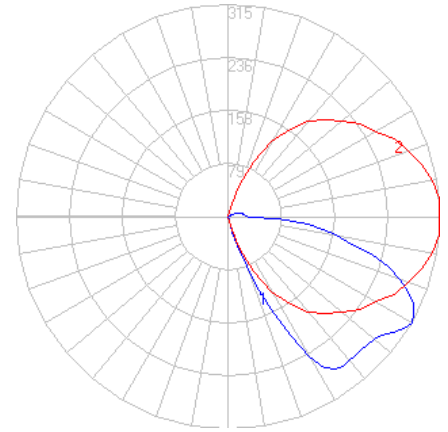


BEGA

File: 84412K4_BEGA_IES.ies

TEST: BE_84412K4
TEST LAB: BEGA
DATE: 03/31/2017
LUMINAIRE: 84 412K4
LAMP: 2.9W LED



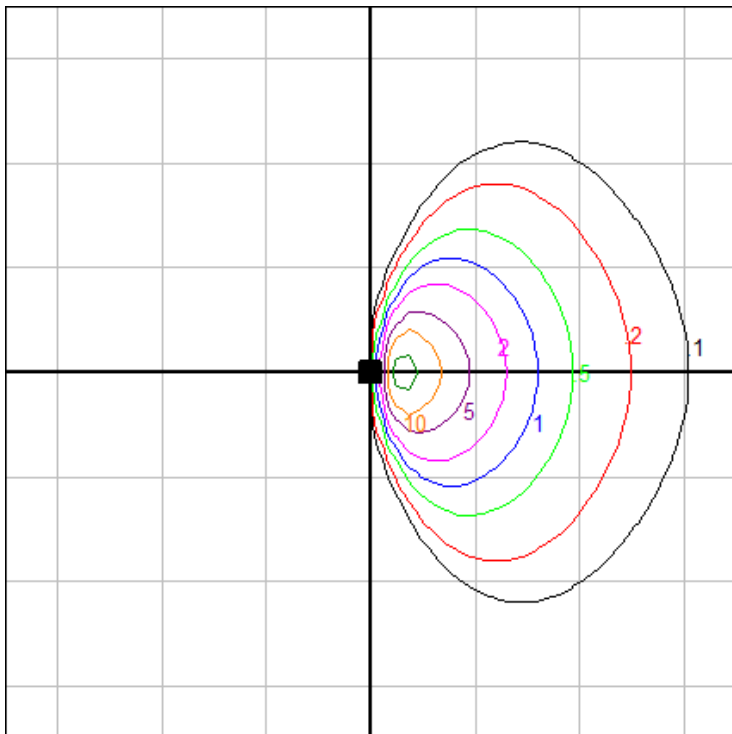
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	410
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Max. Cd.	315.1 (5H, 60V)
Max. Cd. (<90 Vert.)	315.1 (5H, 60V)
Max. Cd. (At 90 Deg. Vert.)	34.8 (8.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	162.1 (39.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

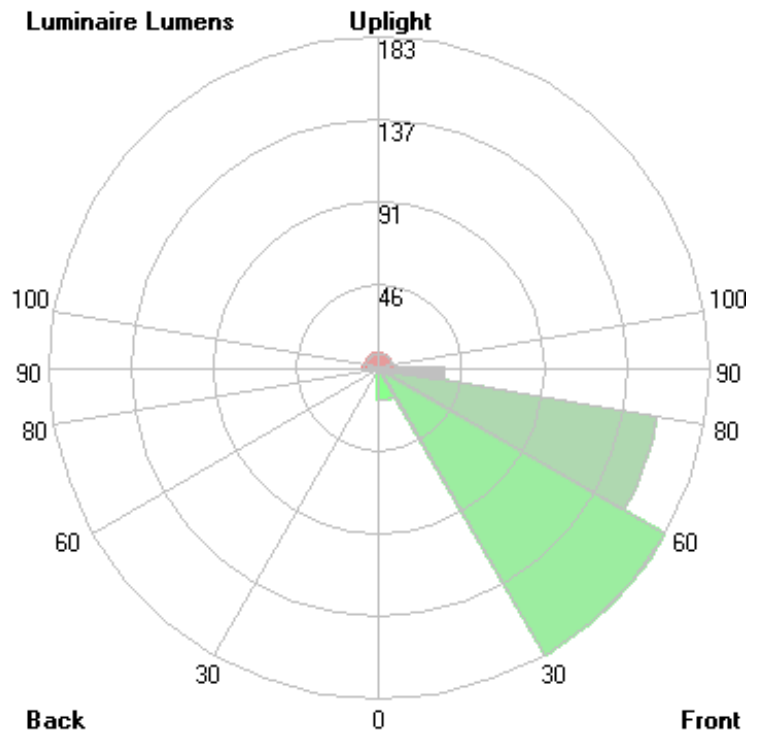
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	17.9	N.A.	4.4
FM (30-60)	183.0	N.A.	44.7
FH (60-80)	156.4	N.A.	38.2
FVH (80-90)	36.1	N.A.	8.8
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	8.7	N.A.	2.1
UH (100-180)	7.7	N.A.	1.9
Total	409.8	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.

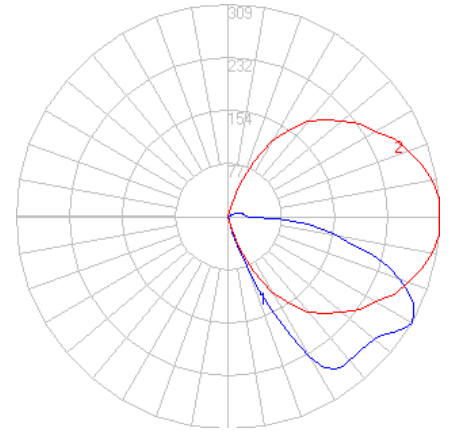
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BEGA

File: 84412K35_BEGA_IES.ies

TEST: BE_84412K4
TEST LAB: BEGA
DATE: 03/31/2017
LUMINAIRE: 84 412K35
LAMP: 2.9W LED



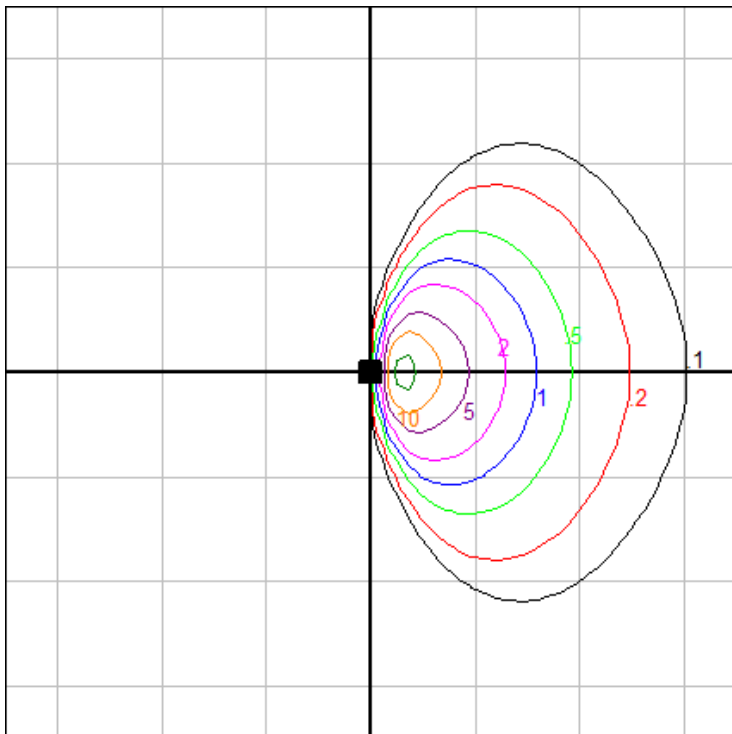
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	402
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Max. Cd.	308.798 (5H, 60V)
Max. Cd. (<90 Vert.)	308.798 (5H, 60V)
Max. Cd. (At 90 Deg. Vert.)	34.104 (8.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	158.858 (39.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

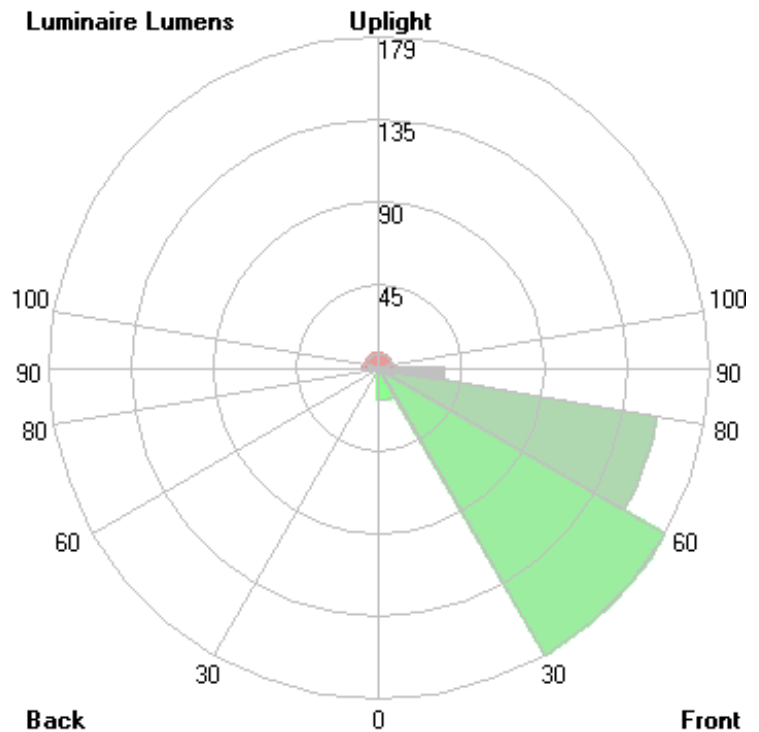
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	17.6	N.A.	4.4
FM (30-60)	179.3	N.A.	44.7
FH (60-80)	153.3	N.A.	38.2
FVH (80-90)	35.4	N.A.	8.8
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	8.5	N.A.	2.1
UH (100-180)	7.5	N.A.	1.9
Total	401.6	N.A.	100.0

BUG Rating B0-U1-G1



Grid Spacing: 5 ft.



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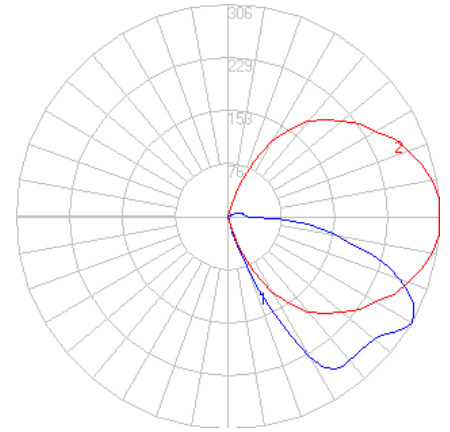
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BEGA

File: 84412K3_BEGA_IES.ies

TEST: BE_84412K4
TEST LAB: BEGA
DATE: 03/31/2017
LUMINAIRE: 84 412K3
LAMP: 2.9W LED



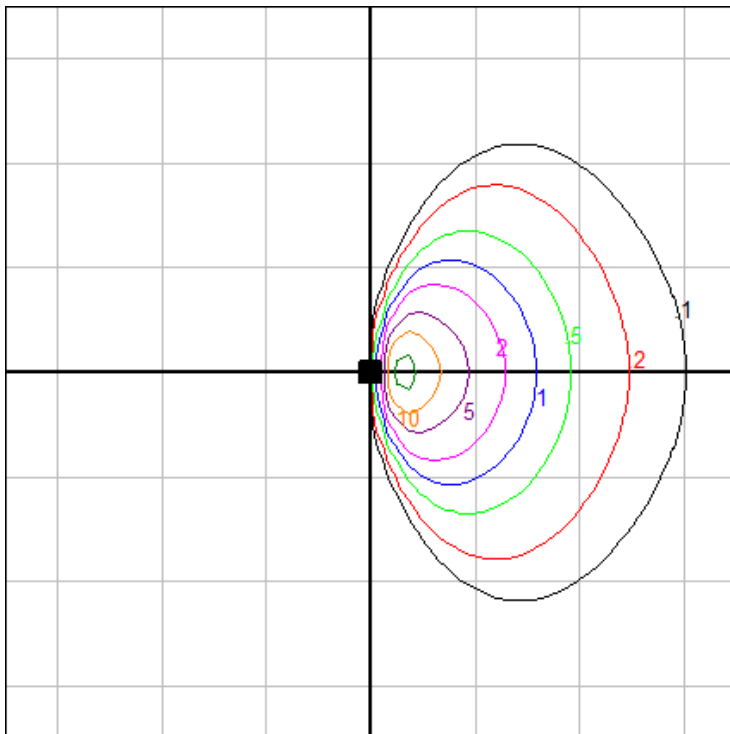
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	398
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Max. Cd.	305.647 (5H, 60V)
Max. Cd. (<90 Vert.)	305.647 (5H, 60V)
Max. Cd. (At 90 Deg. Vert.)	33.756 (8.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	157.237 (39.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

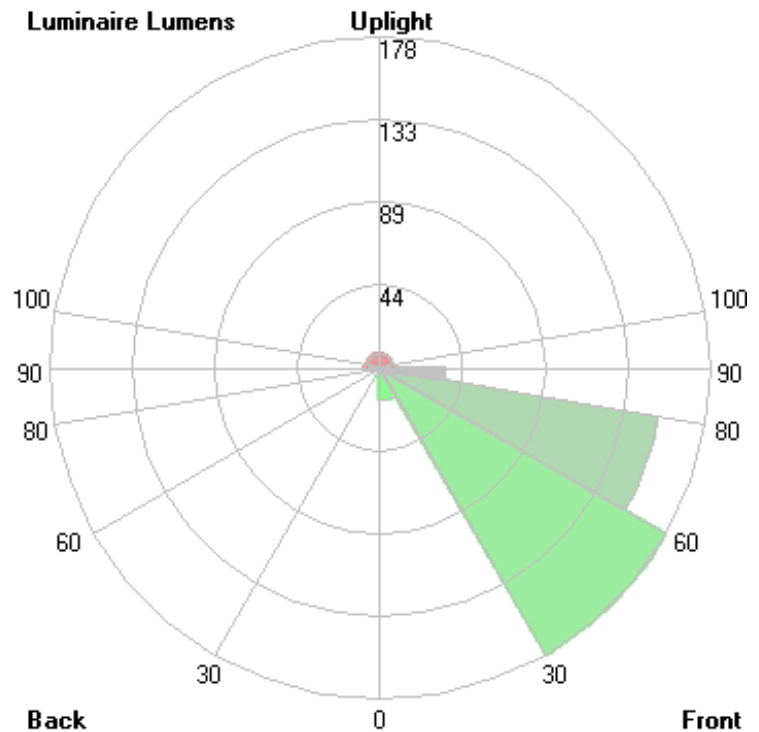
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	17.4	N.A.	4.4
FM (30-60)	177.5	N.A.	44.7
FH (60-80)	151.7	N.A.	38.2
FVH (80-90)	35.0	N.A.	8.8
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	8.4	N.A.	2.1
UH (100-180)	7.4	N.A.	1.9
Total	397.4	N.A.	100.0

BUG Rating **B0-U1-G1**



Grid Spacing: 5 ft.

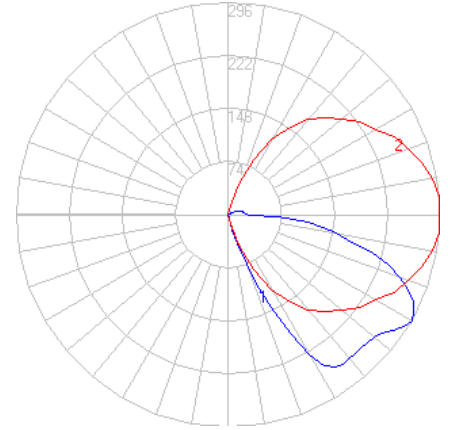


In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

BEGA

File: 84412K27_BEGA_IES.ies

TEST: BE_84412K4
TEST LAB: BEGA
DATE: 03/31/2017
LUMINAIRE: 84 412K27
LAMP: 2.9W LED



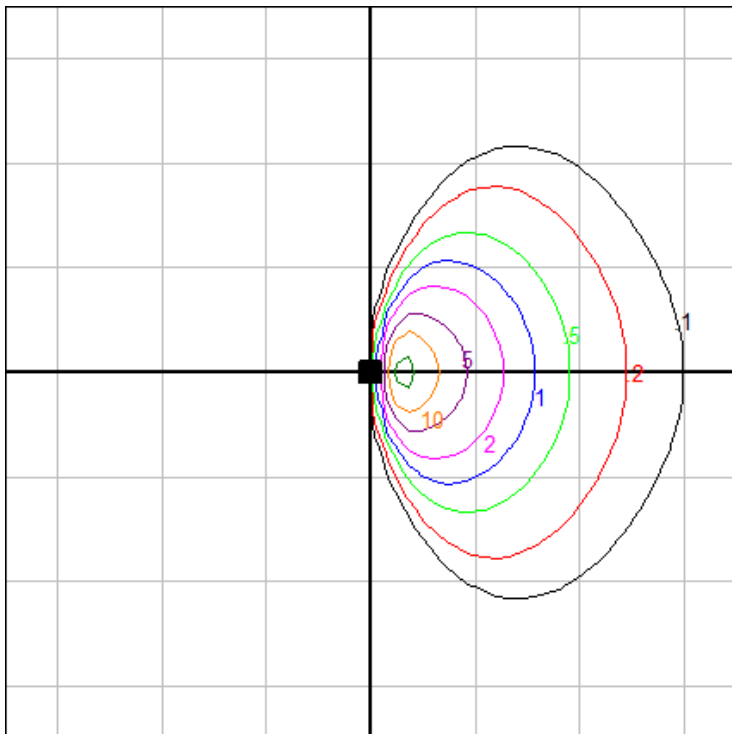
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	385
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Max. Cd.	296.194 (5H, 60V)
Max. Cd. (<90 Vert.)	296.194 (5H, 60V)
Max. Cd. (At 90 Deg. Vert.)	32.712 (8.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	152.374 (39.6%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

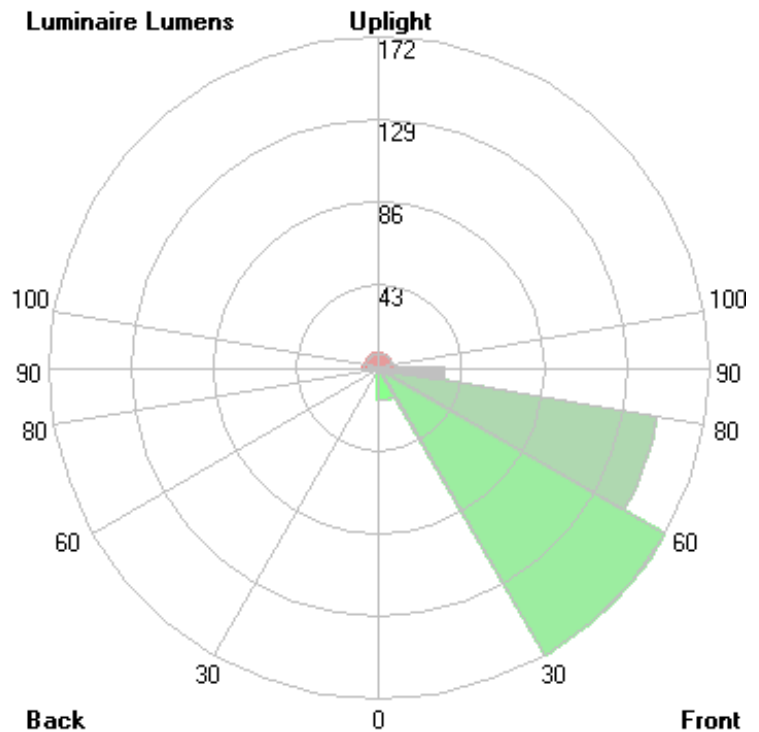
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	16.9	N.A.	4.4
FM (30-60)	172.0	N.A.	44.7
FH (60-80)	147.0	N.A.	38.2
FVH (80-90)	33.9	N.A.	8.8
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	8.2	N.A.	2.1
UH (100-180)	7.2	N.A.	1.9
Total	385.2	N.A.	100.0

BUG Rating B0-U1-G1



Grid Spacing: 5 ft.



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