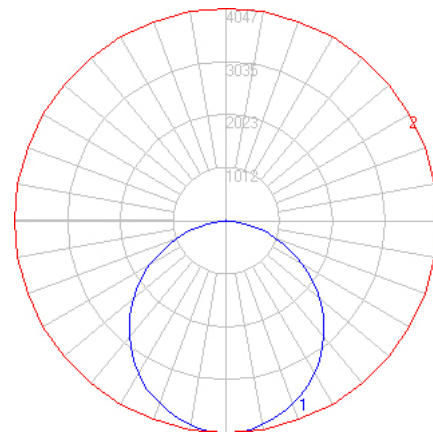
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File: 50366.4K4_BEGA_IES.ies

TEST: BE_50366.4K3
TEST LAB: BEGA
DATE: 10/05/2016
LUMINAIRE: 50 366.4K4
LAMP: 92.4W LED

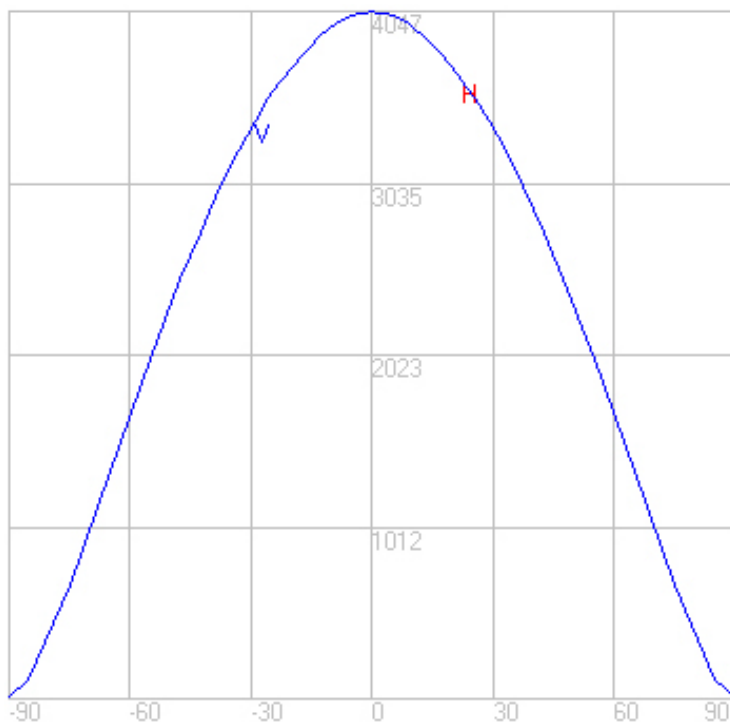
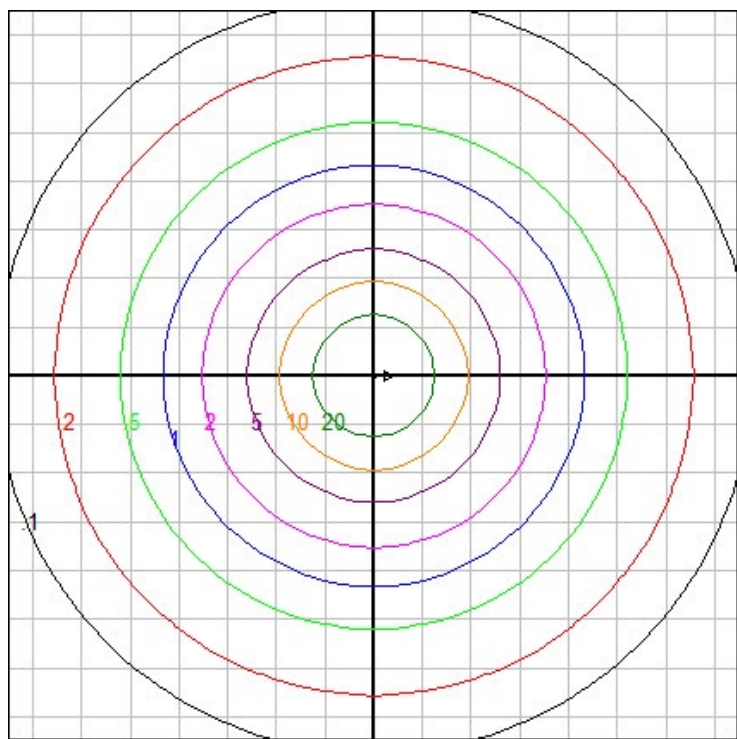


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11097
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	4.30 ft (Diameter)
Luminous Height	0.00 ft

Zonal Lumen Summary

Zone	Lumens
0-10	382.52
10-20	1088.41
20-30	1639.69
30-40	1961.88
40-50	2014.84
50-60	1793.23
60-70	1332.74
70-80	716.55
80-90	154.75
90-100	4.02
100-110	1.38
110-120	0.83
120-130	0.74
130-140	1.36
140-150	3.45
150-160	1.04
160-170	0.01
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

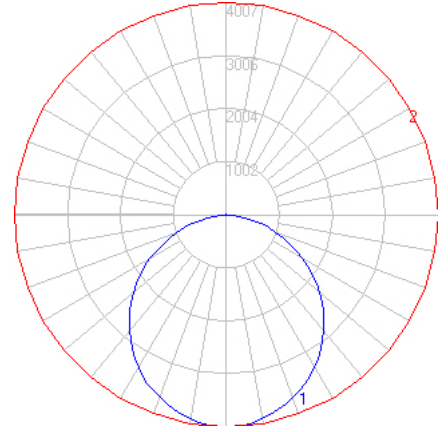
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File: 50366.4K35_BEGA_IES.ies

TEST: BE_50366.4K3
TEST LAB: BEGA
DATE: 10/05/2016
LUMINAIRE: 50 366.4K35
LAMP: 92.4W LED

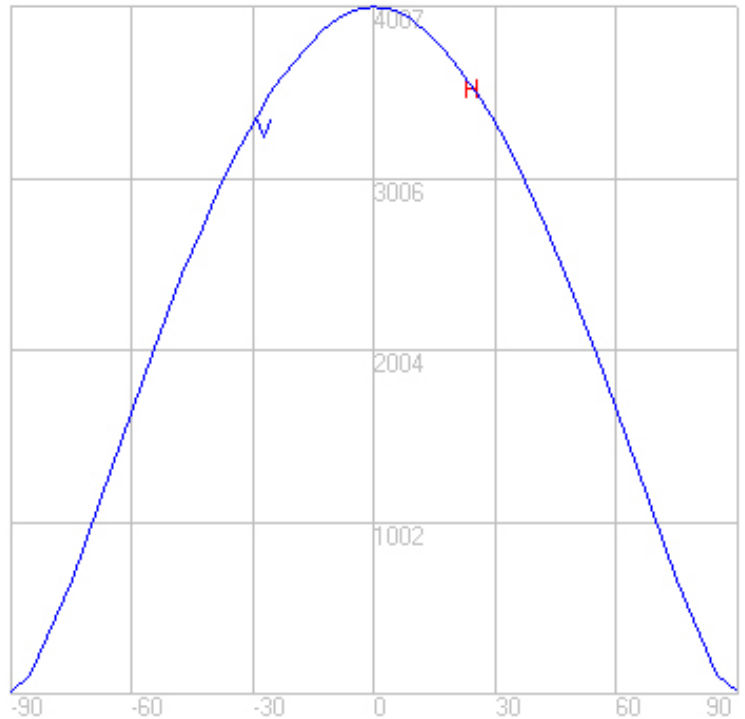
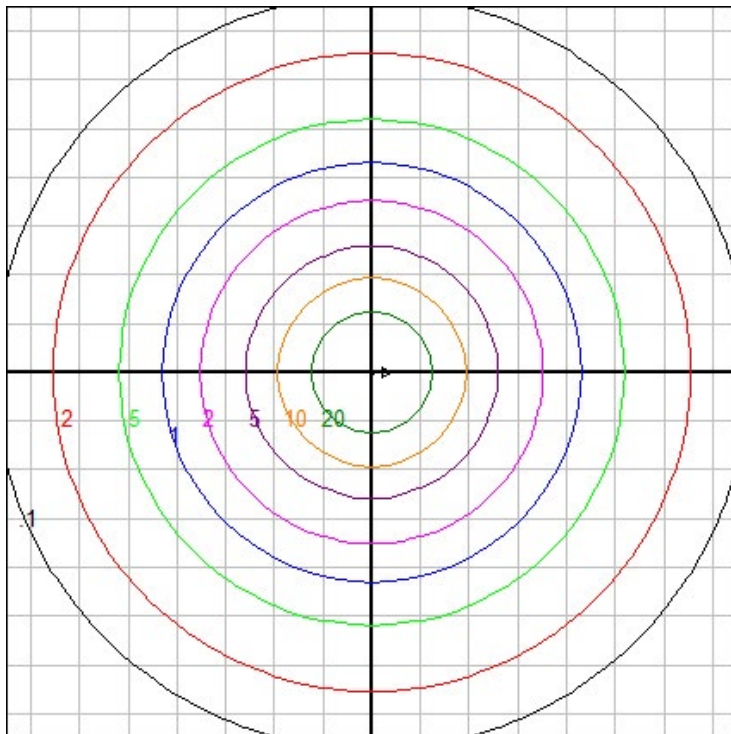


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10990
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	4.30 ft (Diameter)
Luminous Height	0.00 ft

Zonal Lumen Summary

Zone	Lumens
0-10	378.81
10-20	1077.84
20-30	1623.77
30-40	1942.83
40-50	1995.28
50-60	1775.82
60-70	1319.8
70-80	709.60
80-90	153.25
90-100	3.99
100-110	1.37
110-120	0.82
120-130	0.73
130-140	1.35
140-150	3.41
150-160	1.03
160-170	0.01
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

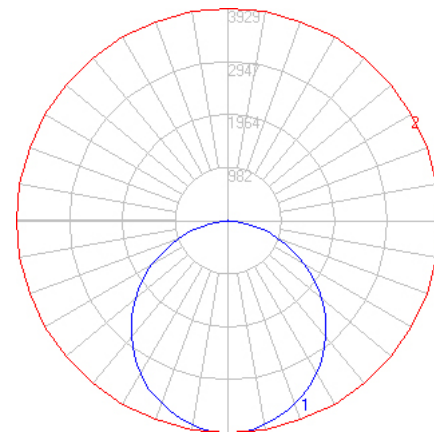
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BEGA

File: 50366.4K3_BEGA_IES.ies

TEST: BE_50366.4K3
TEST LAB: BEGA
DATE: 10/05/2016
LUMINAIRE: 50 366.4K3
LAMP: 92.4W LED

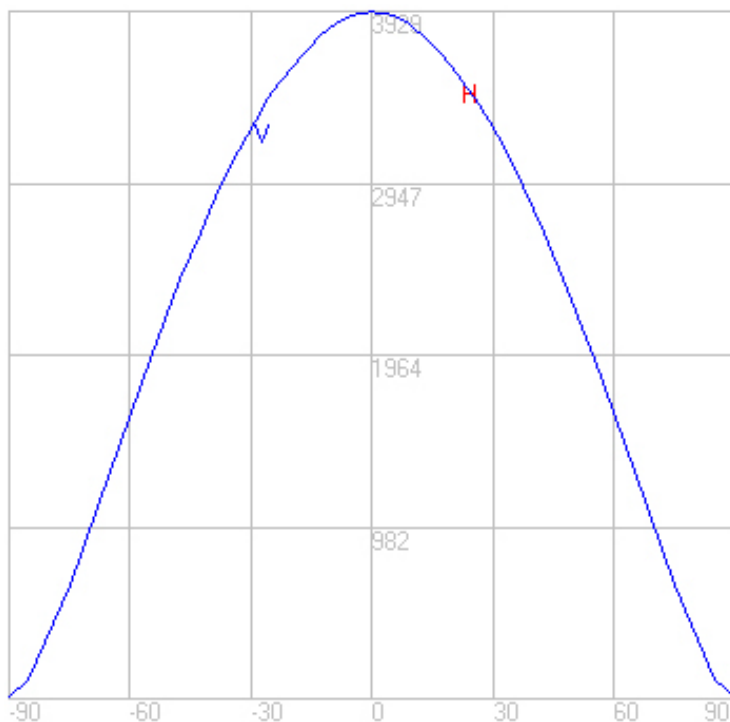
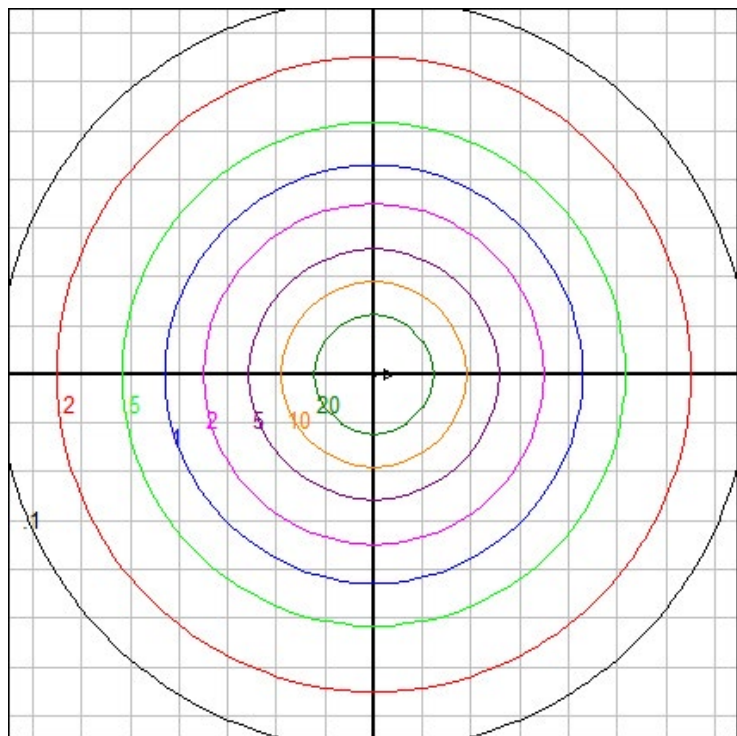


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10774
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.30 ft (Diameter)
Luminous Height	0.00 ft

Zonal Lumen Summary

Zone	Lumens
0-10	371.38
10-20	1056.7
20-30	1591.93
30-40	1904.74
40-50	1956.16
50-60	1741.00
60-70	1293.93
70-80	695.68
80-90	150.25
90-100	3.91
100-110	1.34
110-120	0.81
120-130	0.72
130-140	1.32
140-150	3.35
150-160	1.01
160-170	0.01
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

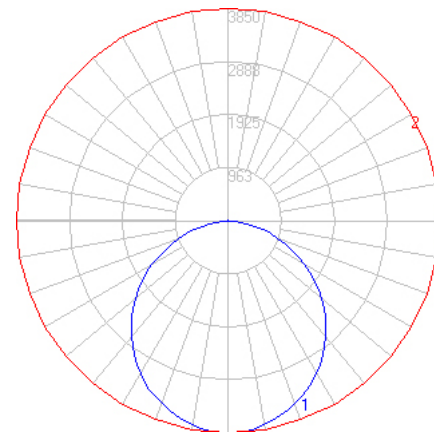
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BEGA

File: 50366.4K27_BEGA_IES.ies

TEST: BE_50366.4K3
 TEST LAB: BEGA
 DATE: 10/05/2016
 LUMINAIRE: 50 366.4K27
 LAMP: 92.4W LED

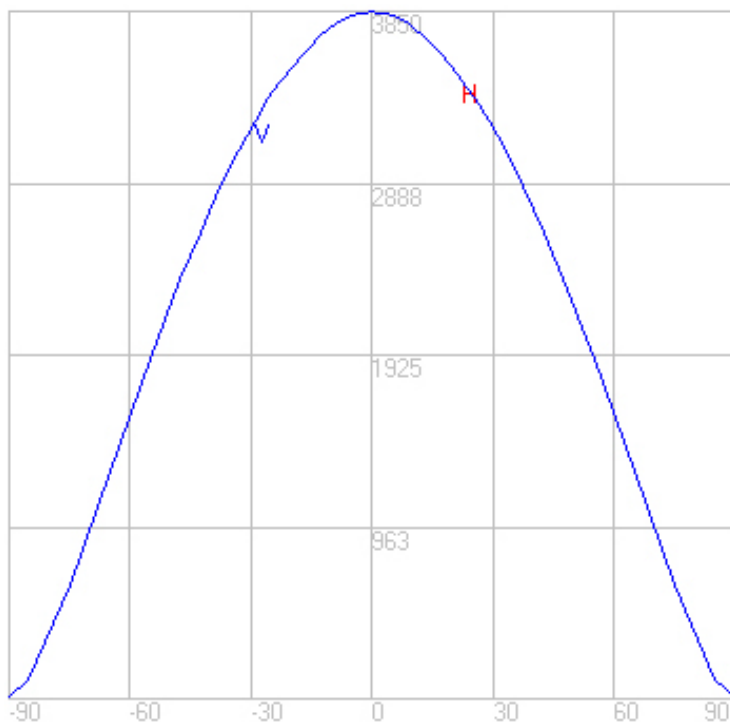
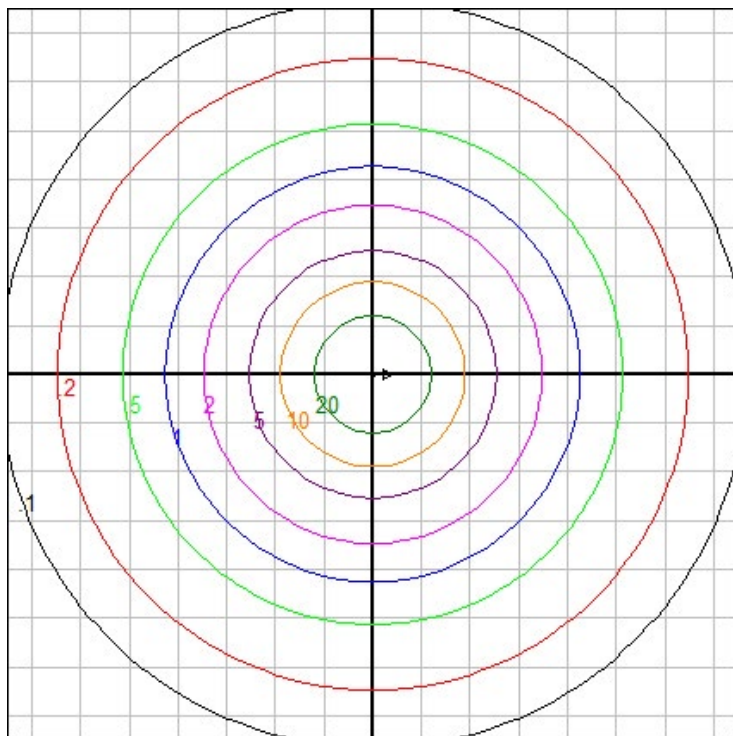


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10559
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	4.30 ft (Diameter)
Luminous Height	0.00 ft

Zonal Lumen Summary

Zone	Lumens
0-10	363.95
10-20	1035.57
20-30	1560.1
30-40	1866.64
40-50	1917.04
50-60	1706.18
60-70	1268.05
70-80	681.77
80-90	147.24
90-100	3.83
100-110	1.31
110-120	0.79
120-130	0.70
130-140	1.30
140-150	3.28
150-160	0.99
160-170	0.01
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

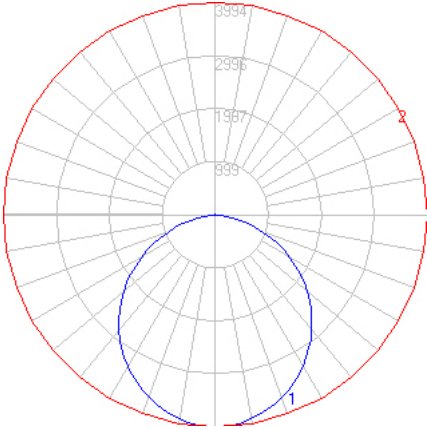
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BEGA

File: 50366.6K4_BEGA_IES.ies

TEST: BE_50366.6K3
TEST LAB: BEGA
DATE: 10/05/2016
LUMINAIRE: 50 366.6K4
LAMP: 92.4W LED

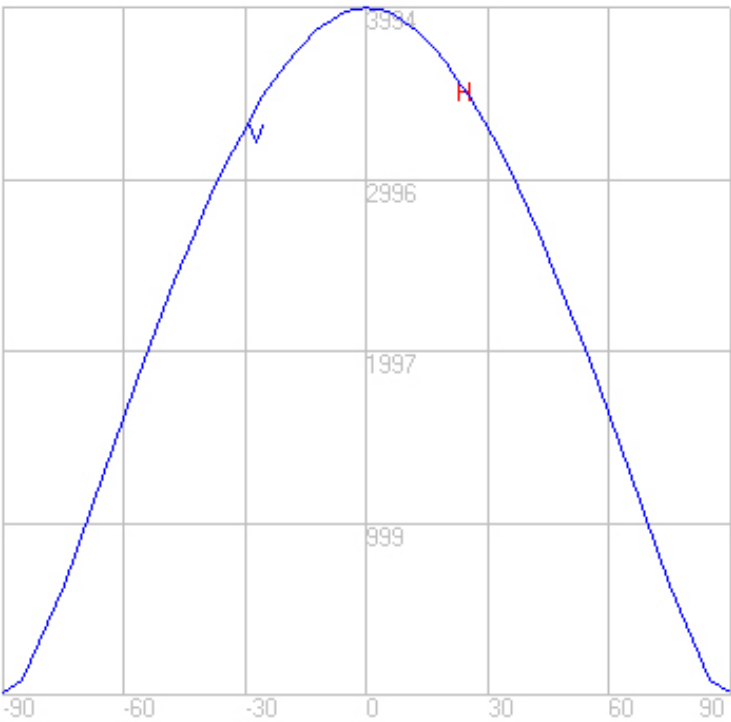
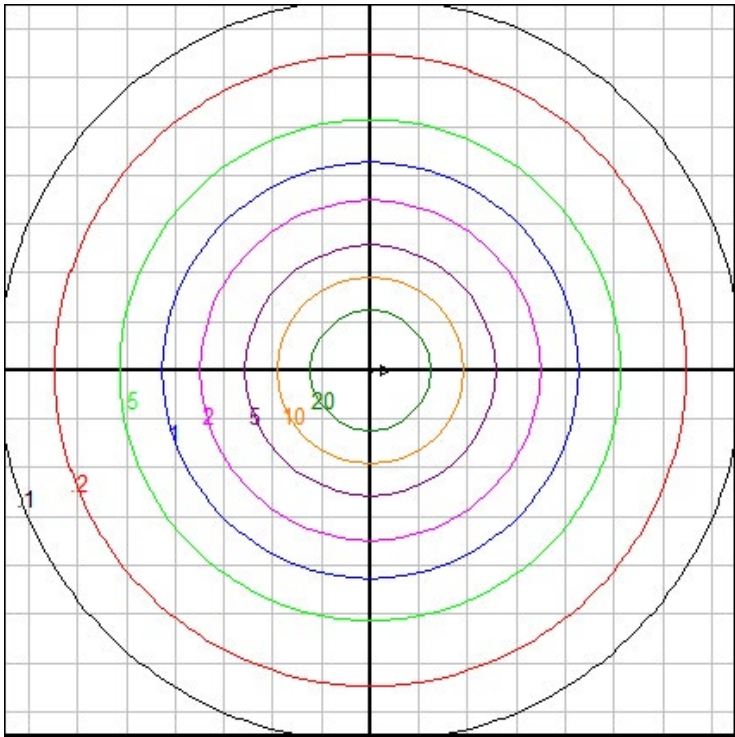


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10790
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	4.30 m (Diameter)
Luminous Height	0.00 m

Zonal Lumen Summary

Zone	Lumens
0-10	377.06
10-20	1072.48
20-30	1611.63
30-40	1923.6
40-50	1968.02
50-60	1741.02
60-70	1281.2
70-80	673.57
80-90	131.15
90-100	3.11
100-110	1.05
110-120	0.61
120-130	0.62
130-140	1.21
140-150	3.19
150-160	0.94
160-170	0.00
170-180	0.00

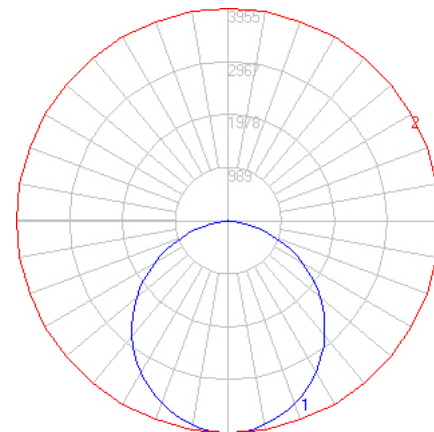


Mounting Height: 10 ft. Grid Spacing: 5 ft.

BEGA

File: 50366.6K35_BEGA_IES.ies

TEST: BE_50366.6K3
TEST LAB: BEGA
DATE: 10/05/2016
LUMINAIRE: 50 366.6K35
LAMP: 92.4W LED

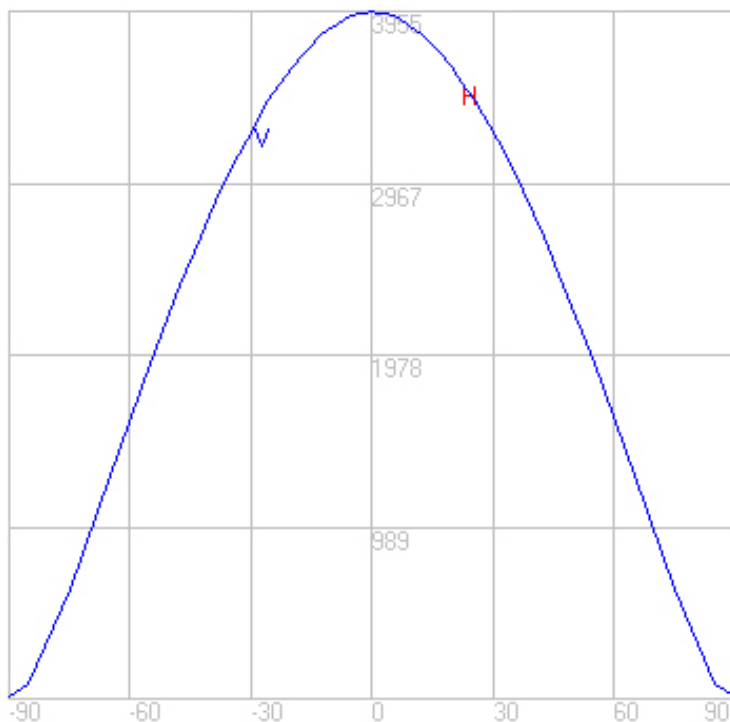
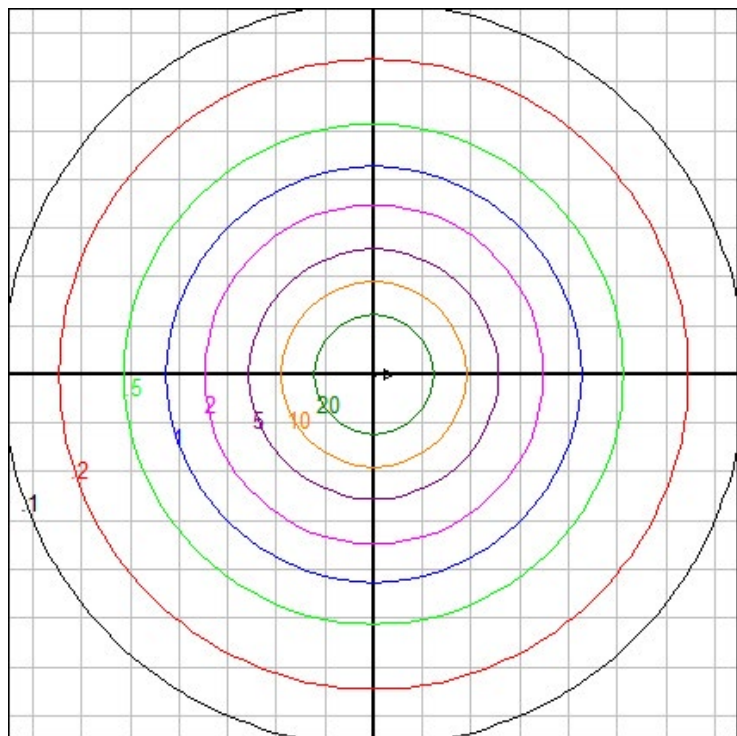


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10686
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	4.30 m (Diameter)
Luminous Height	0.00 m

Zonal Lumen Summary

Zone	Lumens
0-10	373.40
10-20	1062.07
20-30	1595.98
30-40	1904.92
40-50	1948.91
50-60	1724.12
60-70	1268.77
70-80	667.03
80-90	129.88
90-100	3.08
100-110	1.04
110-120	0.61
120-130	0.62
130-140	1.19
140-150	3.16
150-160	0.93
160-170	0.00
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

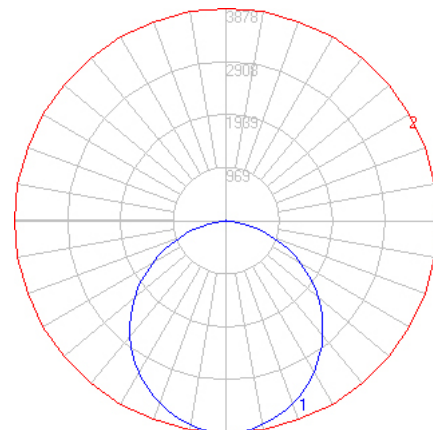
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BEGA

File: 50366.6K3_BEGA_IES.ies

TEST: BE_50366.6K3
TEST LAB: BEGA
DATE: 10/05/2016
LUMINAIRE: 50 366.6K3
LAMP: 92.4W LED

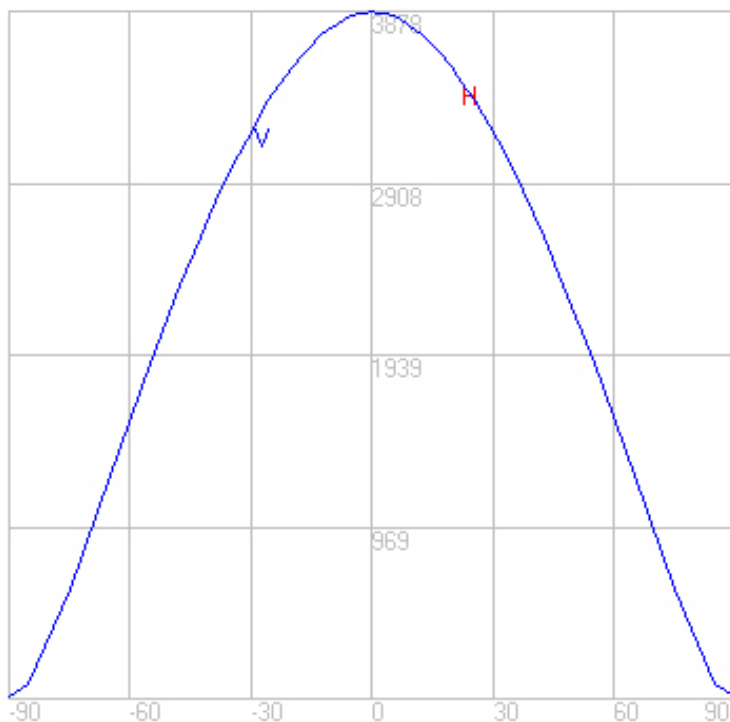
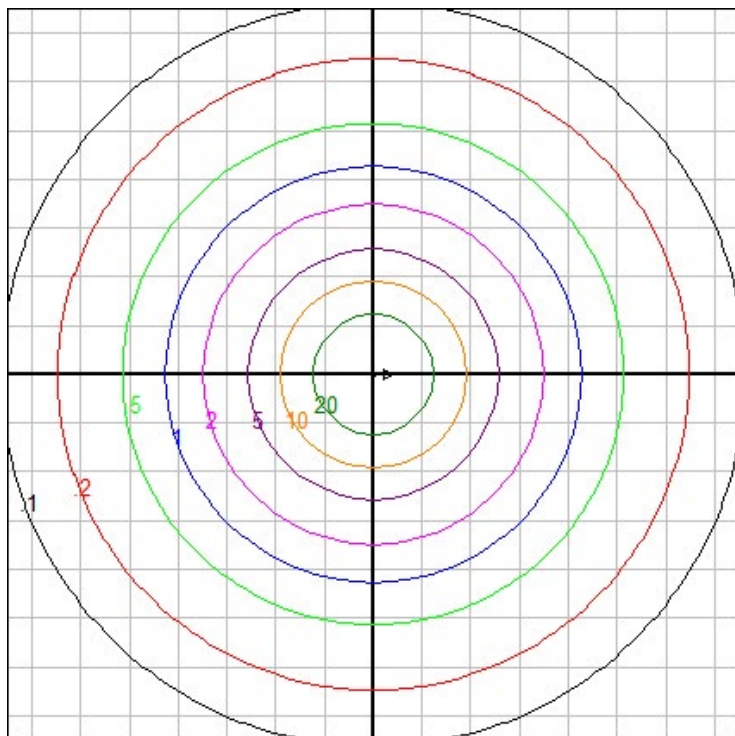


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10476
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	4.30 ft (Diameter)
Luminous Height	0.00 ft

Zonal Lumen Summary

Zone	Lumens
0-10	366.08
10-20	1041.24
20-30	1564.69
30-40	1867.57
40-50	1910.7
50-60	1690.31
60-70	1243.89
70-80	653.96
80-90	127.33
90-100	3.02
100-110	1.02
110-120	0.60
120-130	0.61
130-140	1.17
140-150	3.10
150-160	0.91
160-170	0.00
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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

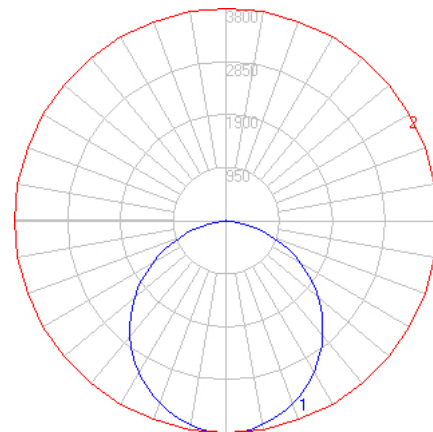
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File: 50366.6K27_BEGA_IES.ies

TEST: BE_50366.6K3
 TEST LAB: BEGA
 DATE: 10/05/2016
 LUMINAIRE: 50 366.6K27
 LAMP: 92.4W LED

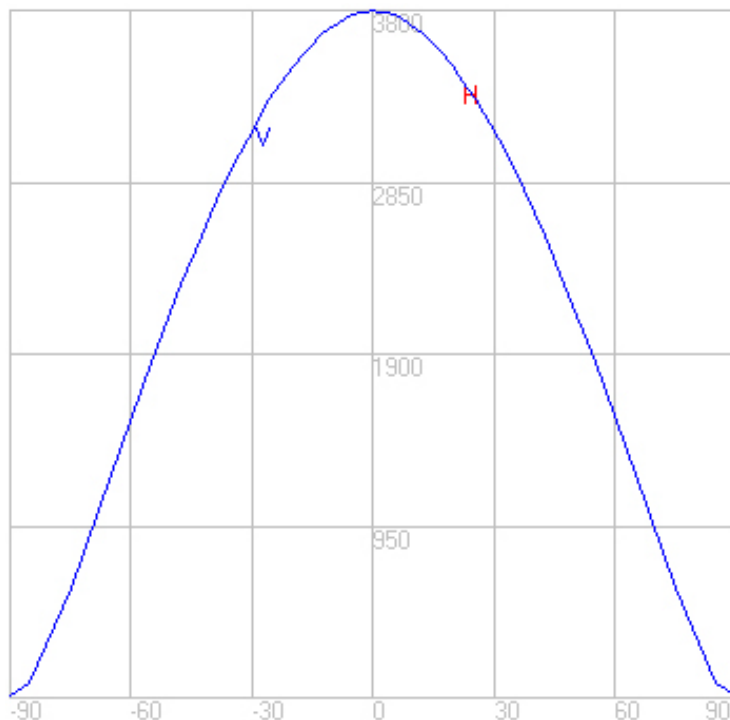
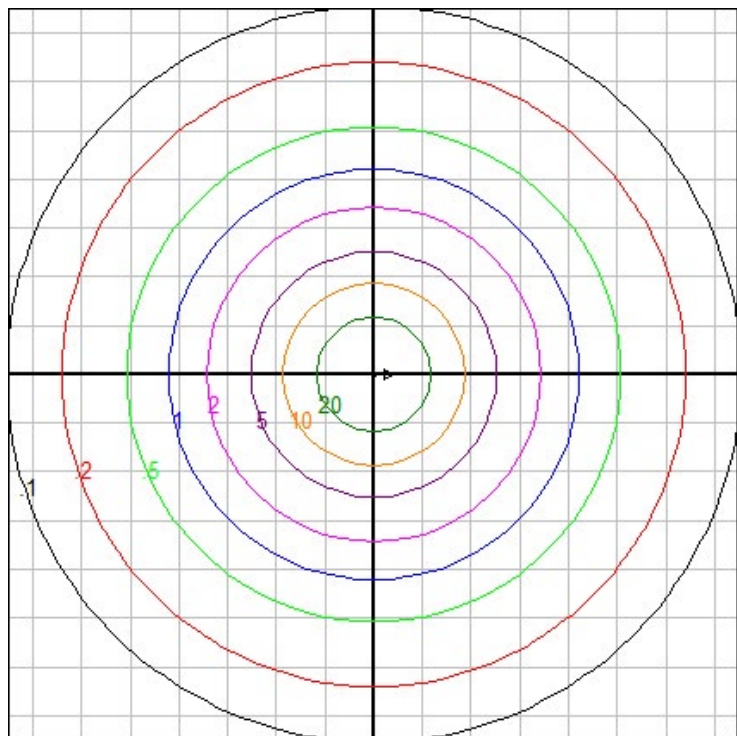


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10267
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	4.30 m (Diameter)
Luminous Height	0.00 m

Zonal Lumen Summary

Zone	Lumens
0-10	358.75
10-20	1020.42
20-30	1533.4
30-40	1830.22
40-50	1872.48
50-60	1656.51
60-70	1219.01
70-80	640.88
80-90	124.78
90-100	2.96
100-110	1.00
110-120	0.58
120-130	0.59
130-140	1.15
140-150	3.04
150-160	0.89
160-170	0.00
170-180	0.00



Mounting Height: 10 ft.

Grid Spacing: 5 ft.

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