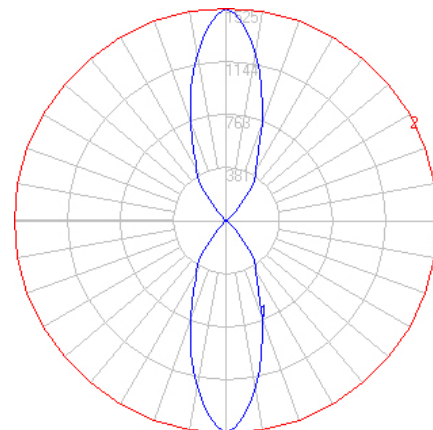


BEGA

File: 50603K4_BEGA_IES.ies

TEST: BE_50603K4
TEST LAB: BEGA
DATE: 12/17/2018
LUMINAIRE: 50 603K4
LAMP: 16.2W LED

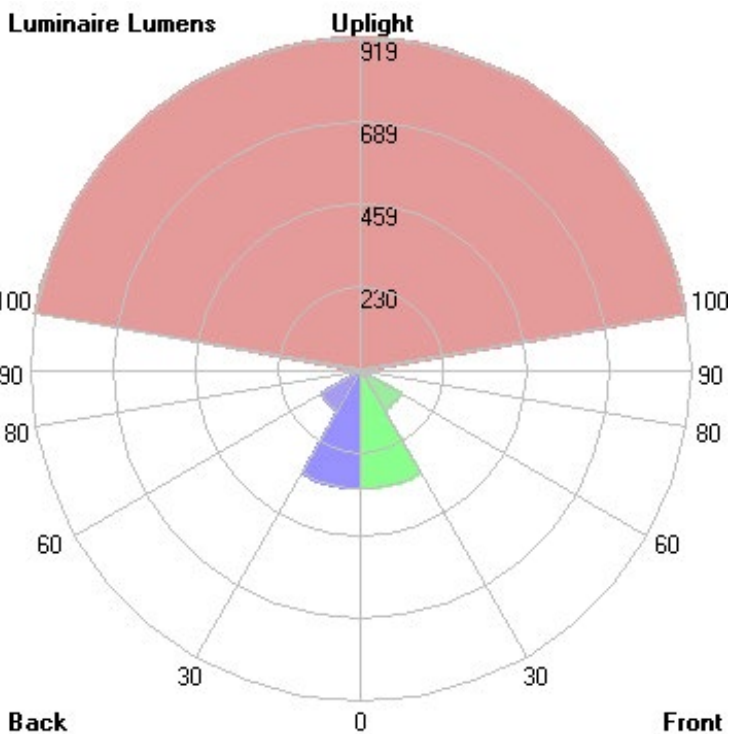
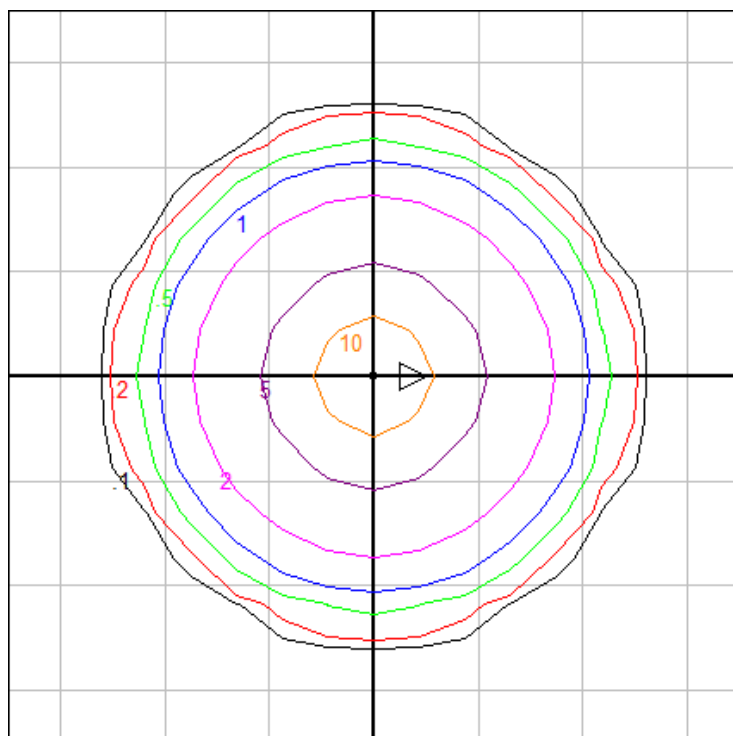


Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1838
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	20
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	1525 (0H, 180V)
Max. Cd. (<90 Vert.)	1525 (0H, 0V)
Max. Cd. (At 90 Deg. Vert.)	.1 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	.6 (0.0%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS	Zone	Lumens	%Lamp	%Lum
FL	(0-30)	328.8	N.A.	17.9
FM	(30-60)	128.8	N.A.	7.0
FH	(60-80)	1.7	N.A.	0.1
FVH	(80-90)	0.2	N.A.	0.0
BL	(0-30)	328.8	N.A.	17.9
BM	(30-60)	128.8	N.A.	7.0
BH	(60-80)	1.7	N.A.	0.1
BVH	(80-90)	0.2	N.A.	0.0
UL	(90-100)	0.4	N.A.	0.0
UH	(100-180)	918.7	N.A.	50.0
Total		1838.1	N.A.	100.0
BUG Rating	B1-U4-G0			



Mounting Height: 10 ft

Grid Spacing: 4ft.

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

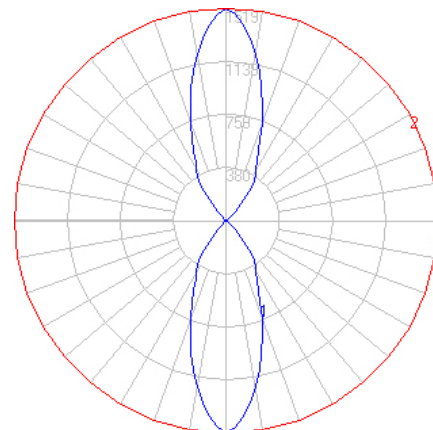
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BEGA

File: 50603K35_BEGA_IES.ies

TEST: BE_50603K4
TEST LAB: BEGA
DATE: 12/17/2018
LUMINAIRE: 50 603K35
LAMP: 16.2W LED

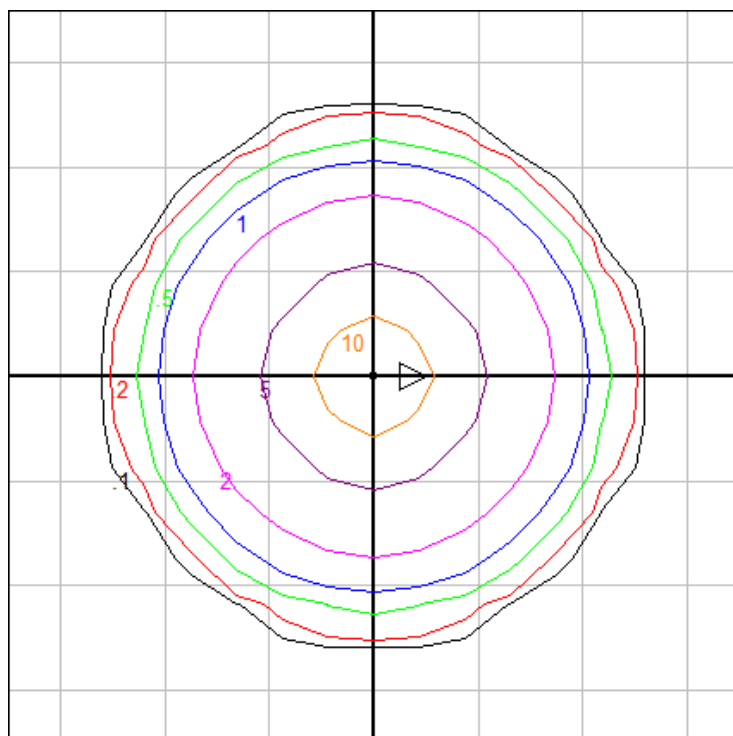


Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1831
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	20
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	1518.9 (0H, 180V)
Max. Cd. (<90 Vert.)	1518.9 (0H, 0V)
Max. Cd. (At 90 Deg. Vert.)	.1 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	.598 (0.0%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

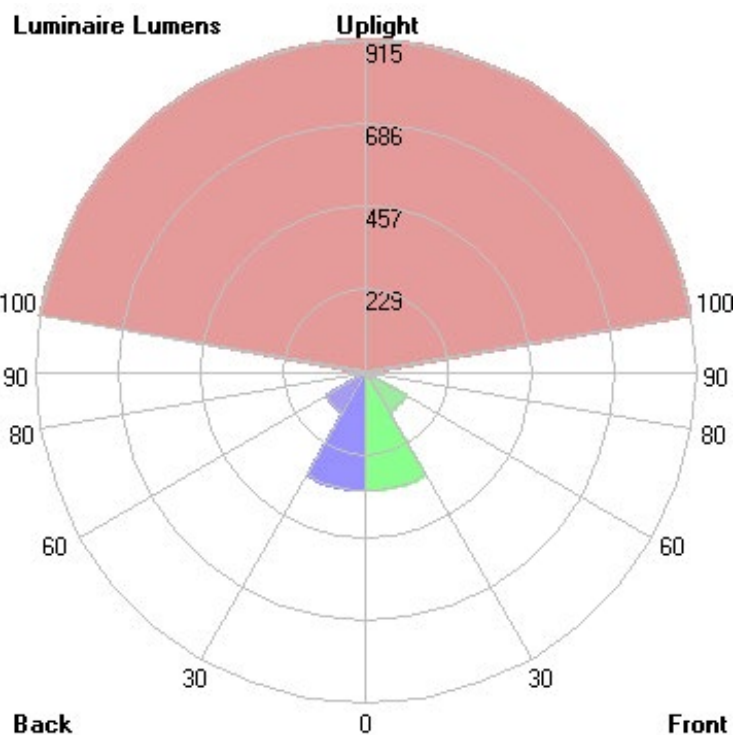
Lum. Classification System (LCS)

LCS	Zone	Lumens	%Lamp	%Lum
FL	(0-30)	327.5	N.A.	17.9
FM	(30-60)	128.3	N.A.	7.0
FH	(60-80)	1.7	N.A.	0.1
FVH	(80-90)	0.2	N.A.	0.0
BL	(0-30)	327.5	N.A.	17.9
BM	(30-60)	128.3	N.A.	7.0
BH	(60-80)	1.7	N.A.	0.1
BVH	(80-90)	0.2	N.A.	0.0
UL	(90-100)	0.4	N.A.	0.0
UH	(100-180)	915.0	N.A.	50.0
Total		1830.8	N.A.	100.0
BUG Rating	B1-U4-G0			



Mounting Height: 10 ft

Grid Spacing: 4ft.



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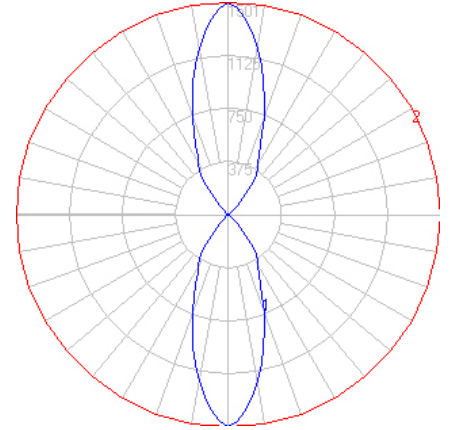
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BEGA

File: 50603K3_BEGA_IES.ies

TEST: BE_50603K4
TEST LAB: BEGA
DATE: 12/17/2018
LUMINAIRE: 50 603K43
LAMP: 16.2W LED

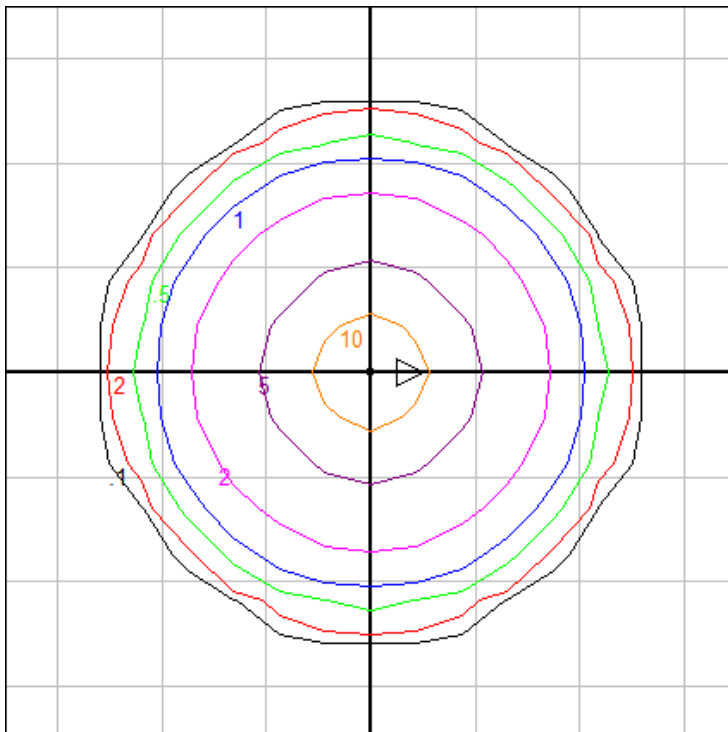


Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1809
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	20
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	1500.6 (0H, 180V)
Max. Cd. (<90 Vert.)	1500.6 (0H, 0V)
Max. Cd. (At 90 Deg. Vert.)	.098 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	.59 (0.0%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

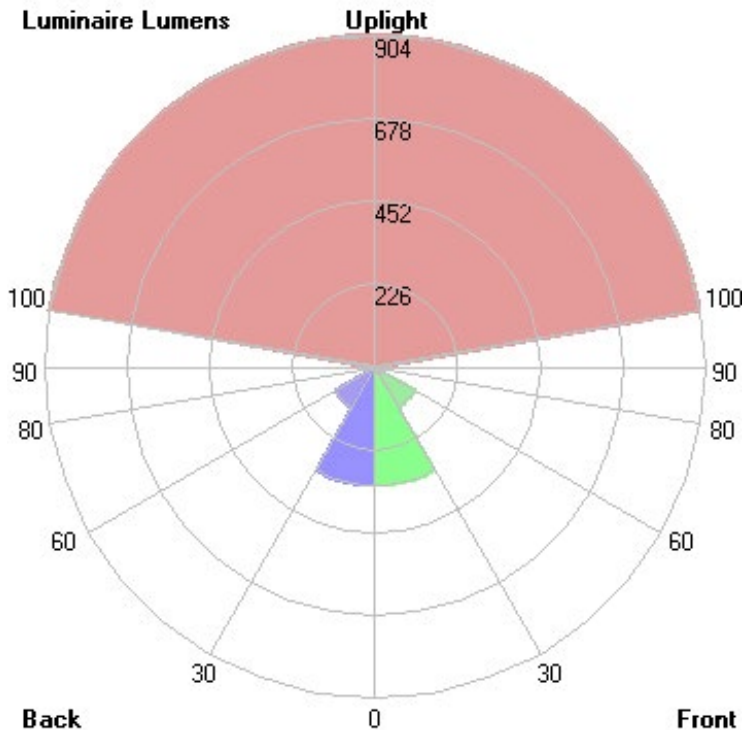
Lum. Classification System (LCS)

LCS	Zone	Lumens	%Lamp	%Lum
FL	(0-30)	323.5	N.A.	17.9
FM	(30-60)	126.8	N.A.	7.0
FH	(60-80)	1.7	N.A.	0.1
FVH	(80-90)	0.2	N.A.	0.0
BL	(0-30)	323.5	N.A.	17.9
BM	(30-60)	126.8	N.A.	7.0
BH	(60-80)	1.7	N.A.	0.1
BVH	(80-90)	0.2	N.A.	0.0
UL	(90-100)	0.4	N.A.	0.0
UH	(100-180)	904.0	N.A.	50.0
Total		1808.8	N.A.	100.0
BUG Rating	B1-U4-G0			



Mounting Height: 10 ft

Grid Spacing: 4ft.



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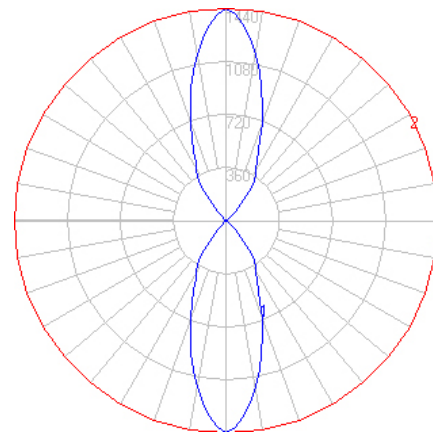
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BEGA

File: 50603K27_BEGA_IES.ies

TEST: BE_50603K4
TEST LAB: BEGA
DATE: 12/17/2018
LUMINAIRE: 50 603K27
LAMP: 16.2W LED

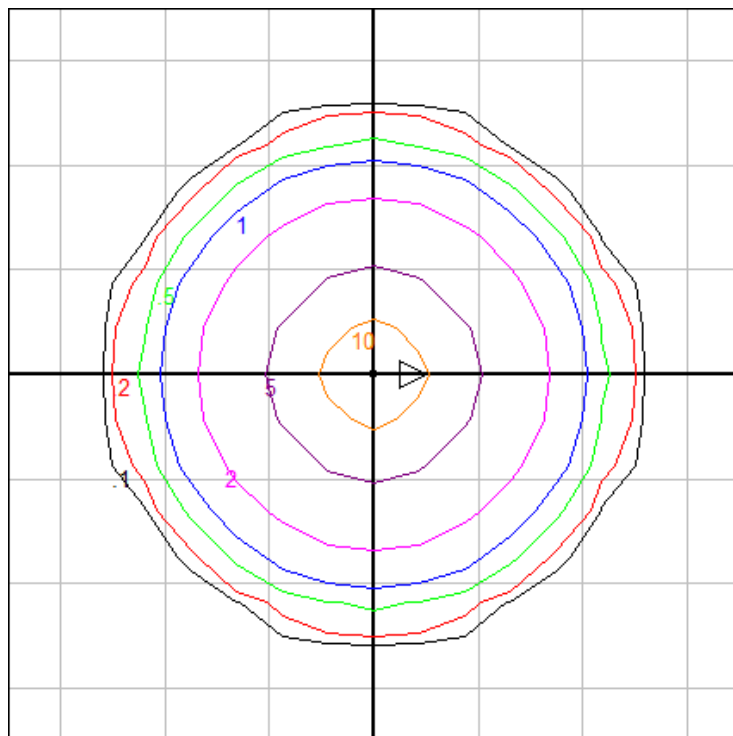


Characteristics

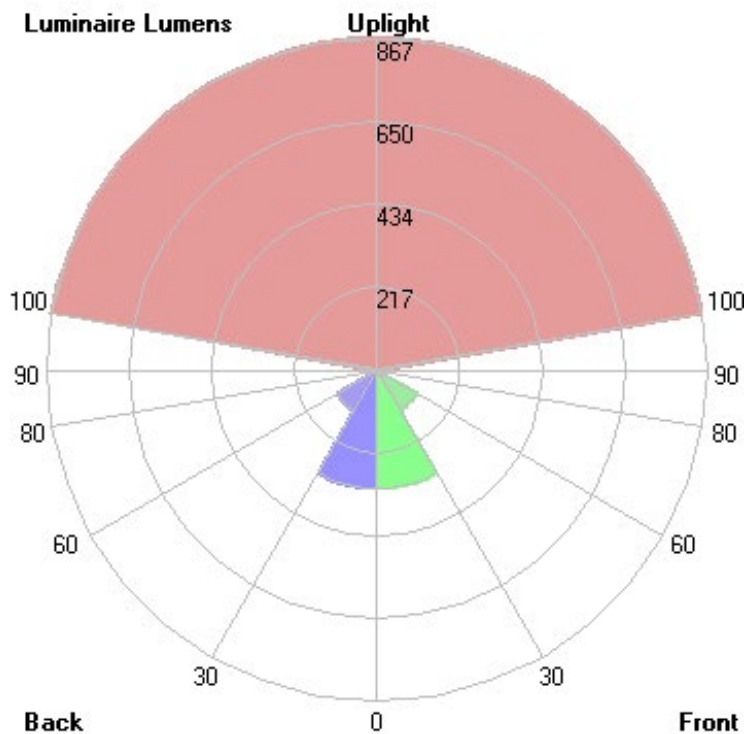
IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1735
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	20
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	1439.6 (0H, 180V)
Max. Cd. (<90 Vert.)	1439.6 (0H, 0V)
Max. Cd. (At 90 Deg. Vert.)	.094 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	.566 (0.0%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS	Zone	Lumens	%Lamp	%Lum
FL	(0-30)	310.4	N.A.	17.9
FM	(30-60)	121.6	N.A.	7.0
FH	(60-80)	1.6	N.A.	0.1
FVH	(80-90)	0.2	N.A.	0.0
BL	(0-30)	310.4	N.A.	17.9
BM	(30-60)	121.6	N.A.	7.0
BH	(60-80)	1.6	N.A.	0.1
BVH	(80-90)	0.2	N.A.	0.0
UL	(90-100)	0.4	N.A.	0.0
UH	(100-180)	867.2	N.A.	50.0
Total		1735.2	N.A.	100.0
BUG Rating	B1-U4-G0			



Luminaire Lumens



Mounting Height: 10 ft

Grid Spacing: 4ft.

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