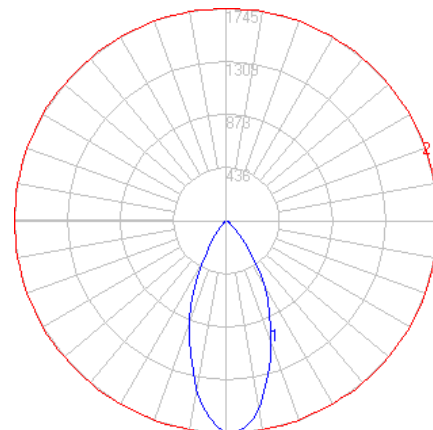


BEGA

File: 33242K4_BEGA_IES.ies

TEST: BE_33242K4
TEST LAB: BEGA
DATE: 2/4/2013
LUMINAIRE: 33 242K4
LAMP: 17.9W LED



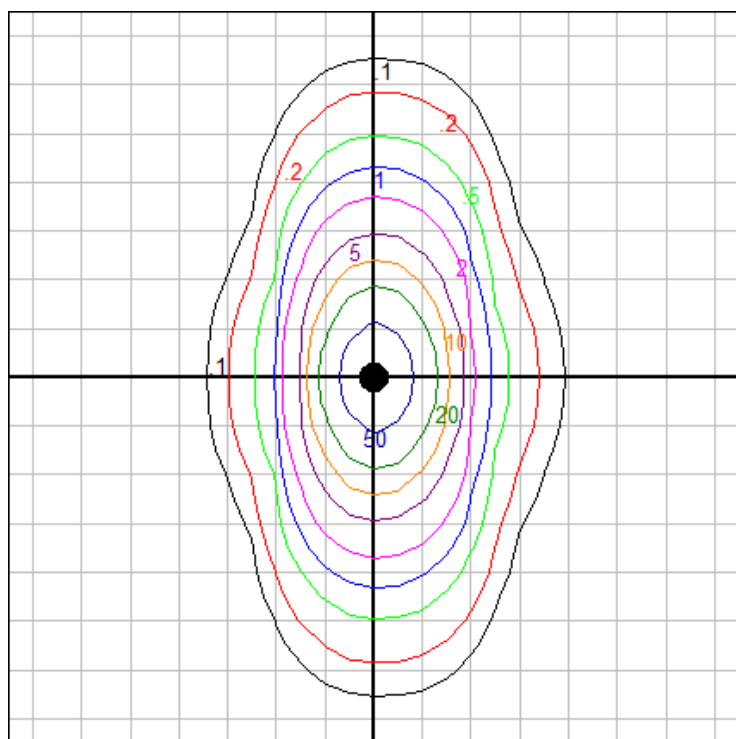
Characteristics

IES Classification	Type I
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1893
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	23
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	1745.055 (360H, 0V)
Max. Cd. (<90 Vert.)	1745.055 (360H, 0V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	3.901 (0.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	529.9	N.A.	28.0
FM (30-60)	455.2	N.A.	24.0
FH (60-80)	42.2	N.A.	2.2
FVH (80-90)	0.1	N.A.	0.0
BL (0-30)	477.6	N.A.	25.2
BM (30-60)	356.1	N.A.	18.8
BH (60-80)	31.7	N.A.	1.7
BVH (80-90)	0.1	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1892.9	N.A.	100.0

BUG Rating B1-U0-G0

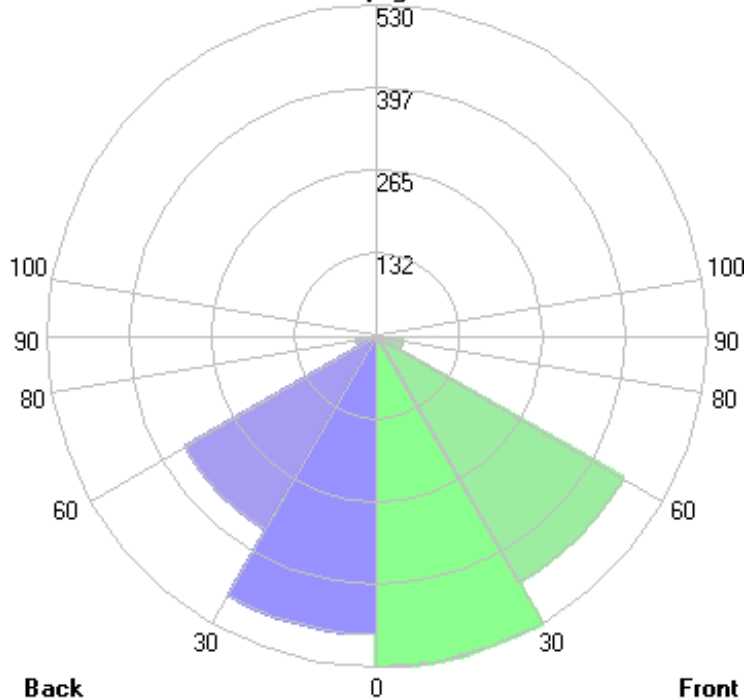


Mounting Height: 4 ft.

Grid Spacing: 2 ft.

Luminaire Lumens

Uplight



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

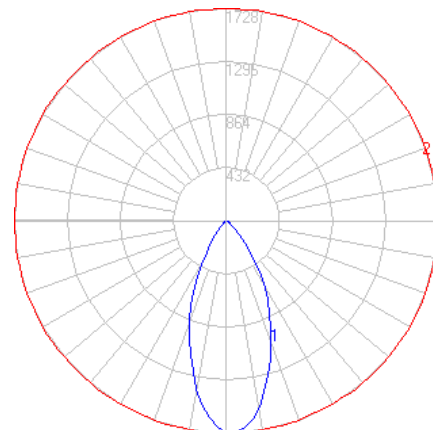
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BEGA

File: 33242K35_BEGA_IES.ies

TEST: BE_33242K4
TEST LAB: BEGA
DATE: 2/4/2013
LUMINAIRE: 33 242K35
LAMP: 17.9W LED



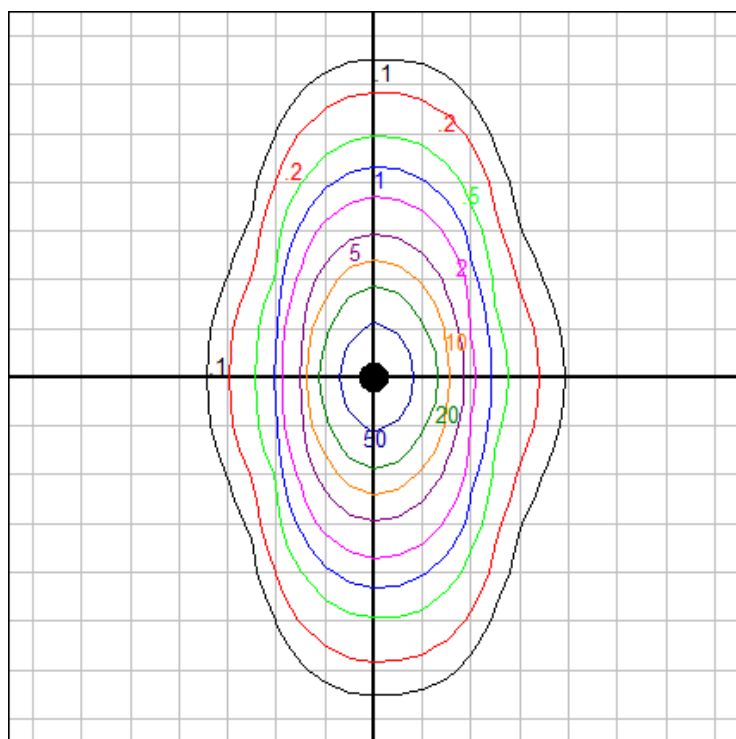
Characteristics

IES Classification	Type I
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1874
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	23
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	1727.604 (360H, 0V)
Max. Cd. (<90 Vert.)	1727.604 (360H, 0V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	3.862 (0.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	524.6	N.A.	28.0
FM (30-60)	450.6	N.A.	24.0
FH (60-80)	41.8	N.A.	2.2
FVH (80-90)	0.1	N.A.	0.0
BL (0-30)	472.8	N.A.	25.2
BM (30-60)	352.5	N.A.	18.8
BH (60-80)	31.4	N.A.	1.7
BVH (80-90)	0.1	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1873.9	N.A.	100.0

BUG Rating B1-U0-G0

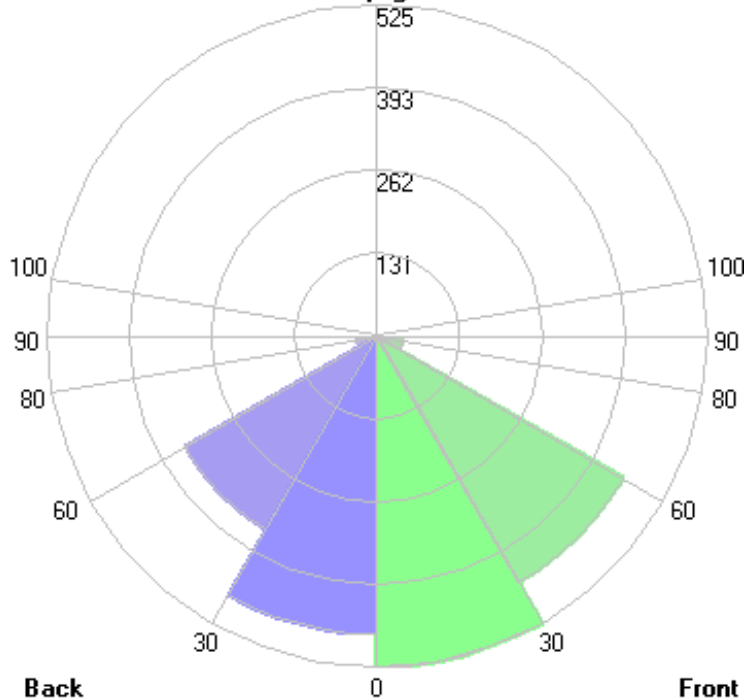


Mounting Height: 4 ft.

Grid Spacing: 2 ft.

Luminaire Lumens

Uplight



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

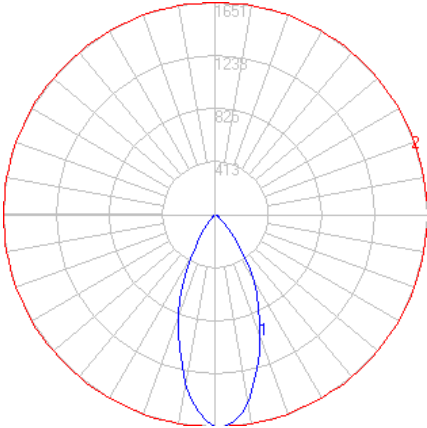
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File: 33242K3_BEGA_IES.ies

TEST: BE_33242K4
TEST LAB: BEGA
DATE: 2/4/2013
LUMINAIRE: 33 242K3
LAMP: 17.9W LED



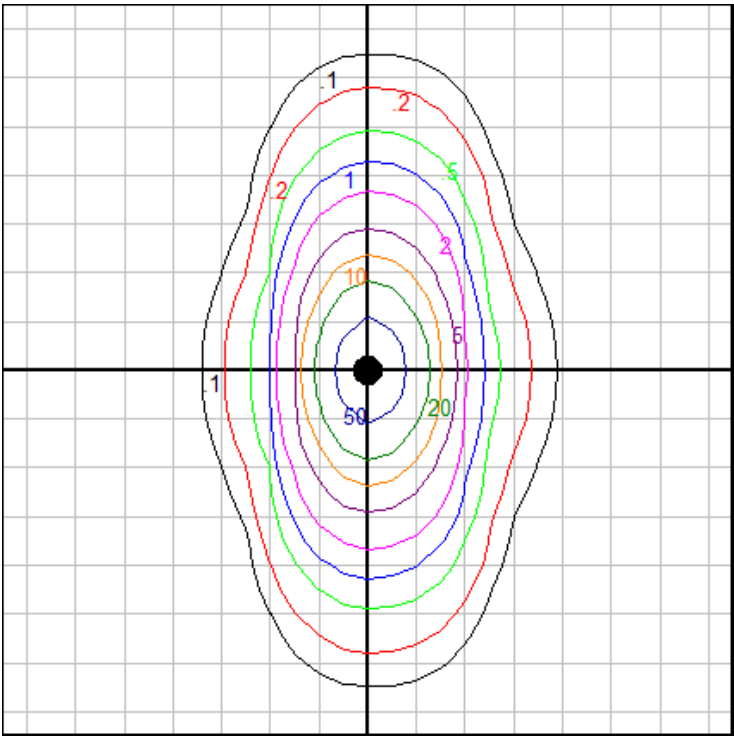
Characteristics

IES Classification	Type I
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1791
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	23
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	1650.822 (360H, 0V)
Max. Cd. (<90 Vert.)	1650.822 (360H, 0V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	3.69 (0.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	501.3	N.A.	28.0
FM (30-60)	430.6	N.A.	24.0
FH (60-80)	40.0	N.A.	2.2
FVH (80-90)	0.1	N.A.	0.0
BL (0-30)	451.8	N.A.	25.2
BM (30-60)	336.9	N.A.	18.8
BH (60-80)	30.0	N.A.	1.7
BVH (80-90)	0.1	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1790.8	N.A.	100.0

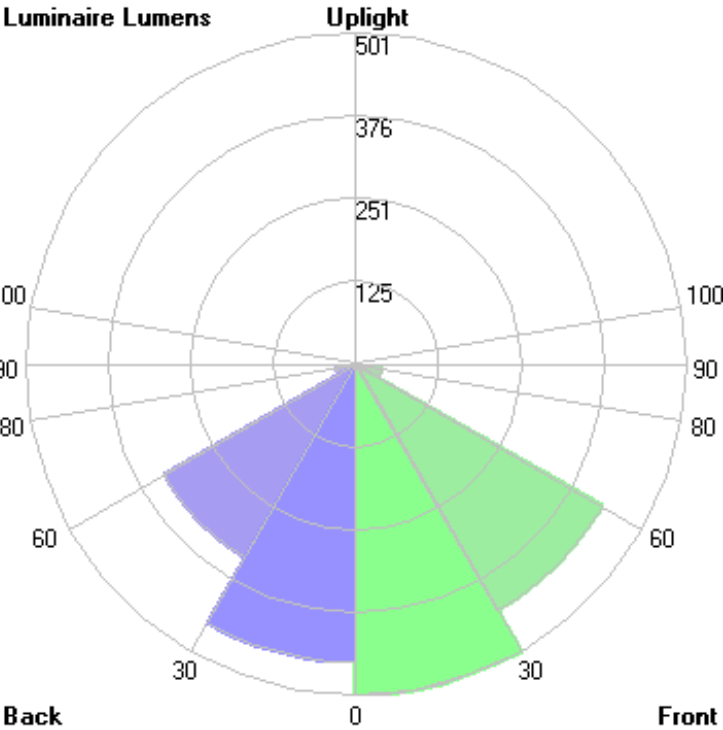
BUG Rating B1-U0-G0



Mounting Height: 4 ft.

Grid Spacing: 2 ft.

Luminaire Lumens



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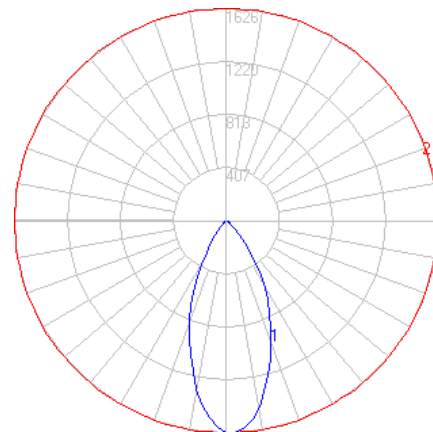
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BEGA

File: 33242K27_BEGA_IES.ies

TEST: BE_33242K4
TEST LAB: BEGA
DATE: 2/4/2013
LUMINAIRE: 33 242K27
LAMP: 17.9W LED



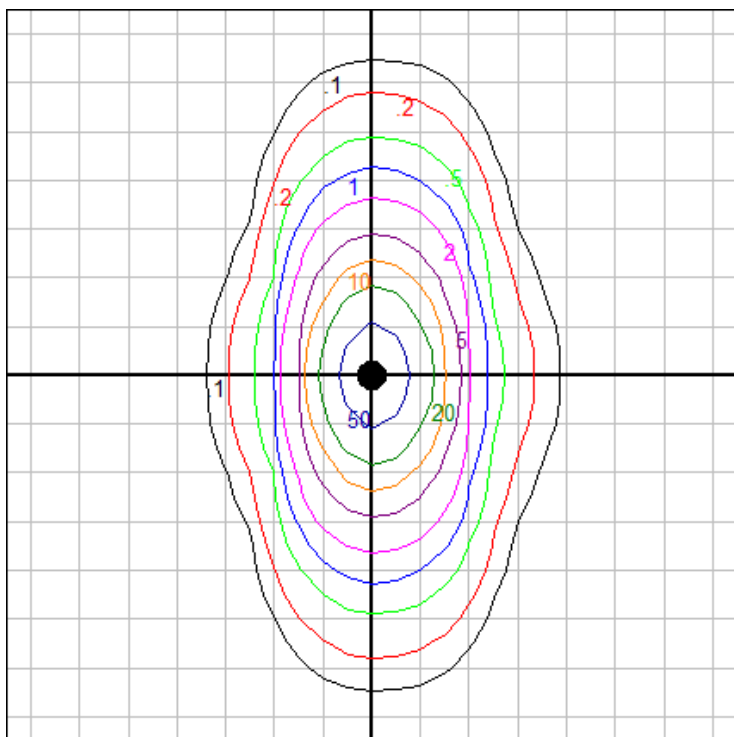
Characteristics

IES Classification	Type I
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1764
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	23
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	1626.391 (360H, 0V)
Max. Cd. (<90 Vert.)	1626.391 (360H, 0V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	3.636 (0.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

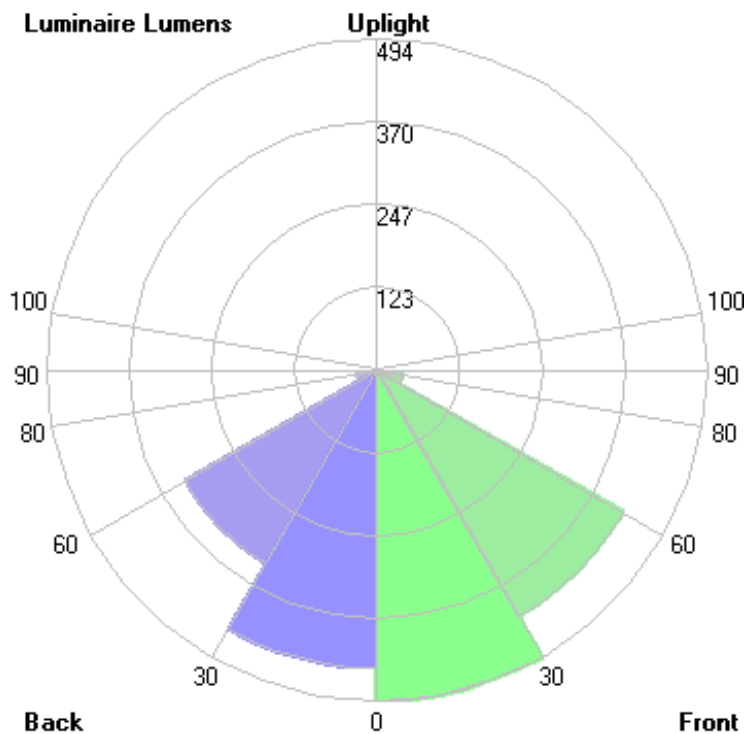
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	593.9	N.A.	28.0
FM (30-60)	424.2	N.A.	24.0
FH (60-80)	39.4	N.A.	2.2
FVH (80-90)	0.1	N.A.	0.0
BL (0-30)	445.1	N.A.	25.2
BM (30-60)	331.9	N.A.	18.8
BH (60-80)	29.5	N.A.	1.7
BVH (80-90)	0.1	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1764.2	N.A.	100.0

BUG Rating B1-U0-G0



Luminaire Lumens



Mounting Height: 4 ft.

Grid Spacing: 2 ft.

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