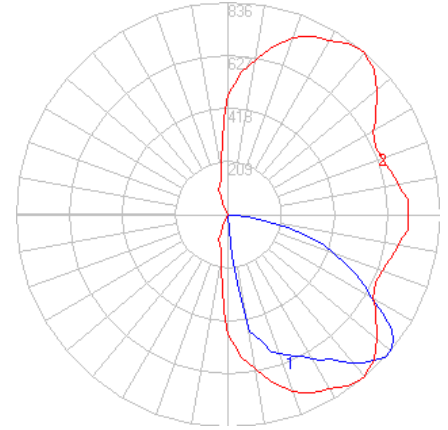


BEGA

File: 84220K4_BEGA_IES.ies

TEST: BE_84220K4
TEST LAB: BEGA
DATE: 2/27/2017
LUMINAIRE: 84 220K4
LAMP: 11.5W LED



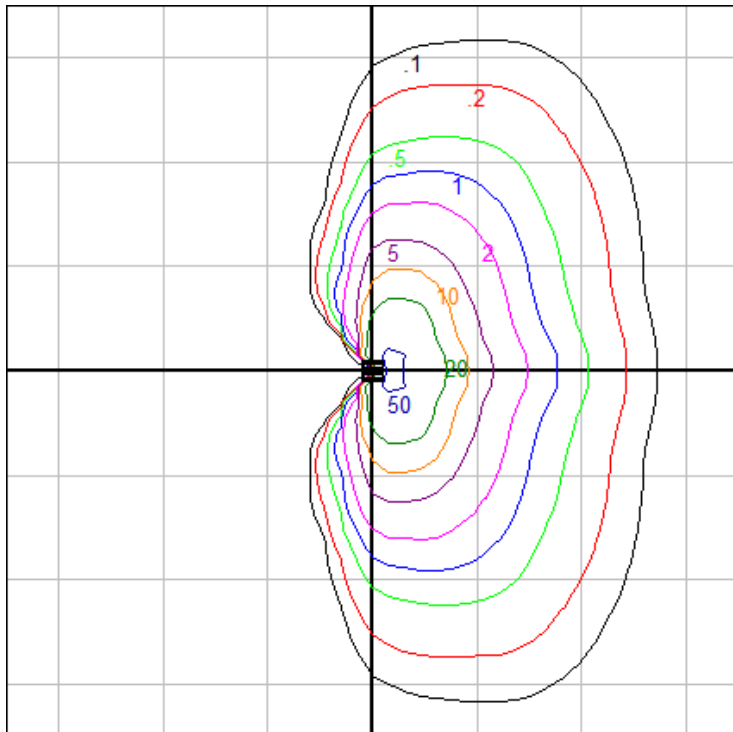
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1474
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	836.2 (310H, 47.5V)
Max. Cd. (<90 Vert.)	836.2 (310H, 47.5V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	190.1 (12.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

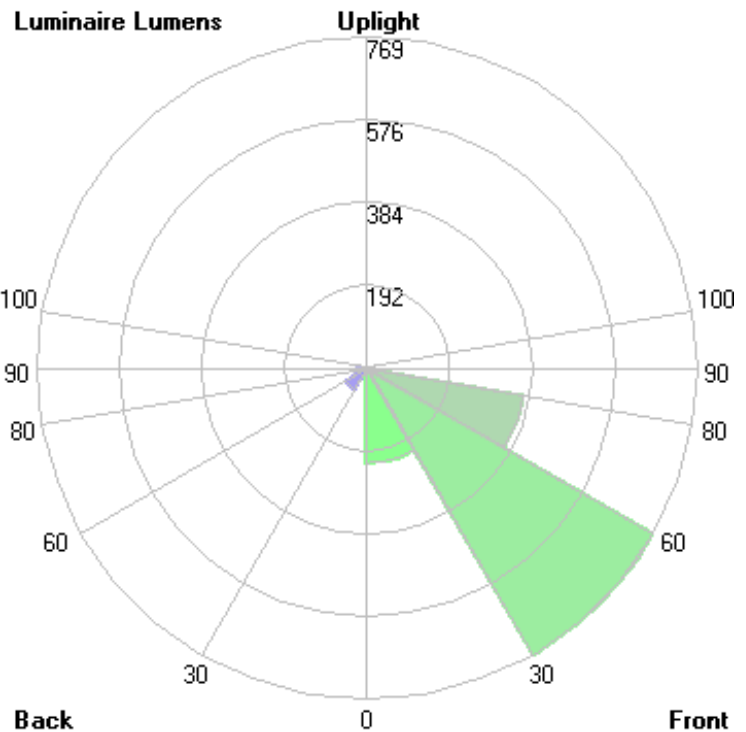
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	220.2	N.A.	14.9
FM (30-60)	768.6	N.A.	52.1
FH (60-80)	368.7	N.A.	25.0
FVH(80-90)	15.9	N.A.	1.1
BL (0-30)	15.6	N.A.	1.1
BM (30-60)	58.1	N.A.	3.9
BH (60-80)	26.4	N.A.	1.8
BVH(80-90)	0.8	N.A.	0.1
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1474.3	N.A.	100.0

BUG Rating B0-U0-G1



Grid Spacing: 5 ft.



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

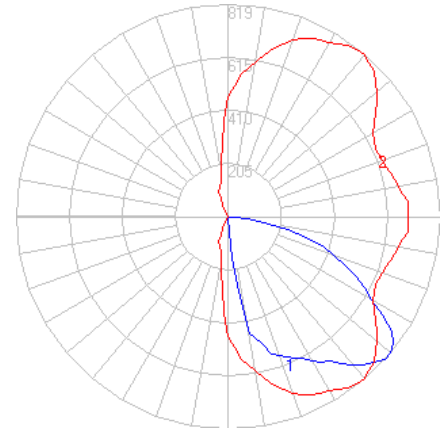
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BEGA

File: 84220K35_BEGA_IES.ies

TEST: BE_84220K4
TEST LAB: BEGA
DATE: 2/27/2017
LUMINAIRE: 84 220K35
LAMP: 11.5W LED



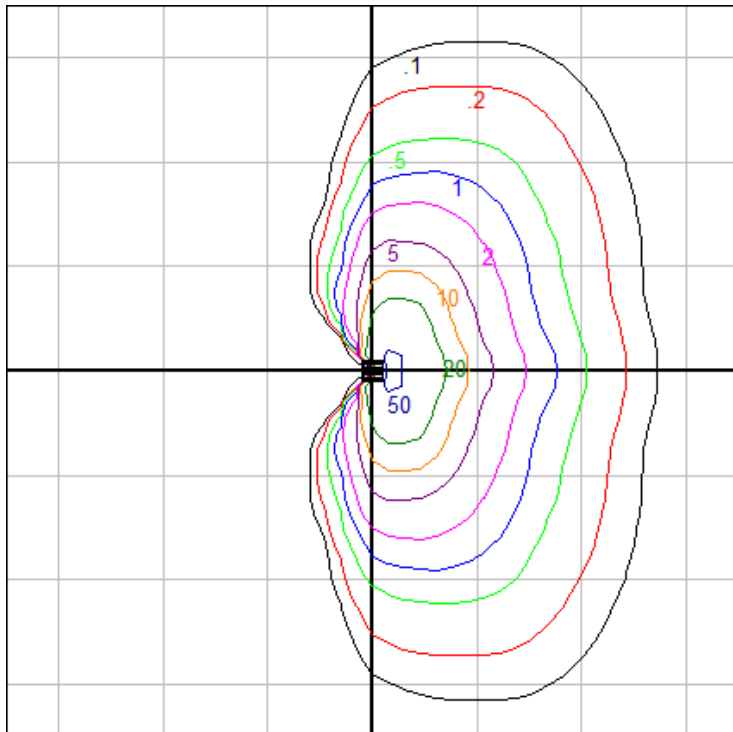
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1445
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	819.476 (310H, 47.5V)
Max. Cd. (<90 Vert.)	819.476 (310H, 47.5V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	186.298 (12.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

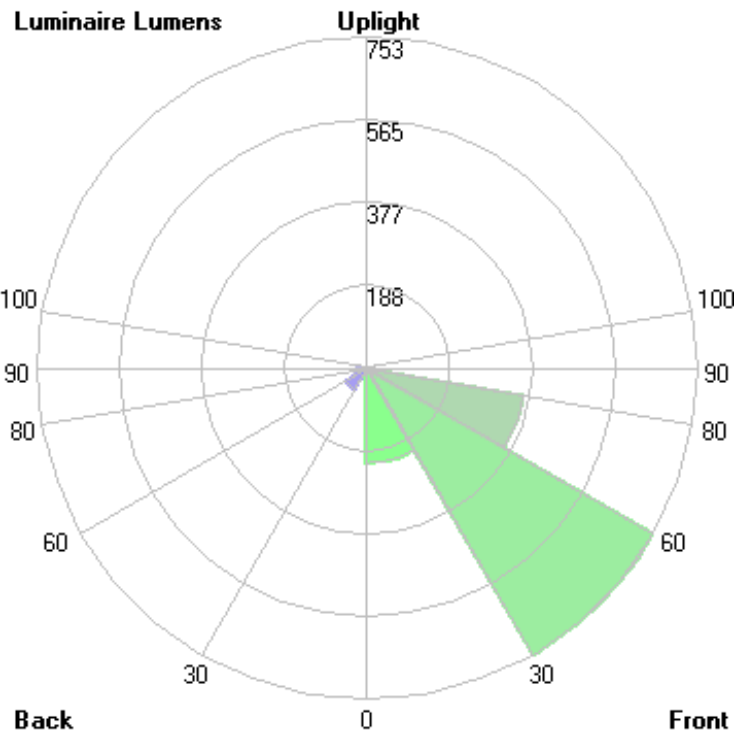
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	215.8	N.A.	14.9
FM (30-60)	753.2	N.A.	52.1
FH (60-80)	361.3	N.A.	25.0
FVH(80-90)	15.6	N.A.	1.1
BL (0-30)	15.2	N.A.	1.1
BM (30-60)	56.9	N.A.	3.9
BH (60-80)	25.9	N.A.	1.8
BVH(80-90)	0.8	N.A.	0.1
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1444.7	N.A.	100.0

BUG Rating B0-U0-G1



Grid Spacing: 5 ft.



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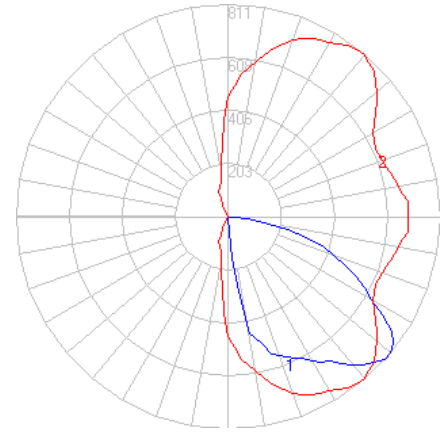
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BEGA

File: 84220K3_BEGA_IES.ies

TEST: BE_84220K4
TEST LAB: BEGA
DATE: 2/27/2017
LUMINAIRE: 84 220K3
LAMP: 11.5W LED



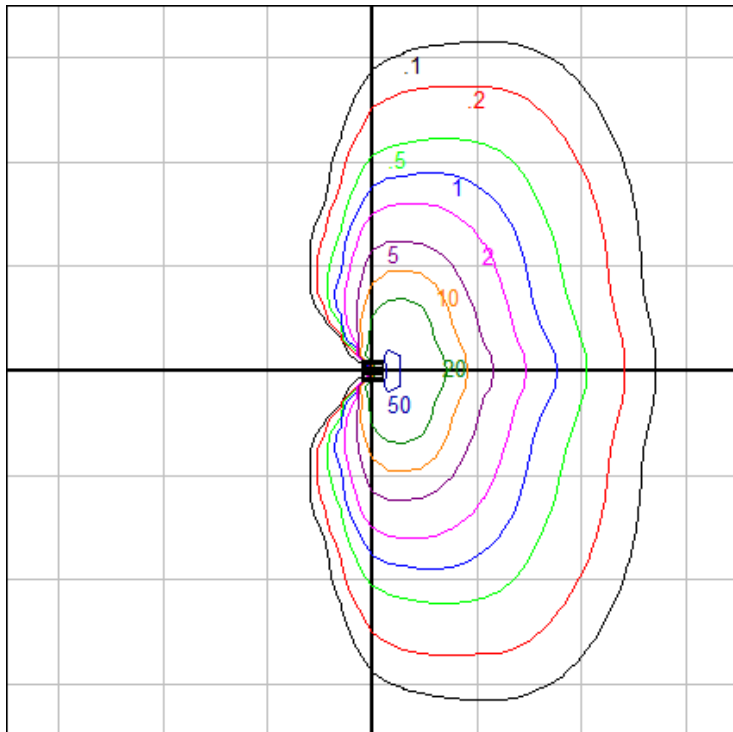
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1430
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	811.114 (310H, 47.5V)
Max. Cd. (<90 Vert.)	811.114 (310H, 47.5V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	184.397 (12.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

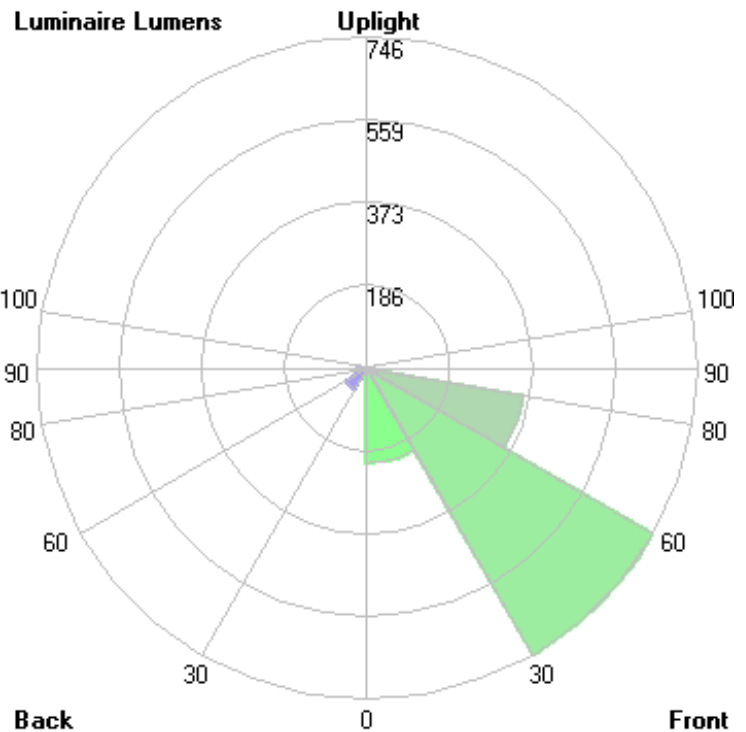
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	213.6	N.A.	14.9
FM (30-60)	745.5	N.A.	52.1
FH (60-80)	357.6	N.A.	25.0
FVH(80-90)	15.4	N.A.	1.1
BL (0-30)	15.1	N.A.	1.1
BM (30-60)	56.4	N.A.	3.9
BH (60-80)	25.6	N.A.	1.8
BVH(80-90)	0.8	N.A.	0.1
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1430.0	N.A.	100.0

BUG Rating B0-U0-G1



Grid Spacing: 5 ft.



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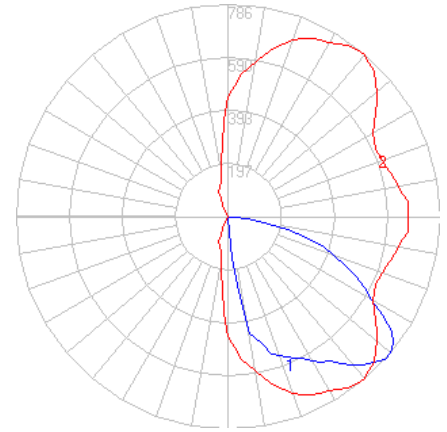
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BEGA

File: 84220K27_BEGA_IES.ies

TEST: BE_84220K4
TEST LAB: BEGA
DATE: 2/27/2017
LUMINAIRE: 84 220K27
LAMP: 11.5W LED



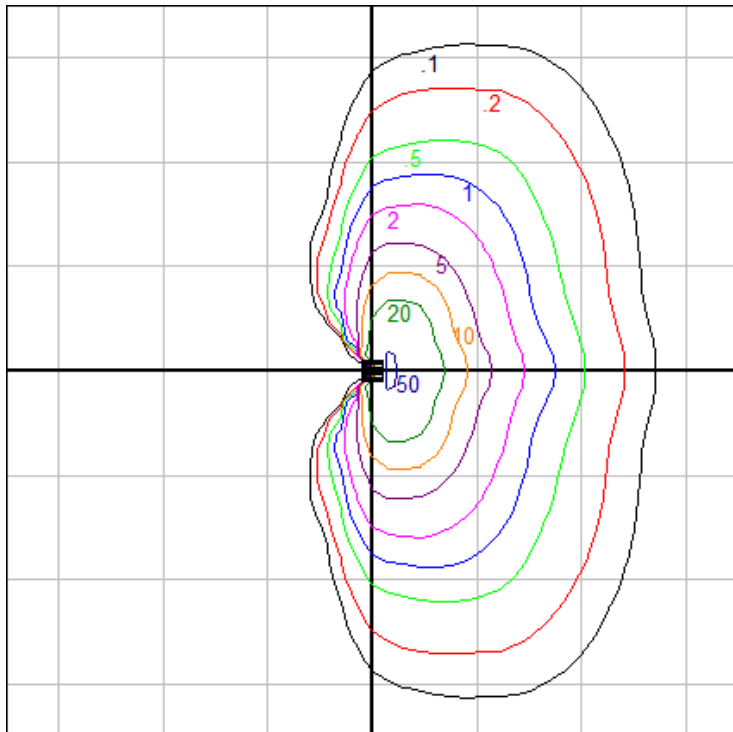
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1386
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	786.028 (310H, 47.5V)
Max. Cd. (<90 Vert.)	786.028 (310H, 47.5V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	178.694 (12.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

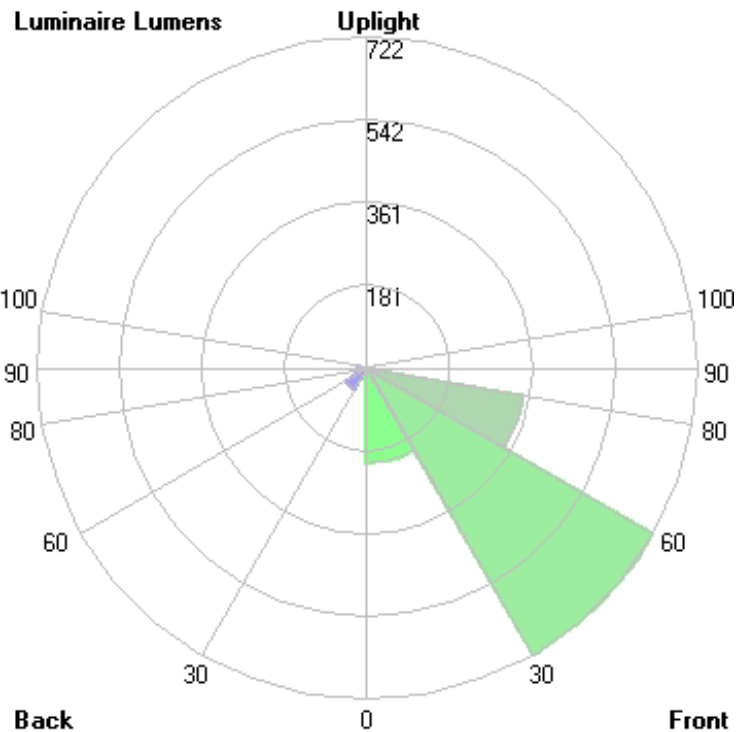
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	207.0	N.A.	14.9
FM (30-60)	722.5	N.A.	52.1
FH (60-80)	346.5	N.A.	25.0
FVH(80-90)	14.9	N.A.	1.1
BL (0-30)	14.6	N.A.	1.1
BM (30-60)	54.6	N.A.	3.9
BH (60-80)	24.8	N.A.	1.8
BVH(80-90)	0.7	N.A.	0.1
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1385.6	N.A.	100.0

BUG Rating B0-U0-G1



Grid Spacing: 5 ft.



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