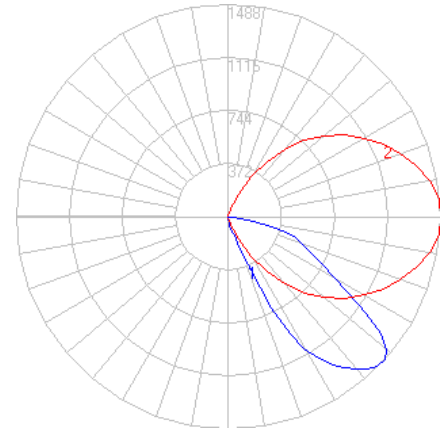


BEGA

File: 84415K4_BEGA_IES.ies

TEST: BE_84415K4
TEST LAB: BEGA
DATE: 03/01/2017
LUMINAIRE: 84 415K4
LAMP: 11.6W LED



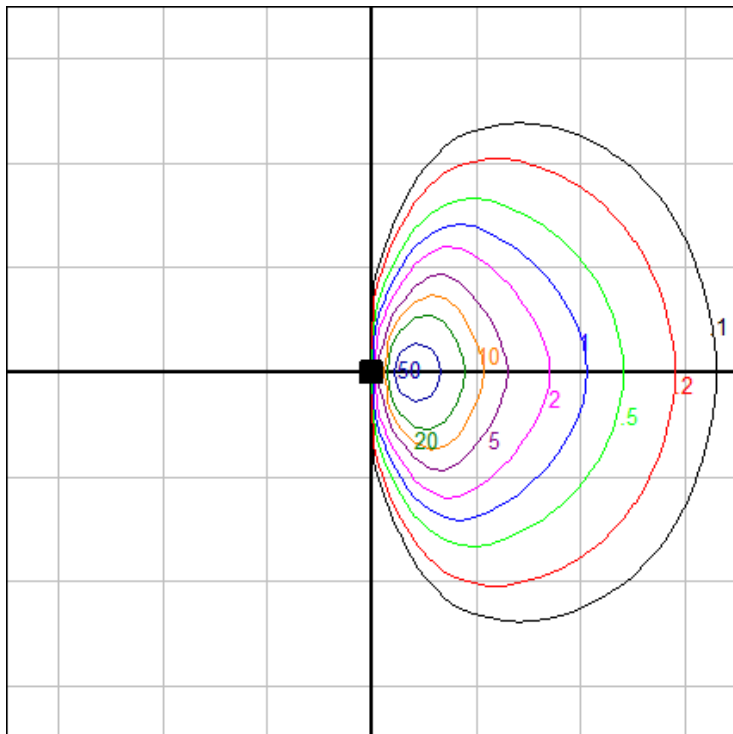
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1145
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	1488.2 (5H, 47.5V)
Max. Cd. (<90 Vert.)	1488.2 (5H, 47.5V)
Max. Cd. (At 90 Deg. Vert.)	6 (0.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	182.9 (16.0%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

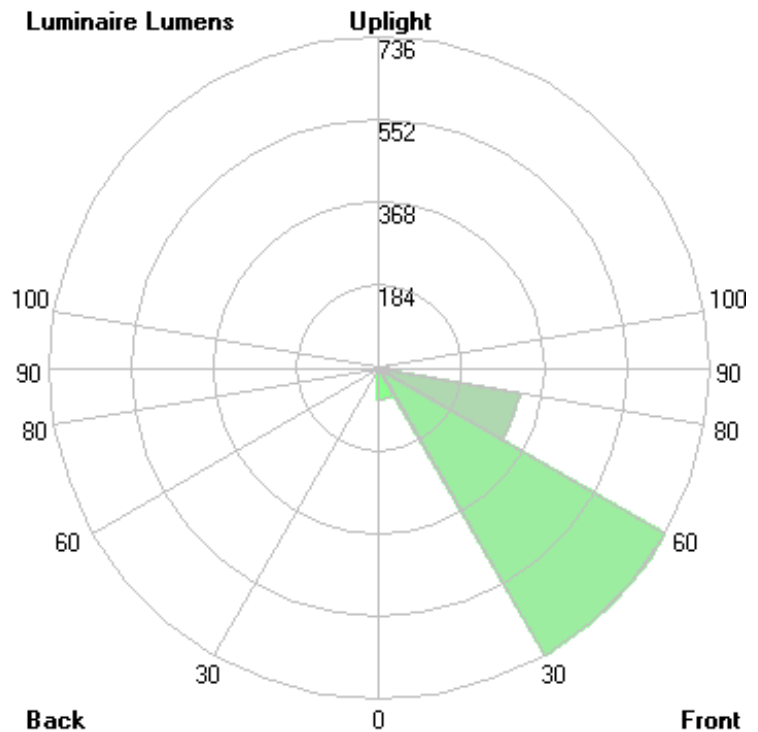
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	69.0	N.A.	6.0
FM (30-60)	735.7	N.A.	64.3
FH (60-80)	317.5	N.A.	27.7
FVH (80-90)	20.8	N.A.	1.8
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	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)	1.0	N.A.	0.1
UH (100-180)	0.6	N.A.	0.1
Total	1144.6	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.

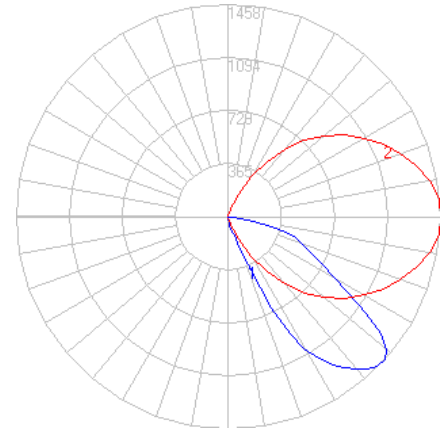
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BEGA

File: 84415K35_BEGA_IES.ies

TEST: BE_84415K4
TEST LAB: BEGA
DATE: 03/01/2017
LUMINAIRE: 84 415K35
LAMP: 11.6W LED



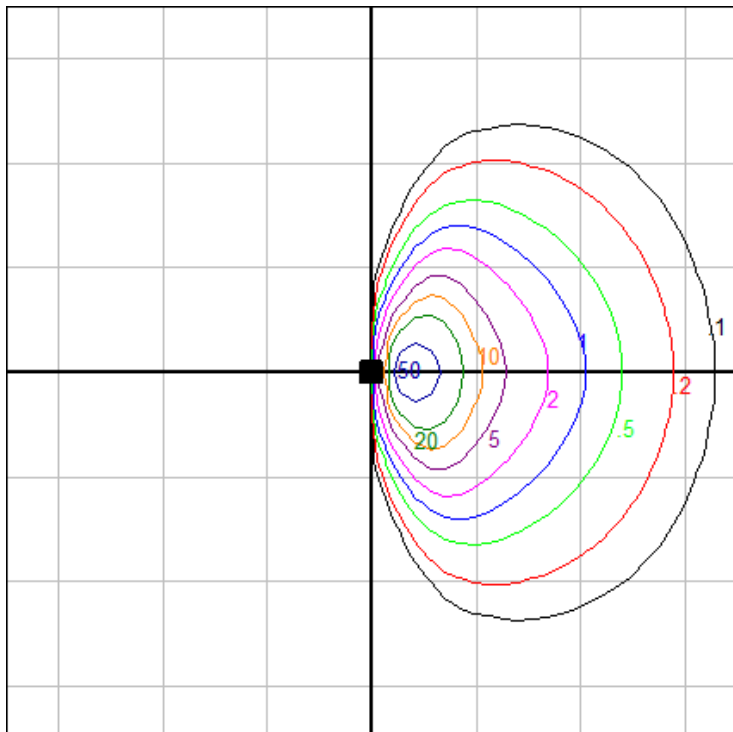
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1122
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	1458.436 (5H, 47.5V)
Max. Cd. (<90 Vert.)	1458.436 (5H, 47.5V)
Max. Cd. (At 90 Deg. Vert.)	5.88 (0.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	179.242 (16.0%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	67.6	N.A.	6.0
FM (30-60)	721.0	N.A.	64.3
FH (60-80)	311.1	N.A.	27.7
FVH (80-90)	20.4	N.A.	1.8
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	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)	1.0	N.A.	0.1
UH (100-180)	0.6	N.A.	0.1
Total	1121.7	N.A.	100.0

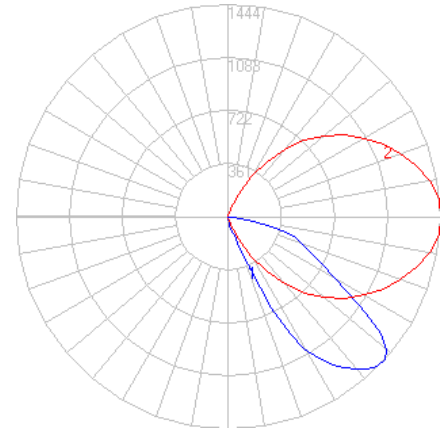
BUG Rating B0-U1-G1



BEGA

File: 84415K3_BEGA_IES.ies

TEST: BE_84415K4
TEST LAB: BEGA
DATE: 03/01/2017
LUMINAIRE: 84 415K3
LAMP: 11.6W LED



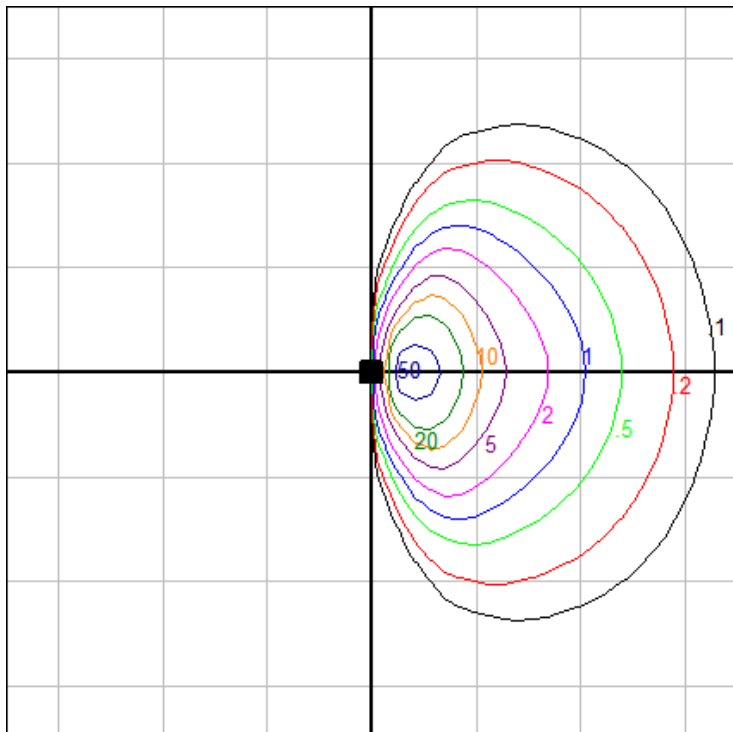
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1110
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	1443.554 (5H, 47.5V)
Max. Cd. (<90 Vert.)	1443.554 (5H, 47.5V)
Max. Cd. (At 90 Deg. Vert.)	5.82 (0.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	177.413 (16.0%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

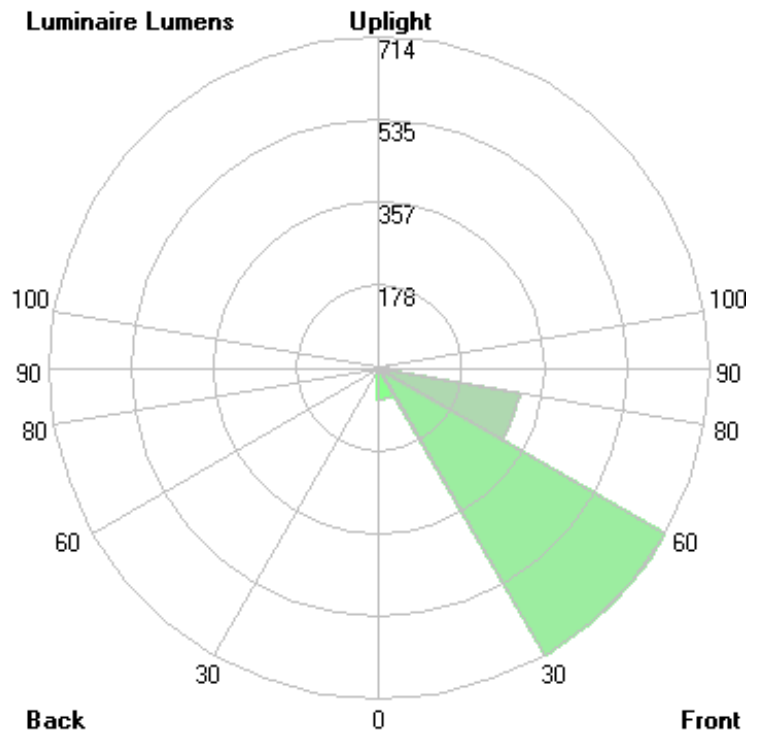
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	66.9	N.A.	6.0
FM (30-60)	713.6	N.A.	64.3
FH (60-80)	307.9	N.A.	27.7
FVH (80-90)	20.2	N.A.	1.8
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	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)	1.0	N.A.	0.1
UH (100-180)	0.6	N.A.	0.1
Total	1110.2	N.A.	100.0

BUG Rating B0-U1-G1



Grid Spacing: 5 ft.



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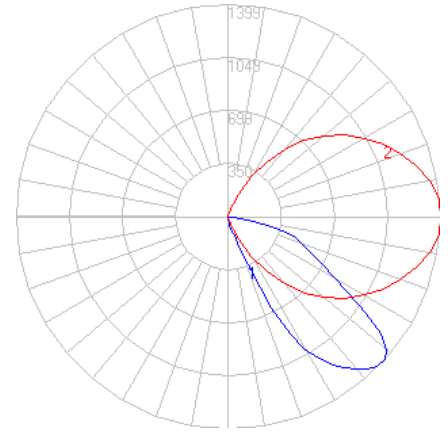
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BEGA

File: 84415K27_BEGA_IES.ies

TEST: BE_84415K4
TEST LAB: BEGA
DATE: 03/01/2017
LUMINAIRE: 84 415K27
LAMP: 11.6W LED



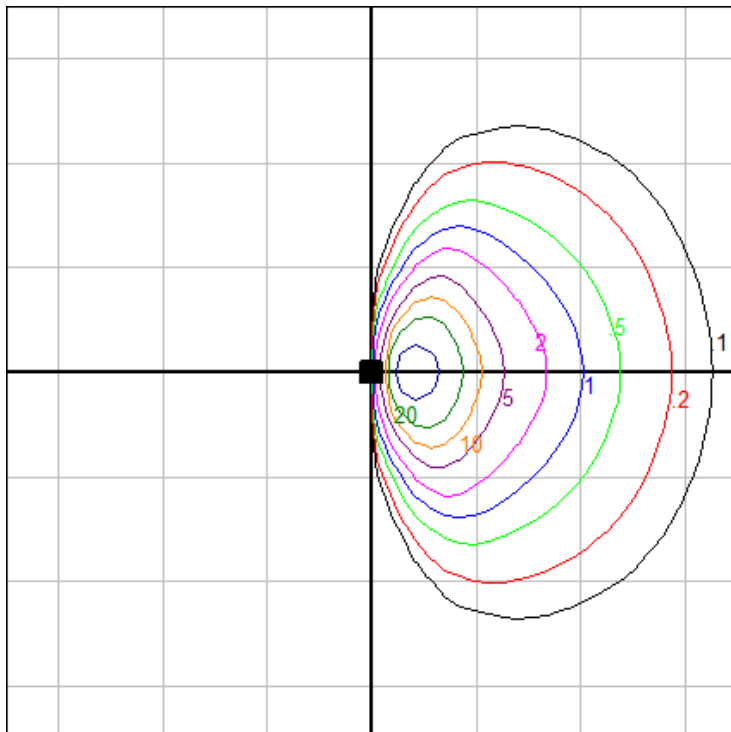
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1076
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	1398.908 (5H, 47.5V)
Max. Cd. (<90 Vert.)	1398.908 (5H, 47.5V)
Max. Cd. (At 90 Deg. Vert.)	5.64 (0.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	171.926 (16.0%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

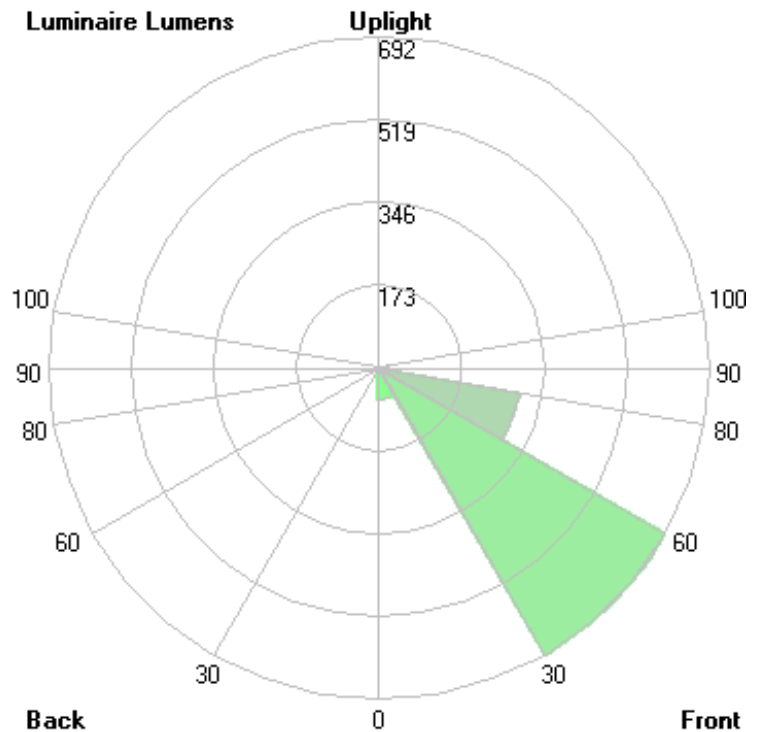
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	64.8	N.A.	6.0
FM (30-60)	691.5	N.A.	64.3
FH (60-80)	298.4	N.A.	27.7
FVH (80-90)	19.6	N.A.	1.8
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	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)	1.0	N.A.	0.1
UH (100-180)	0.6	N.A.	0.1
Total	1075.9	N.A.	100.0

BUG Rating B0-U1-G1



Grid Spacing: 5 ft.



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