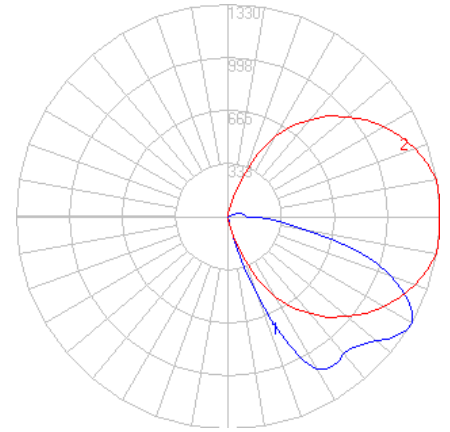


BEGA

File: 84413K4_BEGA_IES.ies

TEST: BE_84413K4
TEST LAB: BEGA
DATE: 03/01/2017
LUMINAIRE: 84 413K4
LAMP: 11.6W LED



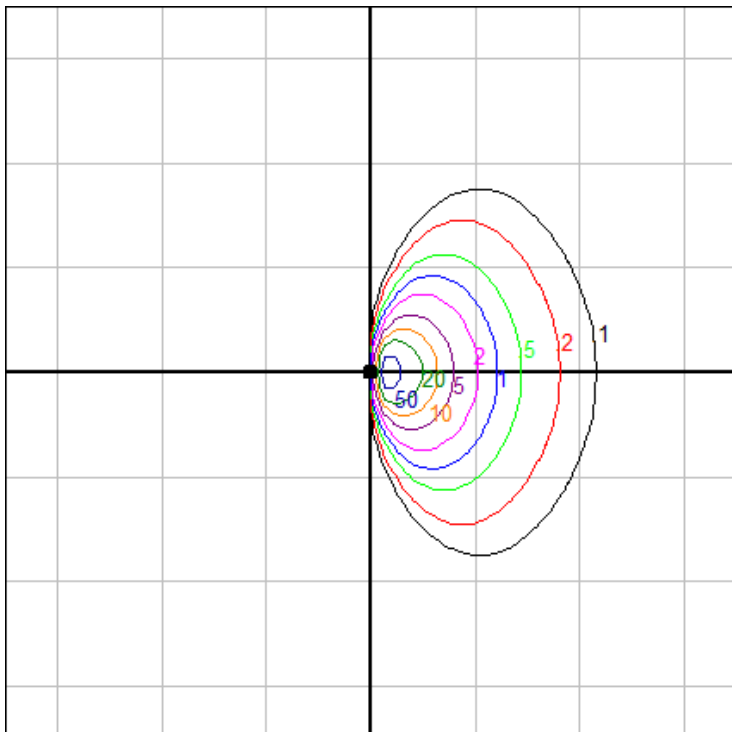
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1762
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Max. Cd.	1330.4 (5H, 60V)
Max. Cd. (<90 Vert.)	1330.4 (5H, 60V)
Max. Cd. (At 90 Deg. Vert.)	120.5 (6.8%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	513.1 (29.1%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

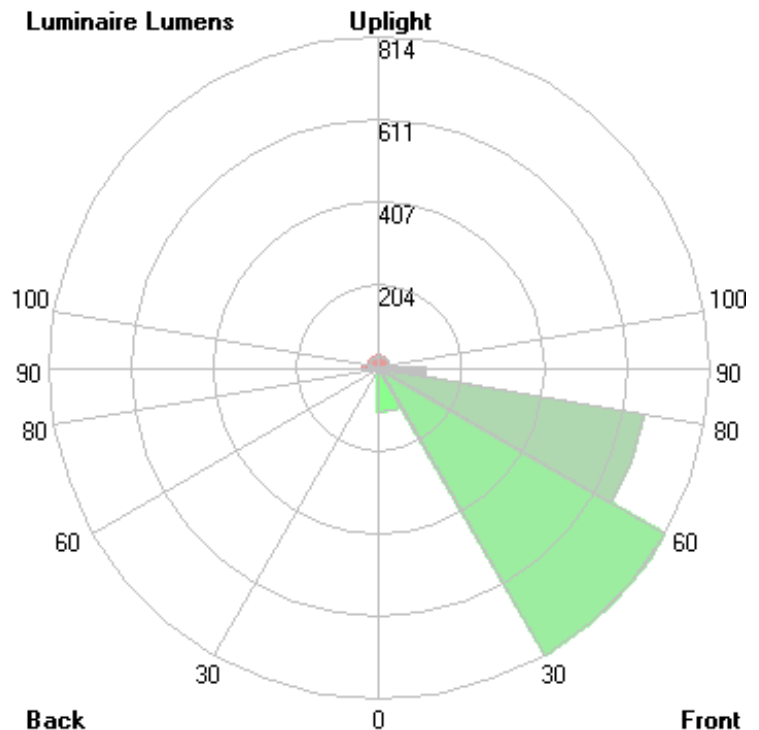
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	108.0	N.A.	6.1
FM (30-60)	814.3	N.A.	46.2
FH (60-80)	660.6	N.A.	37.5
FVH (80-90)	116.7	N.A.	6.6
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)	36.1	N.A.	2.0
UH (100-180)	26.7	N.A.	1.5
Total	1762.4	N.A.	100.0

BUG Rating B0-U2-G2



Grid Spacing: 10 ft.



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

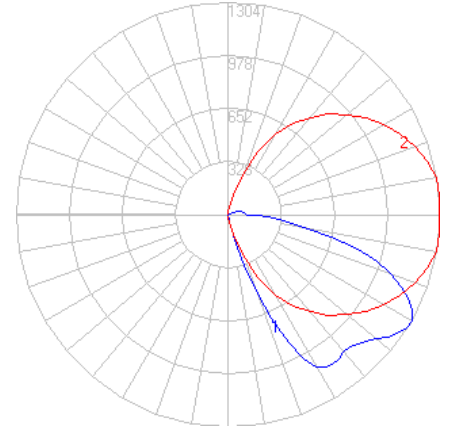
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BEGA

File: 84413K35_BEGA_IES.ies

TEST: BE_84413K4
TEST LAB: BEGA
DATE: 03/01/2017
LUMINAIRE: 84 413K35
LAMP: 11.6W LED



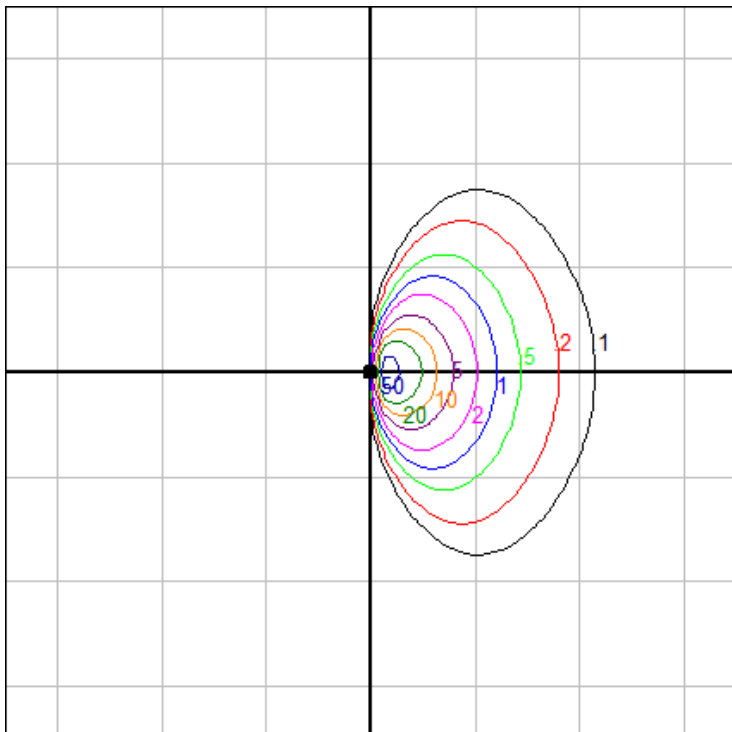
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1727
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Max. Cd.	1303.792 (5H, 60V)
Max. Cd. (<90 Vert.)	1303.792 (5H, 60V)
Max. Cd. (At 90 Deg. Vert.)	118.09 (6.8%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	502.838 (29.1%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

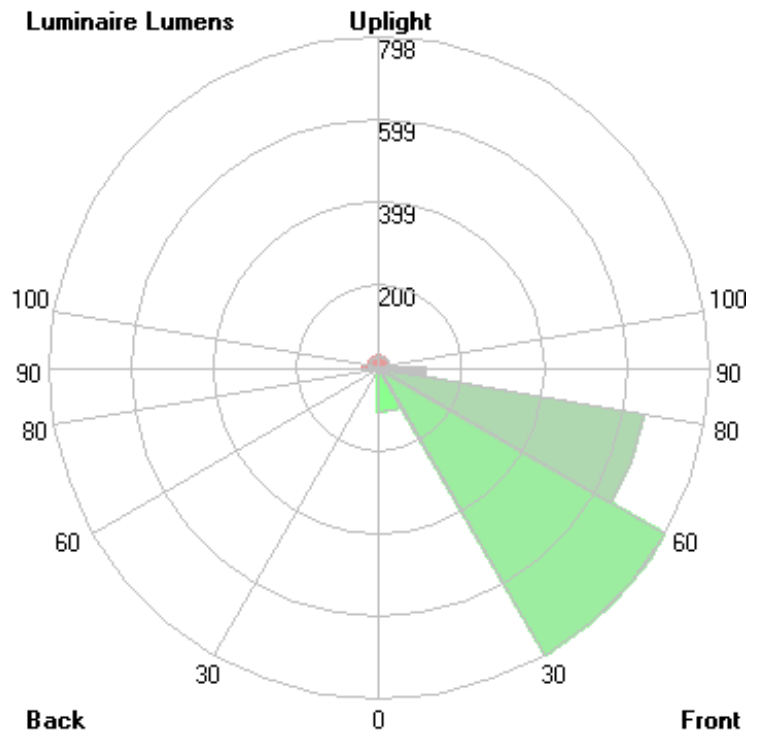
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	105.8	N.A.	6.1
FM (30-60)	798.0	N.A.	46.2
FH (60-80)	647.4	N.A.	37.5
FVH (80-90)	114.4	N.A.	6.6
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)	35.4	N.A.	2.0
UH (100-180)	26.2	N.A.	1.5
Total	1727.2	N.A.	100.0

BUG Rating B0-U2-G2



Grid Spacing: 10 ft.



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

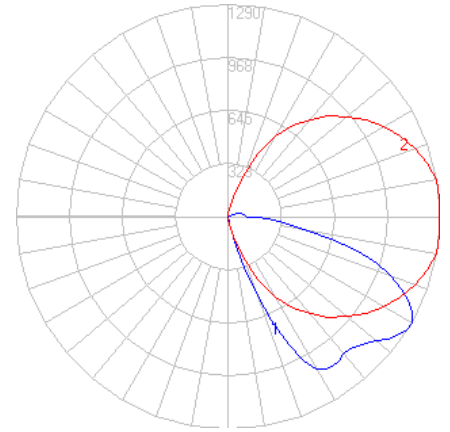
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BEGA

File: 84413K3_BEGA_IES.ies

TEST: BE_84413K4
TEST LAB: BEGA
DATE: 03/01/2017
LUMINAIRE: 84 413K3
LAMP: 11.6W LED



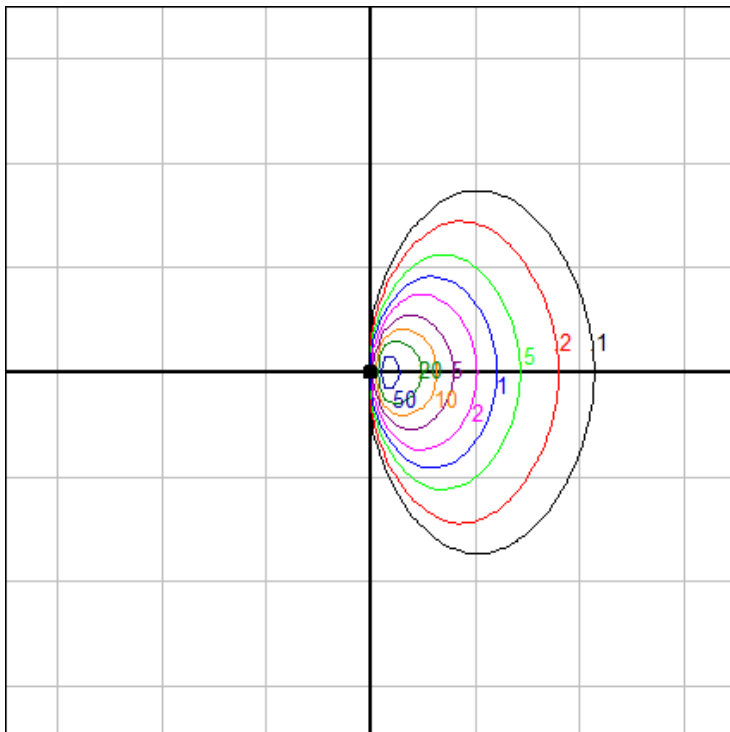
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1710
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Max. Cd.	1290.488 (5H, 60V)
Max. Cd. (<90 Vert.)	1290.488 (5H, 60V)
Max. Cd. (At 90 Deg. Vert.)	116.885 (6.8%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	497.707 (29.1%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

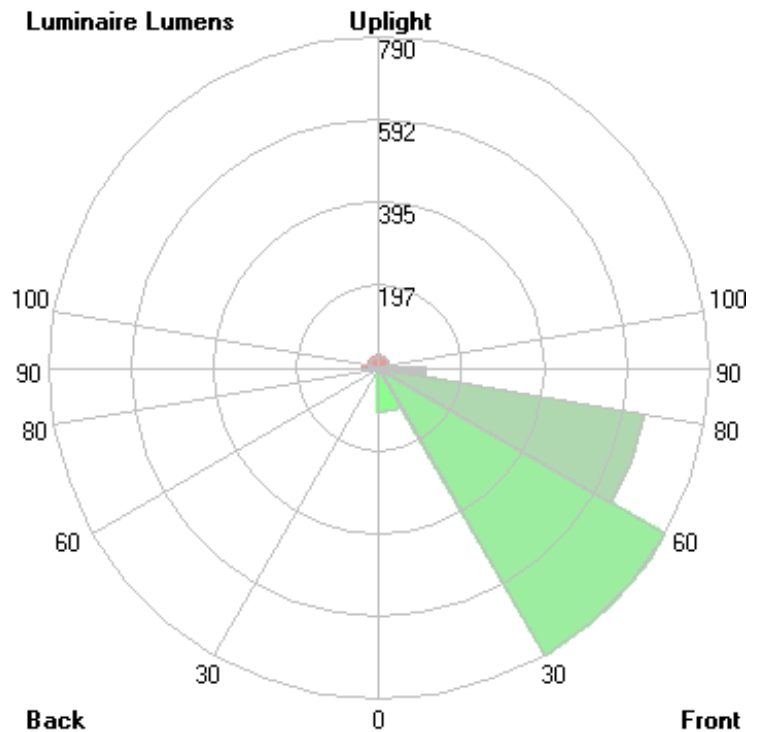
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	104.7	N.A.	6.1
FM (30-60)	789.9	N.A.	46.2
FH (60-80)	640.8	N.A.	37.5
FVH (80-90)	113.2	N.A.	6.6
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)	35.0	N.A.	2.0
UH (100-180)	25.9	N.A.	1.5
Total	1709.5	N.A.	100.0

BUG Rating B0-U2-G2



Grid Spacing: 10 ft.



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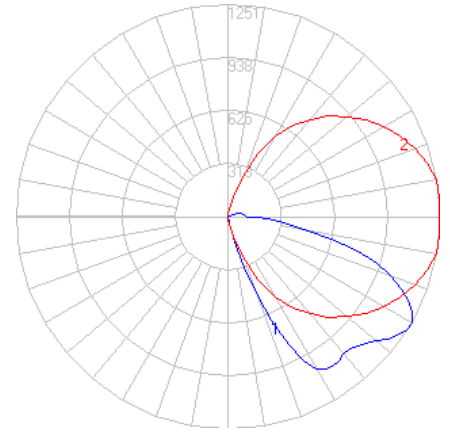
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BEGA

File: 84413K27_BEGA_IES.ies

TEST: BE_84413K4
TEST LAB: BEGA
DATE: 03/01/2017
LUMINAIRE: 84 413K27
LAMP: 11.6W LED



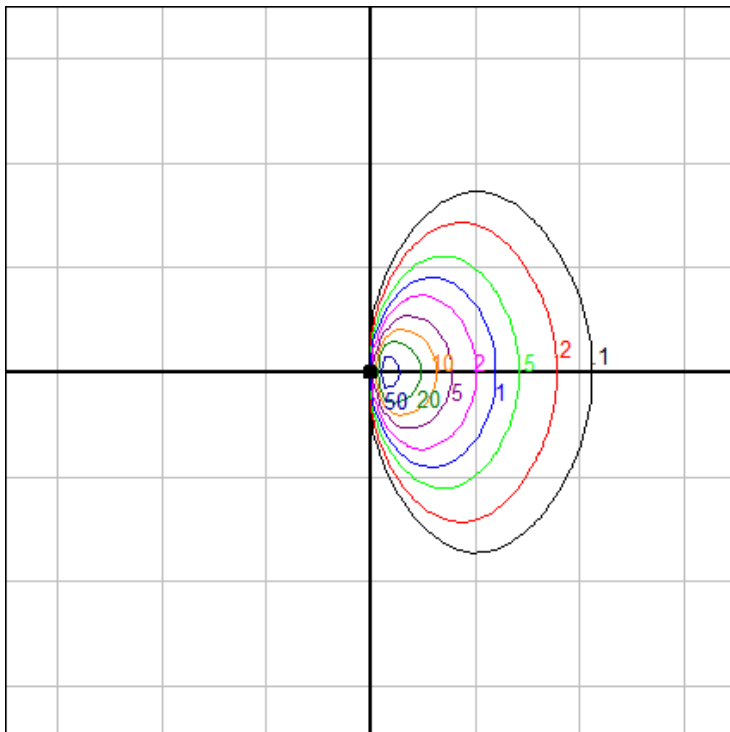
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1657
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Max. Cd.	1250.576 (5H, 60V)
Max. Cd. (<90 Vert.)	1250.576 (5H, 60V)
Max. Cd. (At 90 Deg. Vert.)	113.27 (6.8%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	482.314 (29.1%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

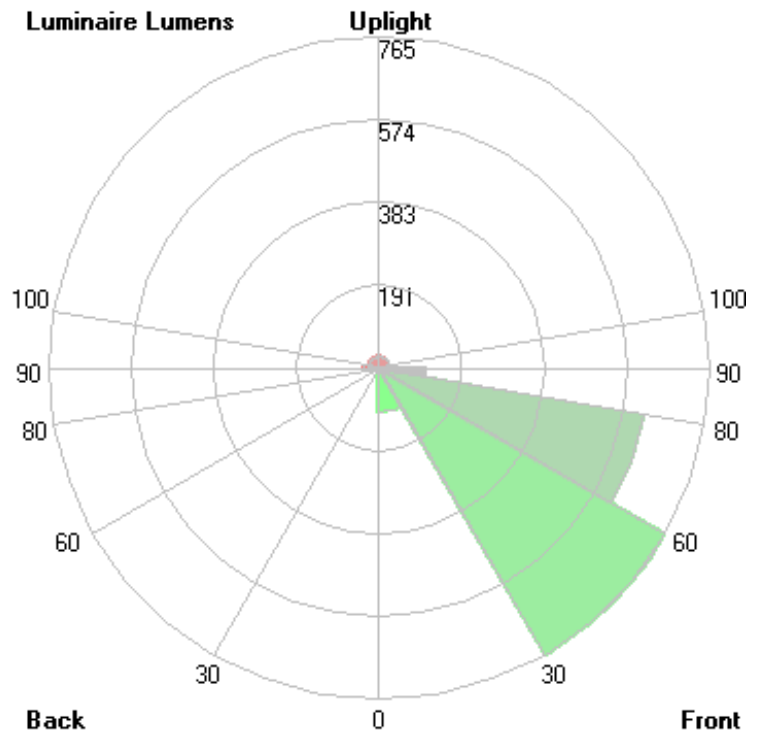
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	101.5	N.A.	6.1
FM (30-60)	765.4	N.A.	46.2
FH (60-80)	621.0	N.A.	37.5
FVH (80-90)	109.7	N.A.	6.6
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)	33.9	N.A.	2.0
UH (100-180)	25.1	N.A.	1.5
Total	1656.6	N.A.	100.0

BUG Rating B0-U2-G2



Grid Spacing: 10 ft.



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