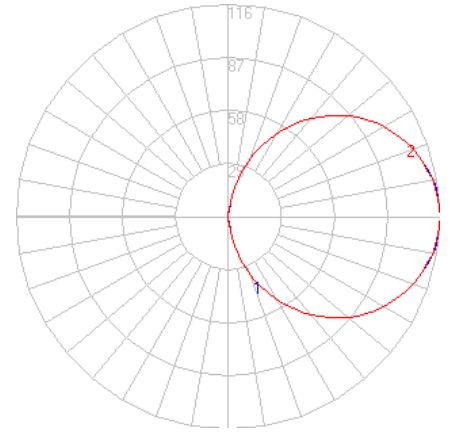


BEGA

File: 84410K4_BEGA_IES.ies

TEST: BE_84410K4
TEST LAB: BEGA
DATE: 03/01/2017
LUMINAIRE: 84 410K4
LAMP: 2.8W LED



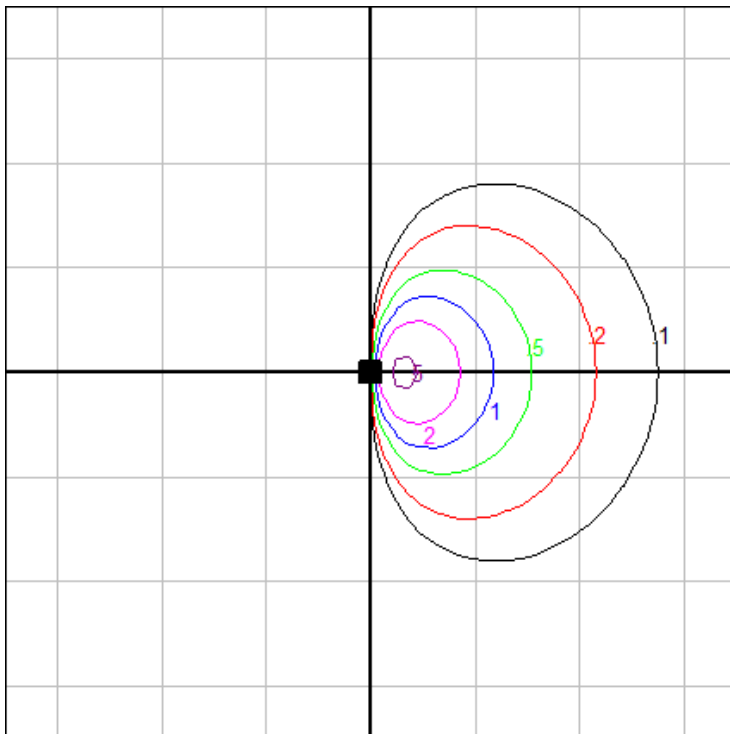
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	331
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	115.6 (360H, 90V)
Max. Cd. (<90 Vert.)	115.4 (360H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	115.6 (34.9%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	115.4 (34.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

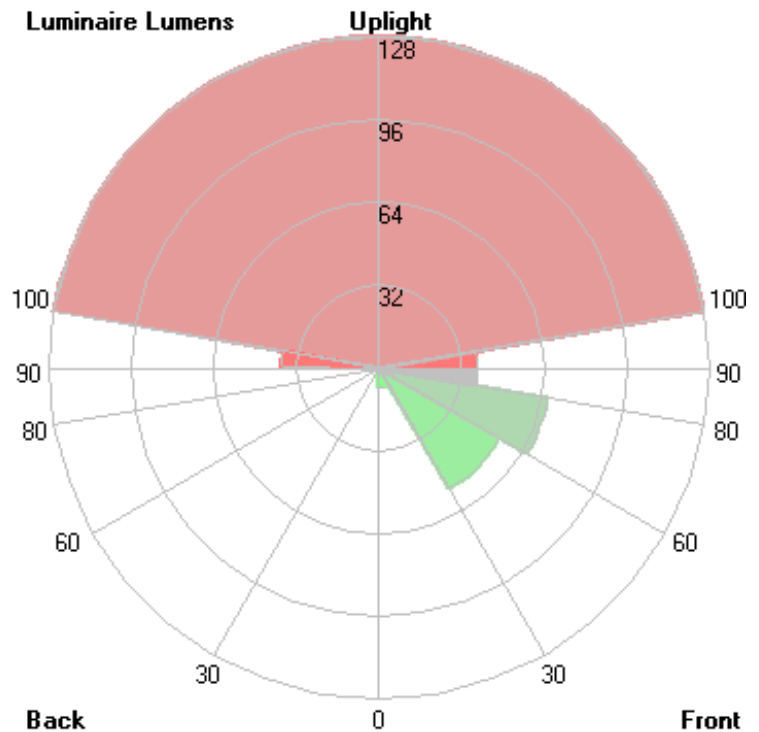
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	7.6	N.A.	2.3
FM (30-60)	54.0	N.A.	16.3
FH (60-80)	66.2	N.A.	20.0
FVH (80-90)	37.8	N.A.	11.4
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)	37.8	N.A.	11.4
UH (100-180)	127.7	N.A.	38.6
Total	331.1	N.A.	100.0

BUG Rating B0-U3-G1



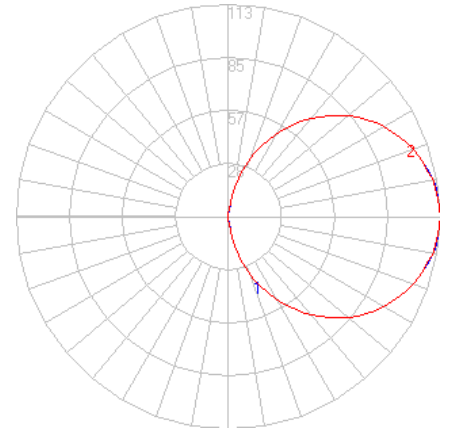
Grid Spacing: 5 ft.



BEGA

File: 84410K35_BEGA_IES.ies

TEST: BE_84410K4
TEST LAB: BEGA
DATE: 03/01/2017
LUMINAIRE: 84 410K35
LAMP: 2.8W LED



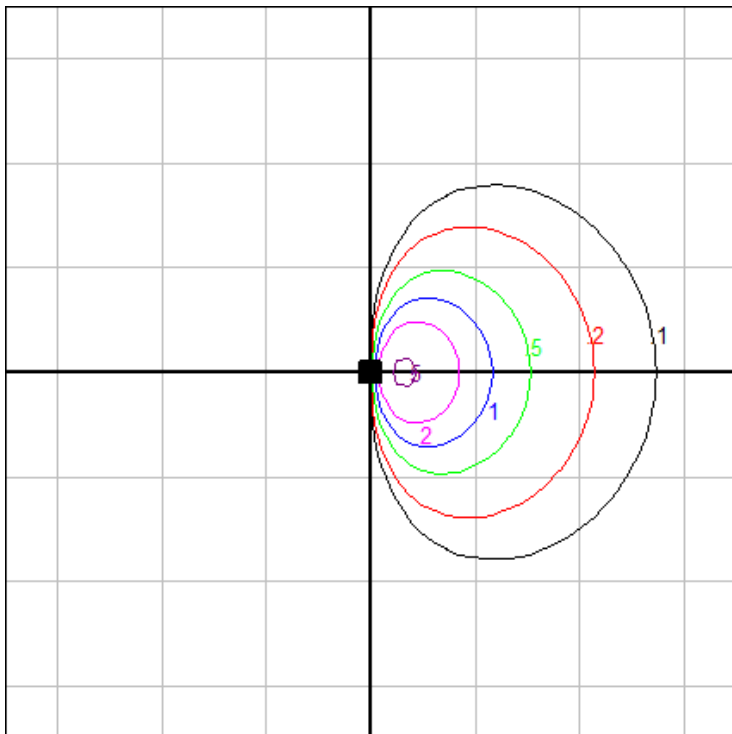
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	324
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	113.288 (360H, 90V)
Max. Cd. (<90 Vert.)	113.092 (360H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	113.288 (35.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	113.092 (34.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

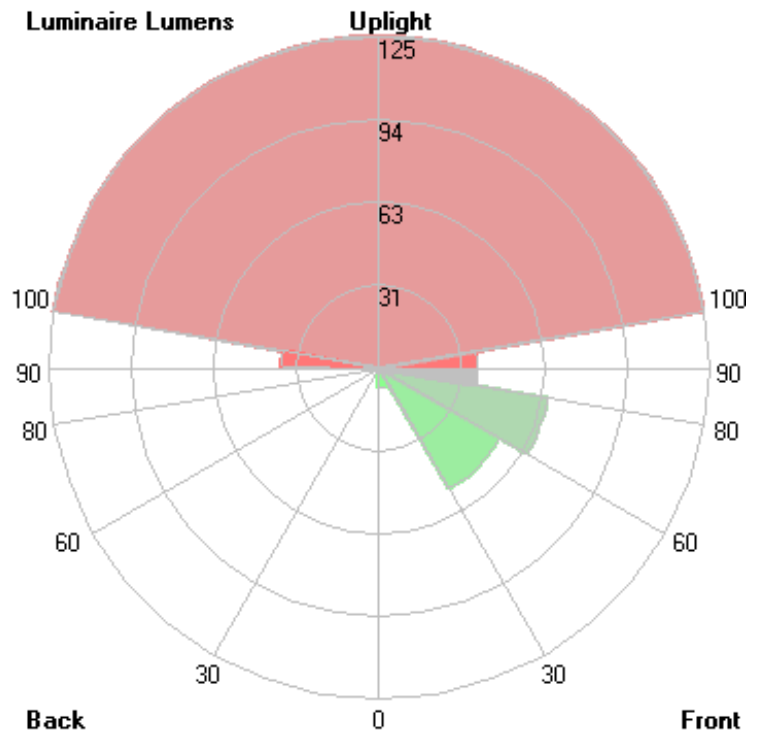
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	7.4	N.A.	2.3
FM\ (30-60)	52.9	N.A.	16.3
FH (60-80)	64.8	N.A.	20.0
FVH (80-90)	37.0	N.A.	11.4
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)	37.0	N.A.	11.4
UH (100-180)	125.1	N.A.	38.6
Total	324.2	N.A.	100.0

BUG Rating B0-U3-G1



Grid Spacing: 5 ft.



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

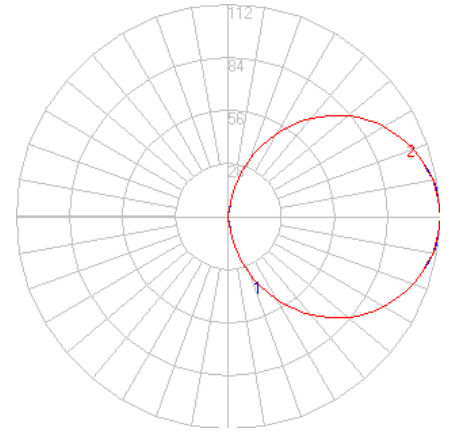
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BEGA

File: 84410K3_BEGA_IES.ies

TEST: BE_84410K4
TEST LAB: BEGA
DATE: 03/01/2017
LUMINAIRE: 84 410K3
LAMP: 2.8W LED



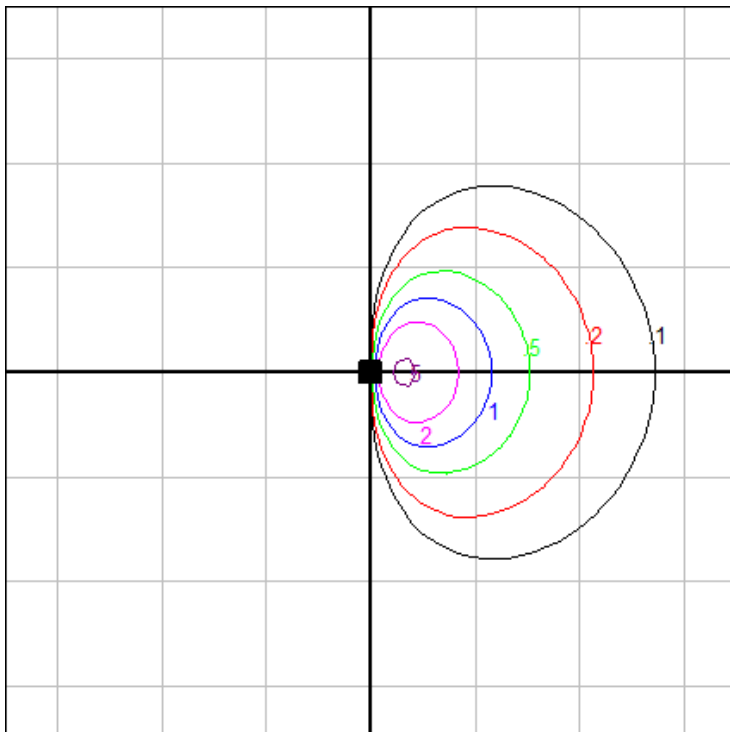
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	321
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	112.132 (360H, 90V)
Max. Cd. (<90 Vert.)	111.938 (360H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	112.132 (34.9%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	111.938 (34.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

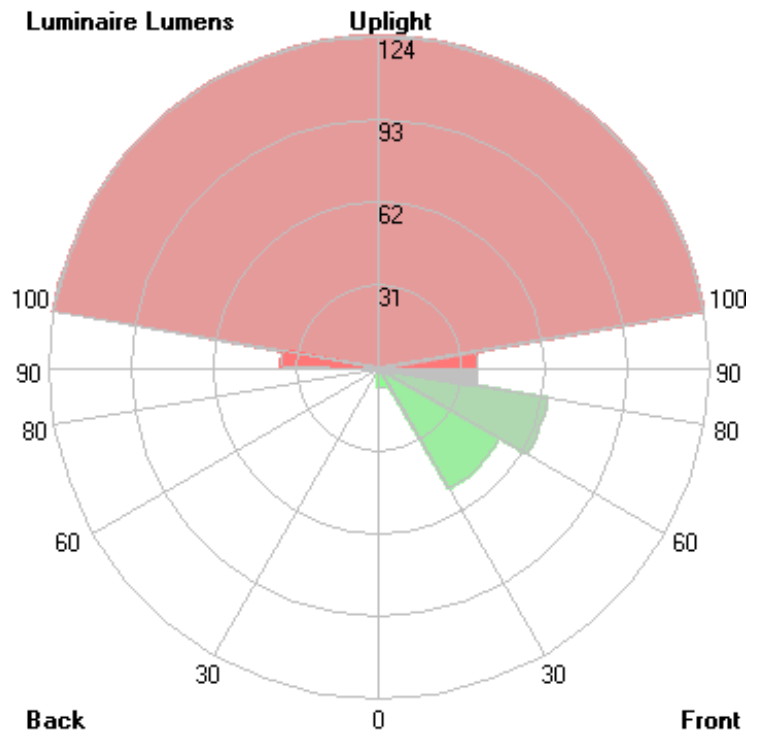
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	7.3	N.A.	2.3
FM (30-60)	52.4	N.A.	16.3
FH (60-80)	64.2	N.A.	20.0
FVH (80-90)	36.6	N.A.	11.4
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)	36.6	N.A.	11.4
UH (100-180)	123.9	N.A.	38.6
Total	321.0	N.A.	100.0

BUG Rating B0-U3-G1



Grid Spacing: 5 ft.



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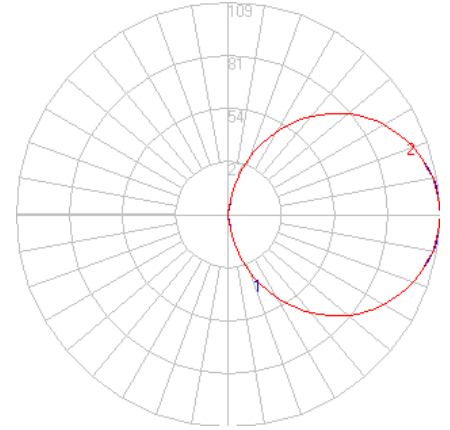
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BEGA

File: 84410K27_BEGA_IES.ies

TEST: BE_84410K4
TEST LAB: BEGA
DATE: 03/01/2017
LUMINAIRE: 84 410K27
LAMP: 2.8W LED



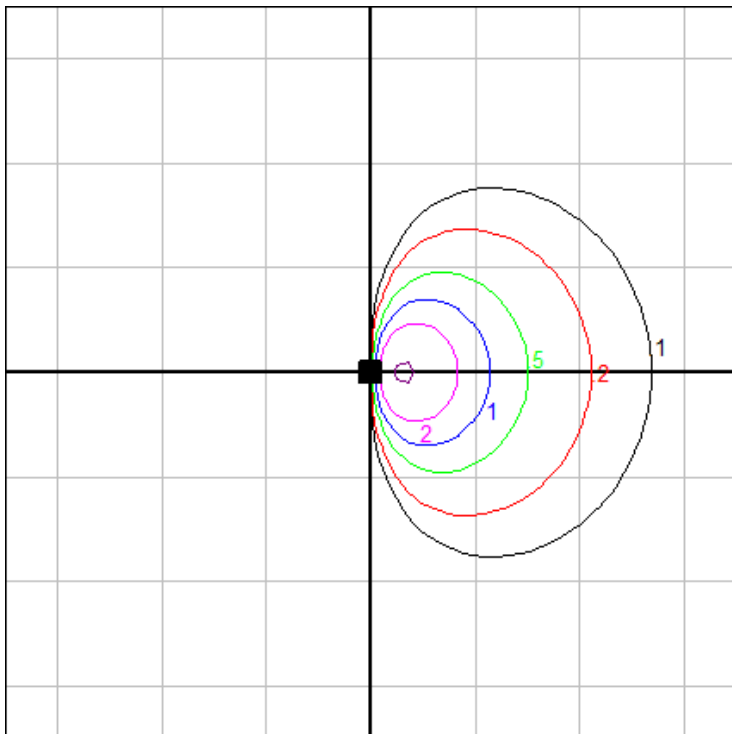
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	311
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	108.664 (360H, 90V)
Max. Cd. (<90 Vert.)	108.476 (360H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	108.664 (34.9%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	108.476 (34.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

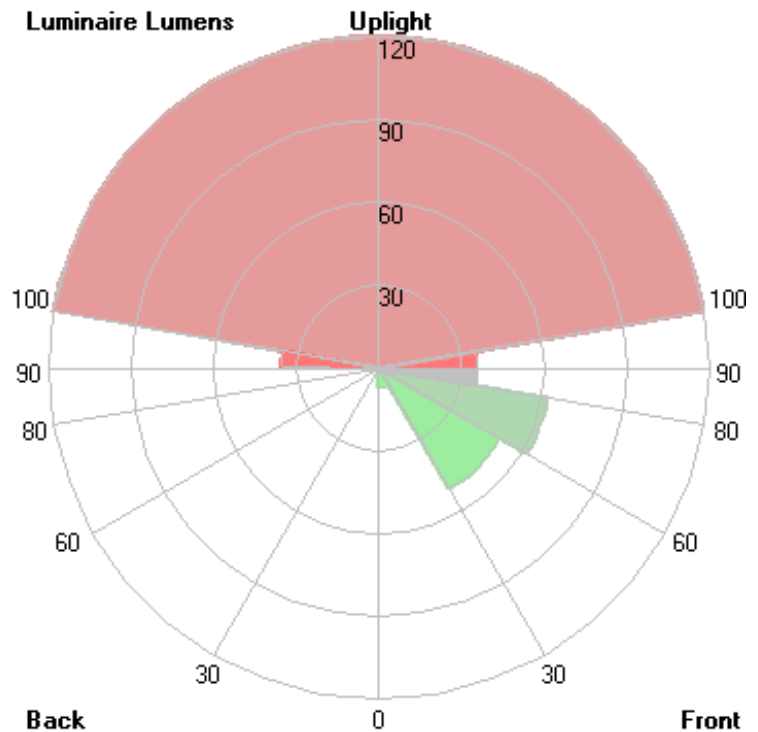
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	7.1	N.A.	2.3
FM (30-60)	50.7	N.A.	16.3
FH (60-80)	62.2	N.A.	20.0
FVH (80-90)	35.5	N.A.	11.4
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)	35.5	N.A.	11.4
UH (100-180)	120.0	N.A.	38.6
Total	311.0	N.A.	100.0

BUG Rating B0-U3-G1



Grid Spacing: 5 ft.



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