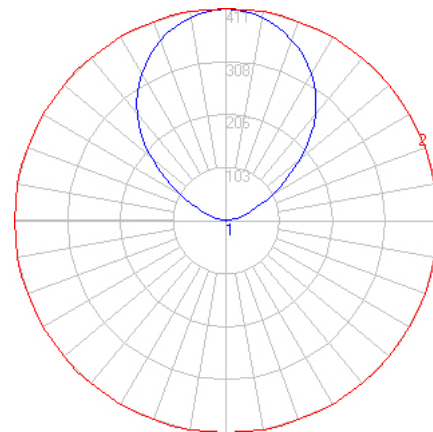


BEGA

File: 50180K4_BEGA_IES.ies

TEST: BE_50180K4
TEST LAB: BEGA
DATE: 07/31/2017
LUMINAIRE: 50 180K4
LAMP: 10.5W LED

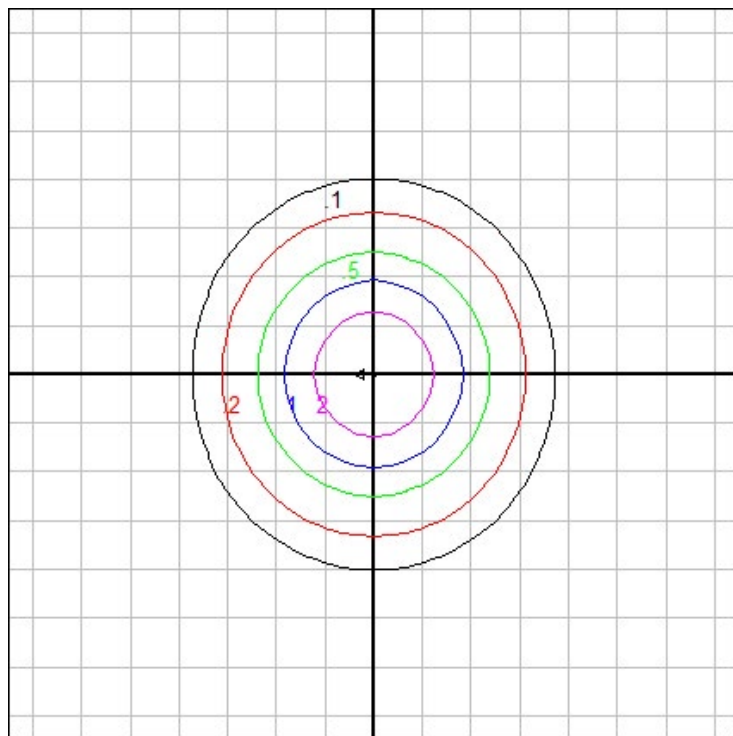


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	970
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	12
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.26 ft
Luminous Width (90-270)	0.56 ft
Luminous Height	0.00 ft

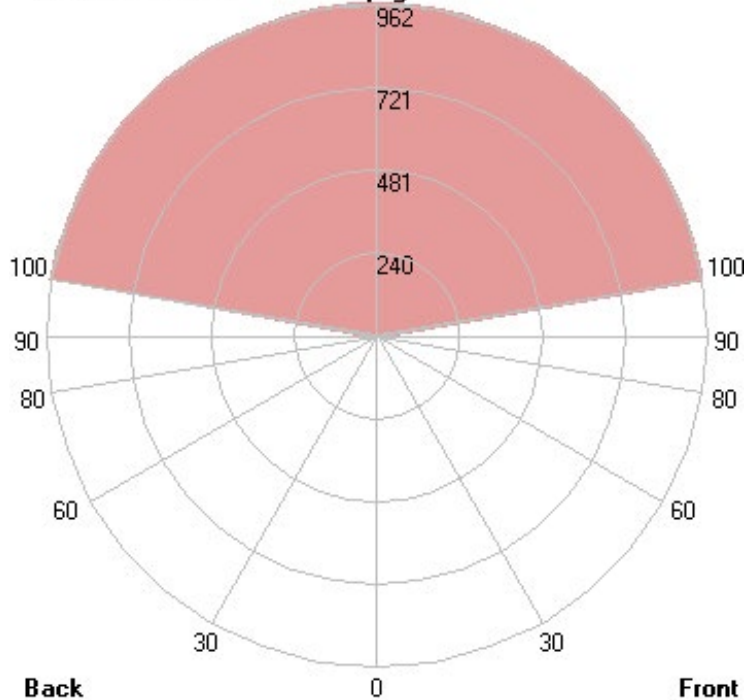
Lum. Classification System (LCS)

LCS	Zone	Lumens	%Lamp	%Lum
FL	(0-30)	0.0	N.A.	0.0
FM	(30-60)	0.0	N.A.	0.0
FH	(60-80)	0.0	N.A.	0.0
FVH	(80-90)	< 0.05	N.A.	0.0
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)	< 0.05	N.A.	0.0
UL	(90-100)	8.2	N.A.	0.8
UH	(100-180)	961.9	N.A.	99.2
Total		970.1	N.A.	100.0
BUG Rating	B0-U4-G0			



Luminaire Lumens

Uplight



Ceiling Height: 10 ft

Grid Spacing: 5ft.

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

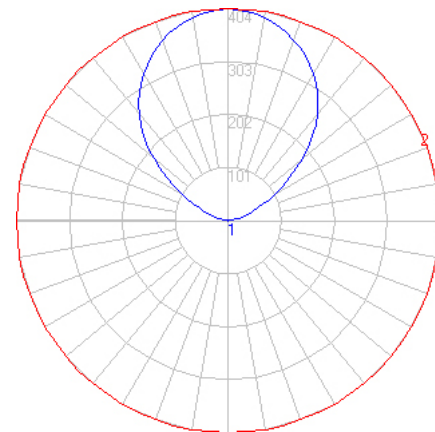
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BEGA

File: 50180K35_BEGA_IES.ies

TEST: BE_50180K4
TEST LAB: BEGA
DATE: 07/31/2017
LUMINAIRE: 50 180K35
LAMP: 10.5W LED

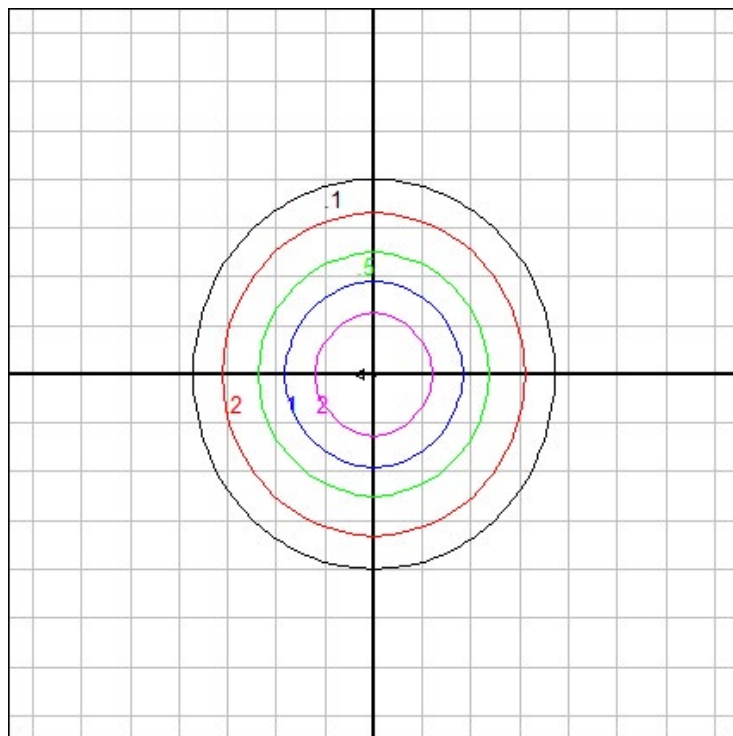


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	953
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	12
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.26 ft
Luminous Width (90-270)	0.56 ft
Luminous Height	0.00 ft

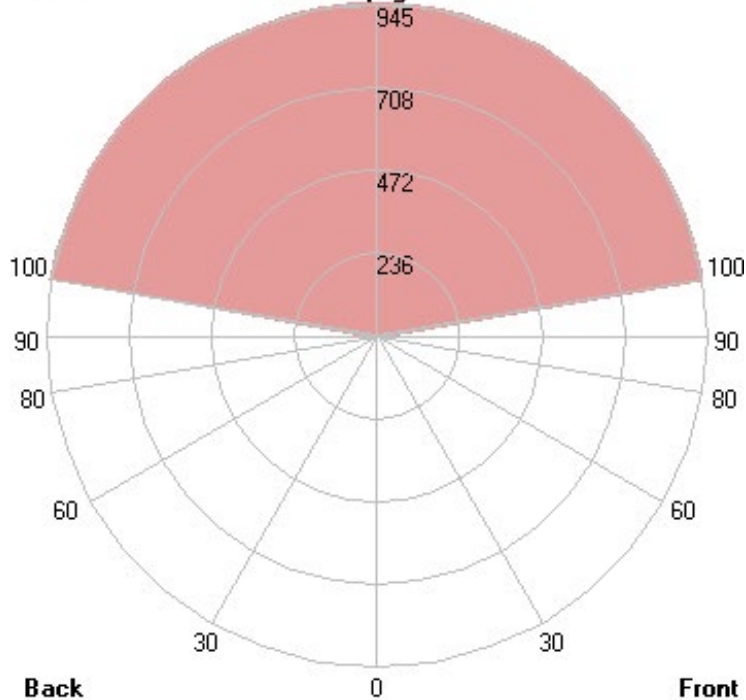
Lum. Classification System (LCS)

LCS	Zone	Lumens	%Lamp	%Lum
FL	(0-30)	0.0	N.A.	0.0
FM	(30-60)	0.0	N.A.	0.0
FH	(60-80)	0.0	N.A.	0.0
FVH	(80-90)	< 0.05	N.A.	0.0
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)	< 0.05	N.A.	0.0
UL	(90-100)	8.0	N.A.	0.8
UH	(100-180)	944.6	N.A.	99.2
Total		952.6	N.A.	100.0
BUG Rating	B0-U4-G0			



Luminaire Lumens

Uplight



Ceiling Height: 10 ft

Grid Spacing: 5ft.

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

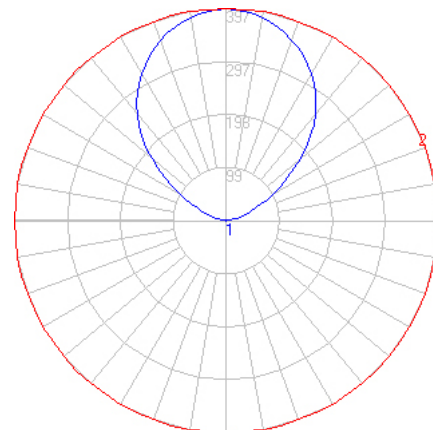
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BEGA

File: 50180K3_BEGA_IES.ies

TEST: BE_50180K4
TEST LAB: BEGA
DATE: 07/31/2017
LUMINAIRE: 50 180K3
LAMP: 10.5W LED

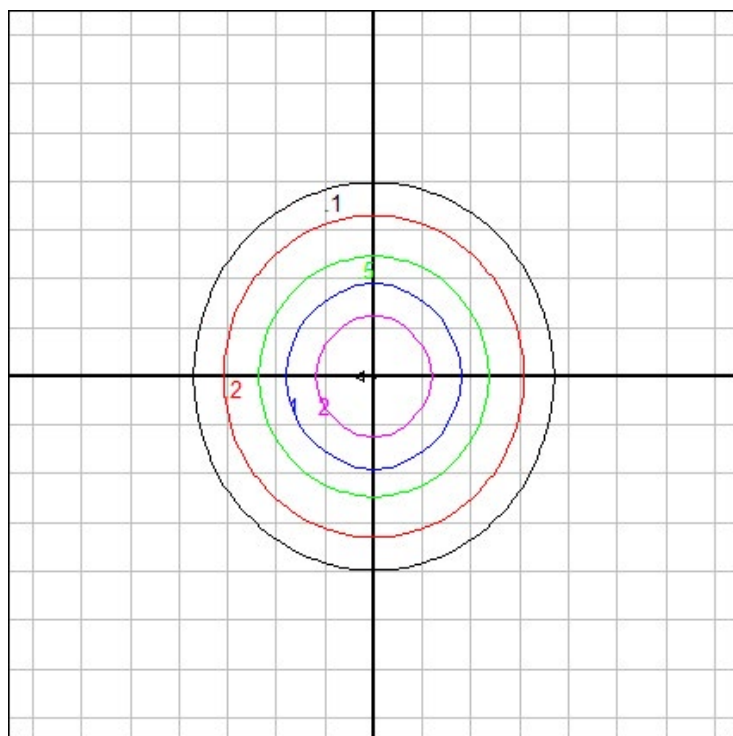


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	936
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	12
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.26 ft
Luminous Width (90-270)	0.56 ft
Luminous Height	0.00 ft

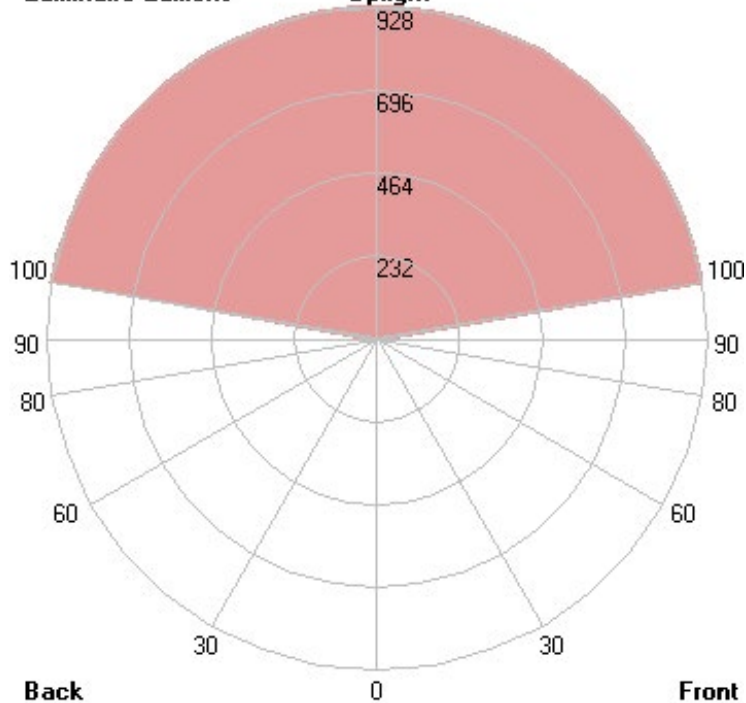
Lum. Classification System (LCS)

LCS	Zone	Lumens	%Lamp	%Lum
FL	(0-30)	0.0	N.A.	0.0
FM	(30-60)	0.0	N.A.	0.0
FH	(60-80)	0.0	N.A.	0.0
FVH	(80-90)	< 0.05	N.A.	0.0
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)	< 0.05	N.A.	0.0
UL	(90-100)	7.9	N.A.	0.8
UH	(100-180)	928.3	N.A.	99.2
Total		936.2	N.A.	100.0
BUG Rating	B0-U4-G0			



Luminaire Lumens

Uplight



Ceiling Height: 10 ft

Grid Spacing: 5ft.

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

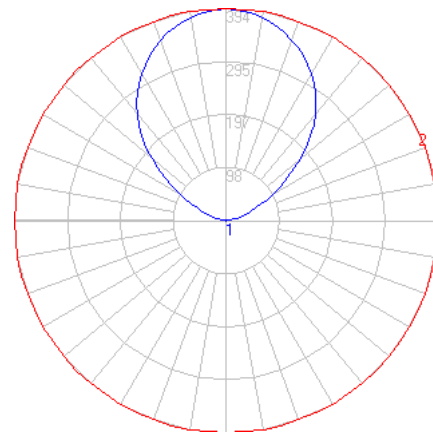
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BEGA

File: 50180K27_BEGA_IES.ies

TEST: BE_50180K4
TEST LAB: BEGA
DATE: 07/31/2017
LUMINAIRE: 50 180K27
LAMP: 10.5W LED

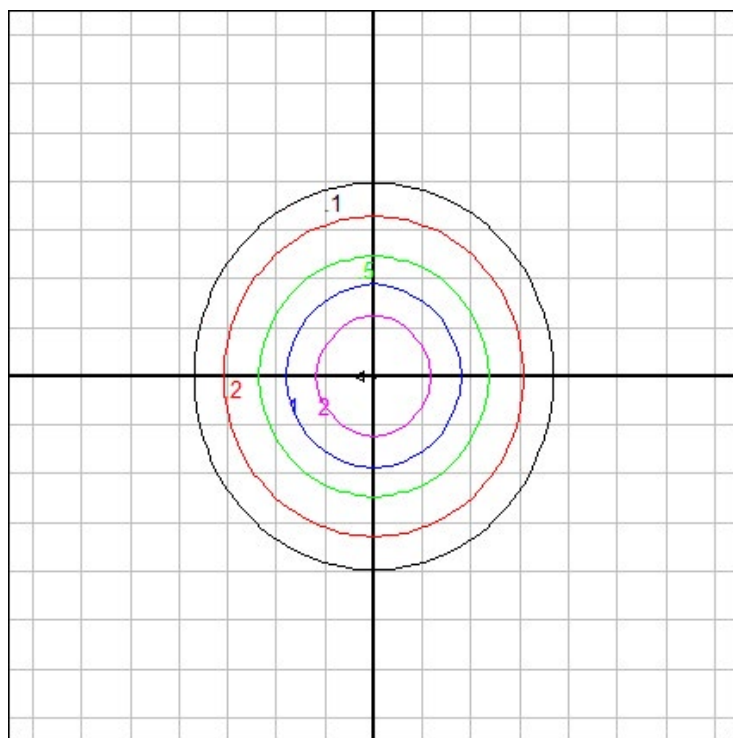


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	929
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	12
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.26 ft
Luminous Width (90-270)	0.56 ft
Luminous Height	0.00 ft

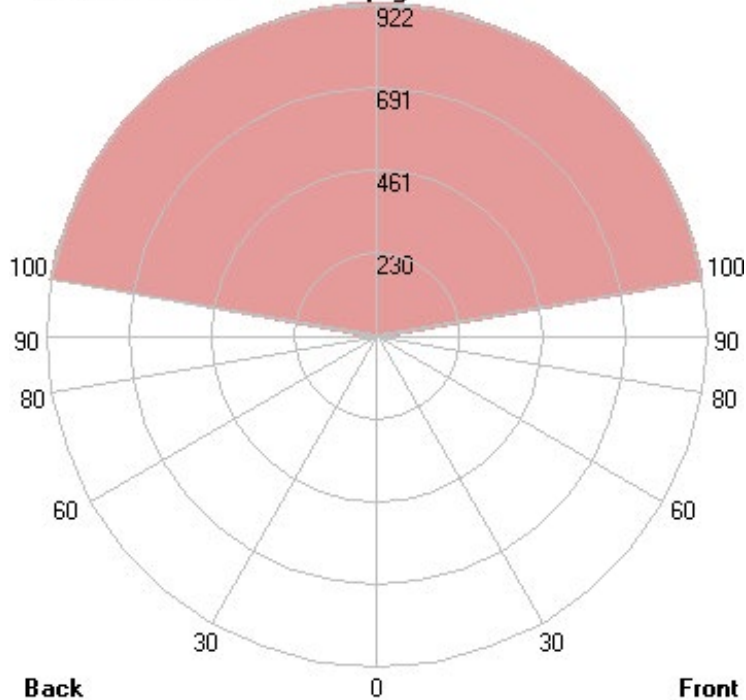
Lum. Classification System (LCS)

LCS	Zone	Lumens	%Lamp	%Lum
FL	(0-30)	0.0	N.A.	0.0
FM	(30-60)	0.0	N.A.	0.0
FH	(60-80)	0.0	N.A.	0.0
FVH	(80-90)	< 0.05	N.A.	0.0
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)	< 0.05	N.A.	0.0
UL	(90-100)	7.8	N.A.	0.8
UH	(100-180)	921.5	N.A.	99.2
Total		929.3	N.A.	100.0
BUG Rating	B0-U4-G0			



Luminaire Lumens

Uplight



Ceiling Height: 10 ft

Grid Spacing: 5ft.

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