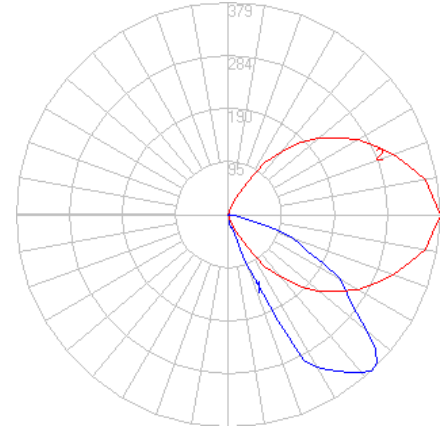


BEGA

File: 84414K4_BEGA_IES.ies

TEST: BE_84414K4
TEST LAB: BEGA
DATE: 03/31/2017
LUMINAIRE: 84 414K4
LAMP: 2.9W LED



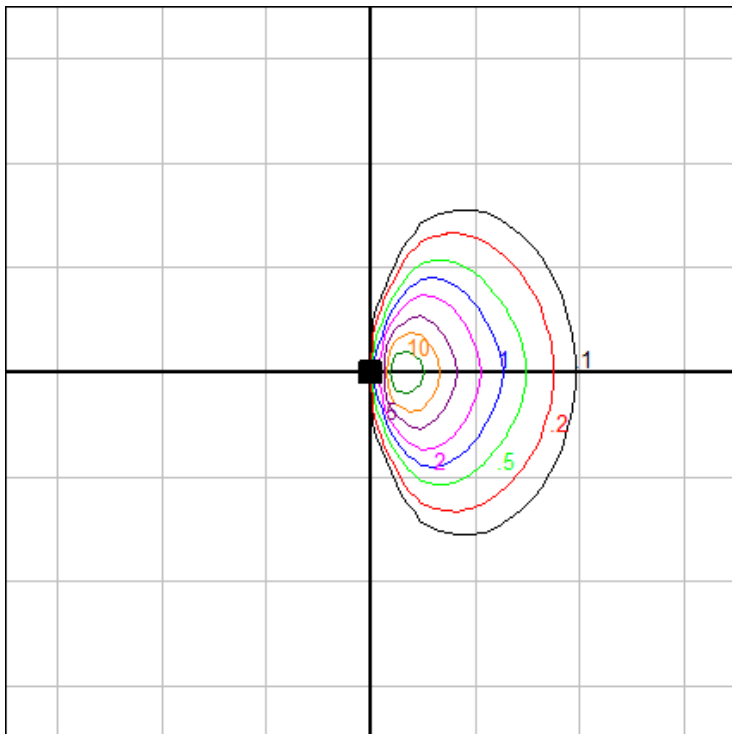
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	274
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	379.2 (0H, 42.5V)
Max. Cd. (<90 Vert.)	379.2 (0H, 42.5V)
Max. Cd. (At 90 Deg. Vert.)	1.4 (0.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	19.8 (7.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

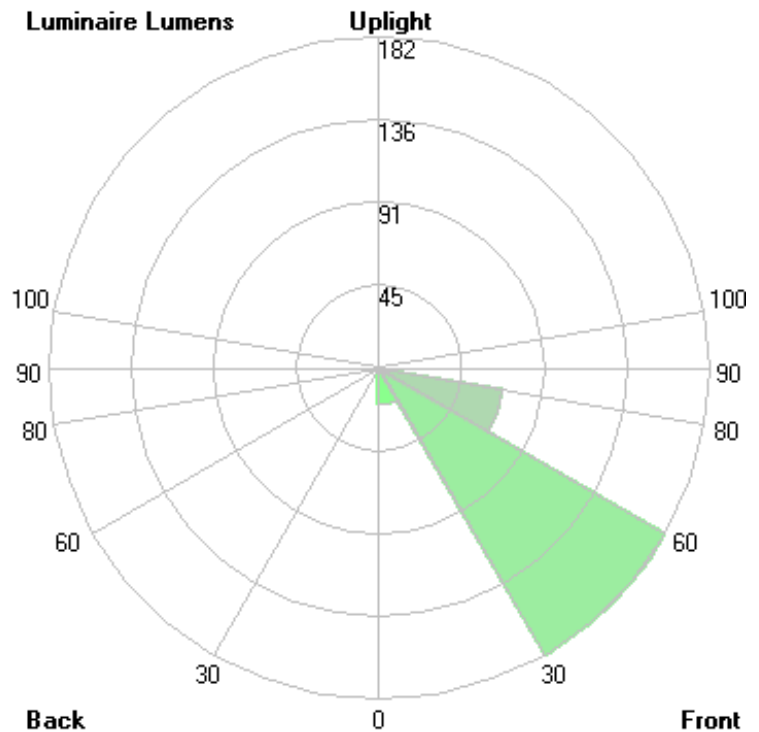
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	20.2	N.A.	7.4
FM (30-60)	181.8	N.A.	66.4
FH (60-80)	69.1	N.A.	25.2
FVH (80-90)	2.4	N.A.	0.9
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	N.A.	0.0
BH (60-80)	0.0	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	0.3	N.A.	0.1
UH (100-180)	0.1	N.A.	0.0
Total	273.9	N.A.	100.0

BUG Rating B0-U1-G1



Grid Spacing: 5 ft.



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

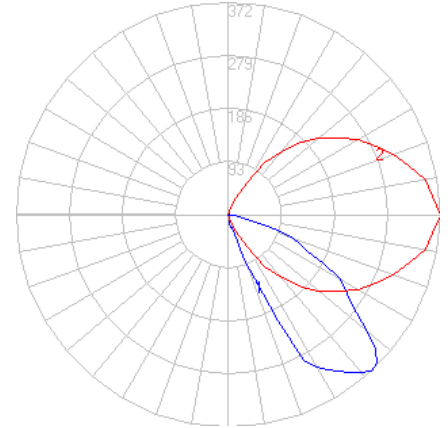
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BEGA

File: 84414K35_BEGA_IES.ies

TEST: BE_84414K4
TEST LAB: BEGA
DATE: 03/31/2017
LUMINAIRE: 84 414K35
LAMP: 2.9W LED



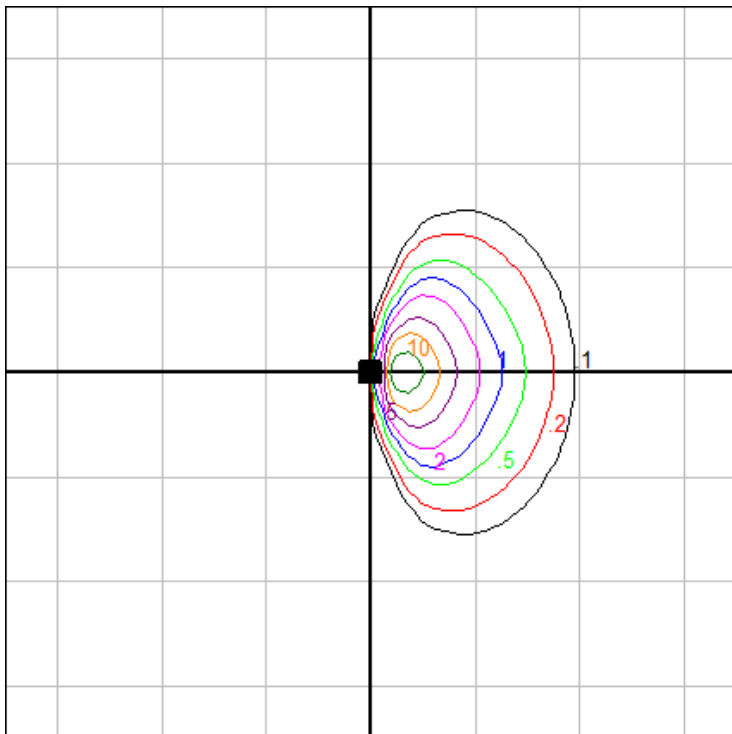
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	268
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	371.616 (0H, 42.5V)
Max. Cd. (<90 Vert.)	371.616 (0H, 42.5V)
Max. Cd. (At 90 Deg. Vert.)	1.372 (0.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	19.404 (7.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

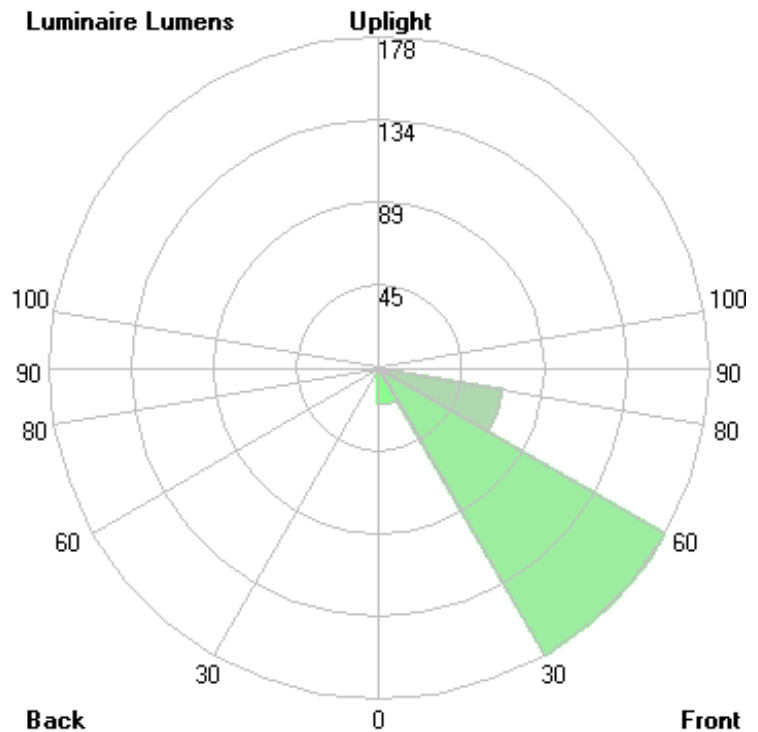
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	19.8	N.A.	7.4
FM (30-60)	178.2	N.A.	66.4
FH (60-80)	67.7	N.A.	25.2
FVH (80-90)	2.3	N.A.	0.9
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	N.A.	0.0
BH (60-80)	0.0	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	0.3	N.A.	0.1
UH (100-180)	0.1	N.A.	0.0
Total	268.4	N.A.	100.0

BUG Rating B0-U1-G1



Grid Spacing: 5 ft.



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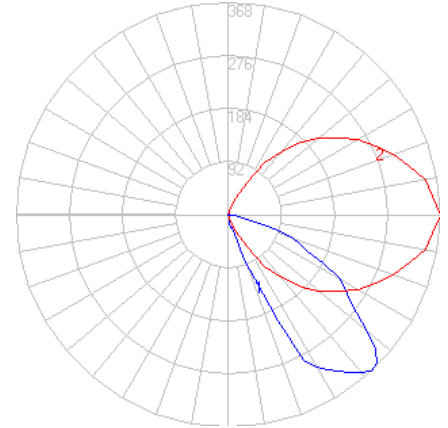
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BEGA

File: 84414K3_BEGA_IES.ies

TEST: BE_84414K4
TEST LAB: BEGA
DATE: 03/31/2017
LUMINAIRE: 84 414K3
LAMP: 2.9W LED



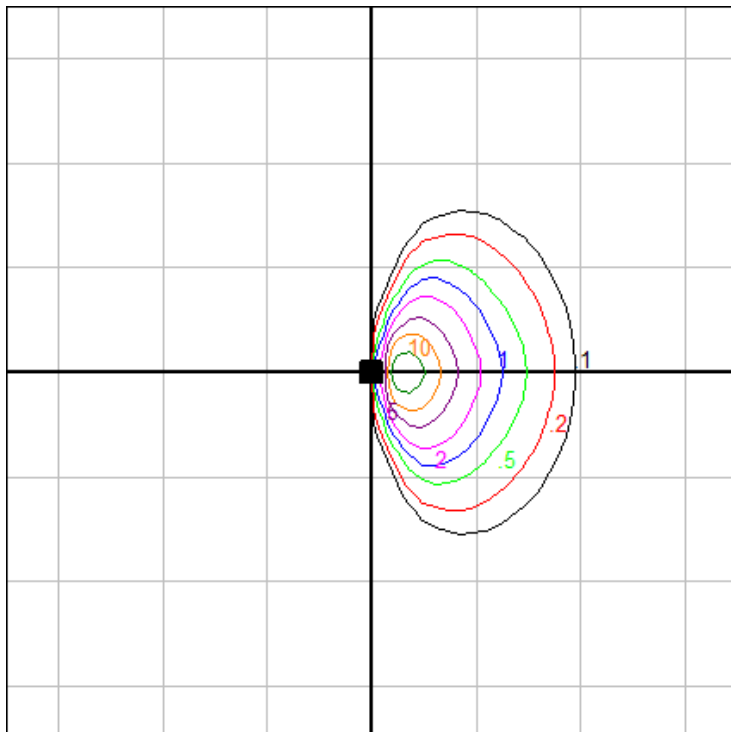
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	266
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	367.824 (0H, 42.5V)
Max. Cd. (<90 Vert.)	367.824 (0H, 42.5V)
Max. Cd. (At 90 Deg. Vert.)	1.358 (0.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	19.206 (7.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

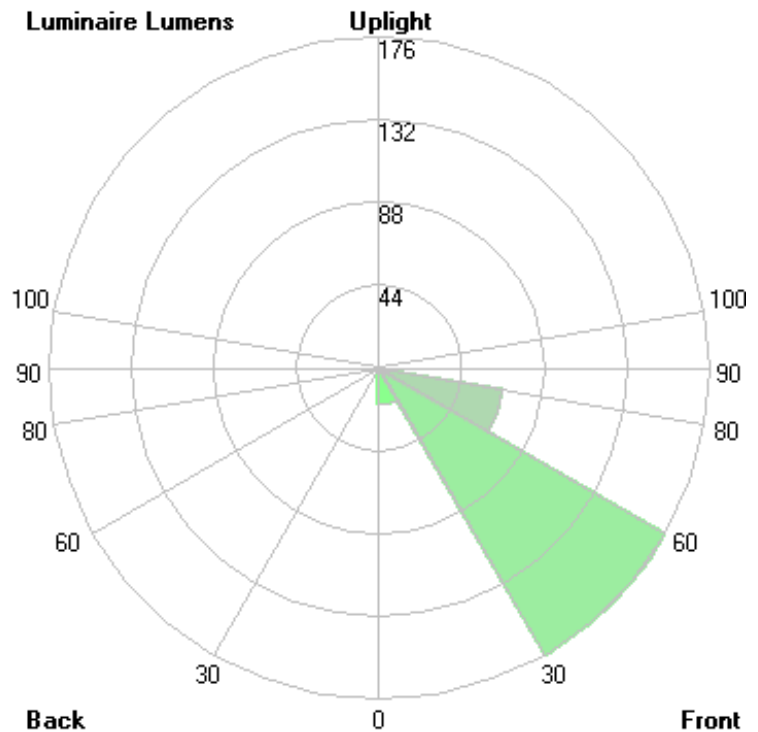
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	19.6	N.A.	7.4
FM (30-60)	176.4	N.A.	66.4
FH (60-80)	67.0	N.A.	25.2
FVH (80-90)	2.3	N.A.	0.9
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	N.A.	0.0
BH (60-80)	0.0	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	0.2	N.A.	0.1
UH (100-180)	0.1	N.A.	0.0
Total	265.6	N.A.	100.0

BUG Rating B0-U1-G1



Grid Spacing: 5 ft.



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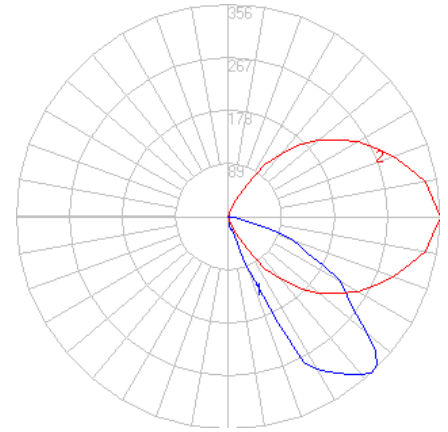
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BEGA

File: 84414K27_BEGA_IES.ies

TEST: BE_84414K4
TEST LAB: BEGA
DATE: 03/31/2017
LUMINAIRE: 84 414K27
LAMP: 2.9W LED



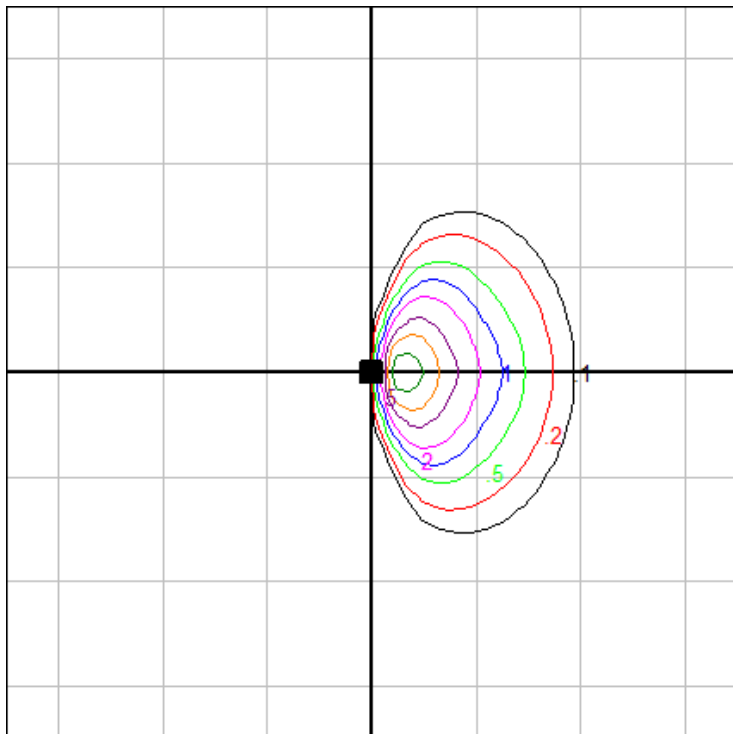
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	257
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	356.448 (0H, 42.5V)
Max. Cd. (<90 Vert.)	356.448 (0H, 42.5V)
Max. Cd. (At 90 Deg. Vert.)	1.316 (0.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	18.612 (7.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

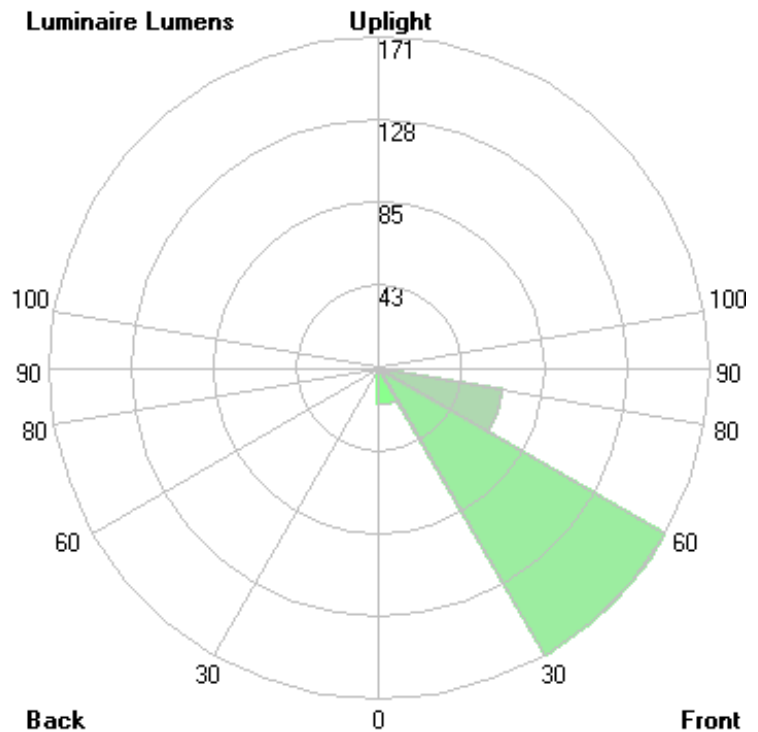
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	19.0	N.A.	7.4
FM (30-60)	170.9	N.A.	66.4
FH (60-80)	64.9	N.A.	25.2
FVH (80-90)	2.2	N.A.	0.9
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	N.A.	0.0
BH (60-80)	0.0	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	0.2	N.A.	0.1
UH (100-180)	0.1	N.A.	0.0
Total	257.3	N.A.	100.0

BUG Rating B0-U1-G1



Grid Spacing: 5 ft.



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