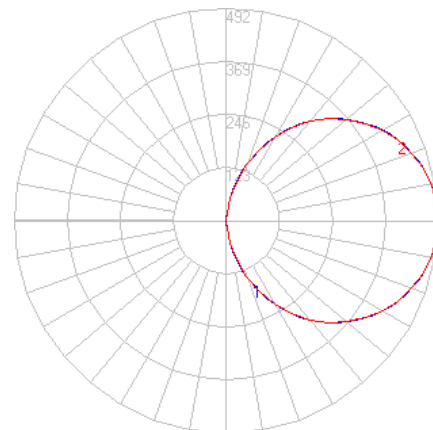


# BEGA

File: 24013K4\_BEGA\_IES.ies

TEST: BE\_24013K4  
 TEST LAB: BEGA  
 DATE: 4/13/2016  
 LUMINAIRE: 24 013K4  
 LAMP: 11.5W LED



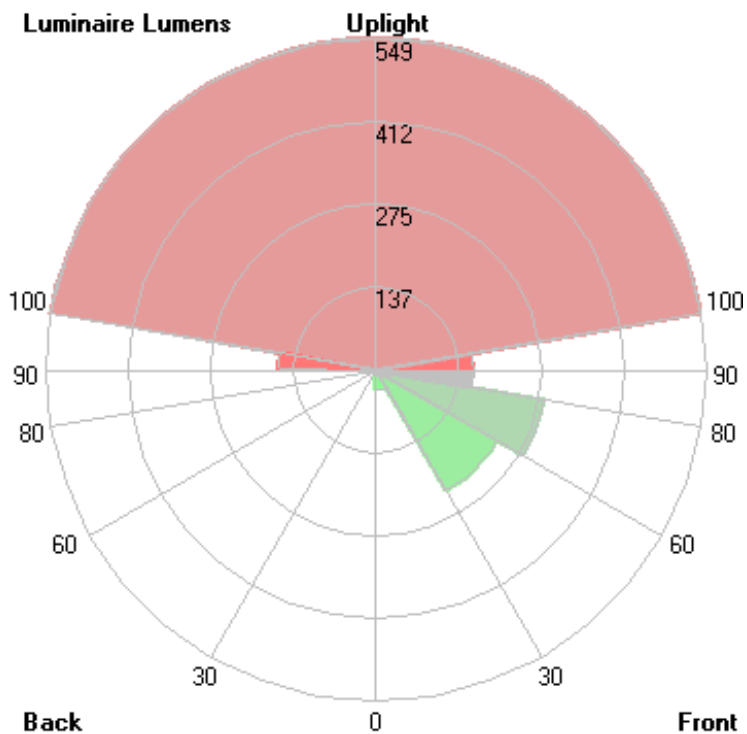
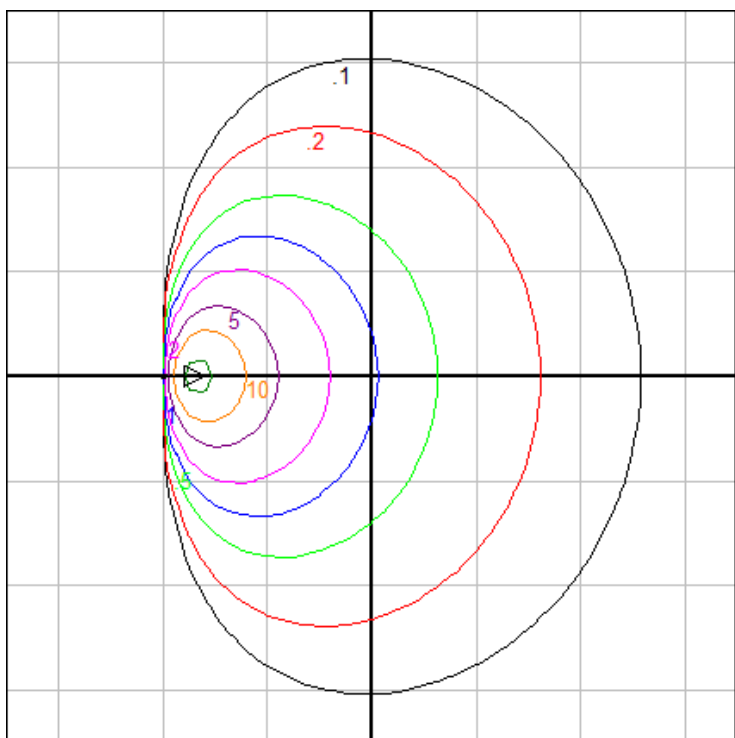
### Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1422
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	0.50
Max. Cd.	492 (0H, 90V)
Max. Cd. (<90 Vert.)	491.4 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	492 (34.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	491.4 (34.6%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

### Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	32.9	N.A.	2.3
FM (30-60)	232.5	N.A.	16.3
FH (60-80)	283.8	N.A.	20.0
FVH (80-90)	161.9	N.A.	11.4
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)	161.9	N.A.	11.4
UH (100-180)	549.3	N.A.	38.6
Total	1422.3	N.A.	100.0

**BUG Rating B0-U4-G2**



Mounting Height: 2.5 ft.

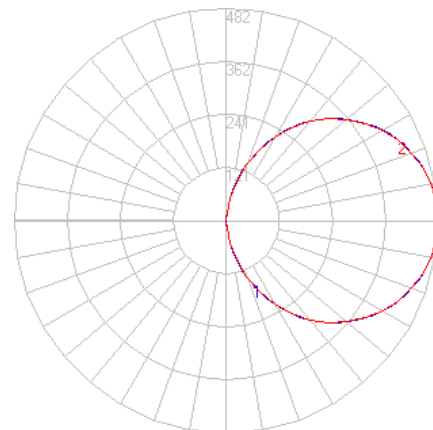
Grid Spacing: 5 ft.

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

# BEGA

File: 24013K35\_BEGA\_IES.ies

TEST: BE\_24013K4  
 TEST LAB: BEGA  
 DATE: 4/13/2016  
 LUMINAIRE: 24 013K35  
 LAMP: 11.5W LED



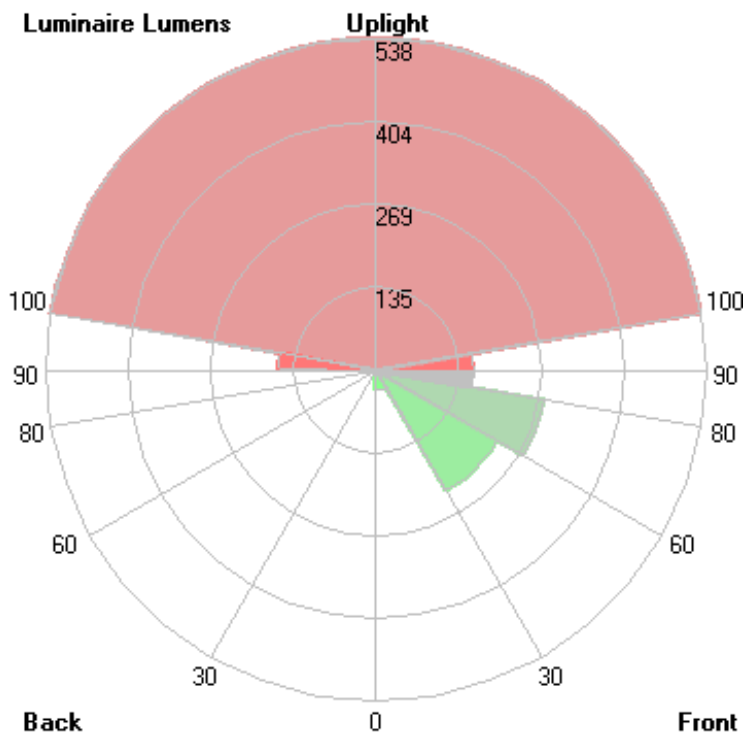
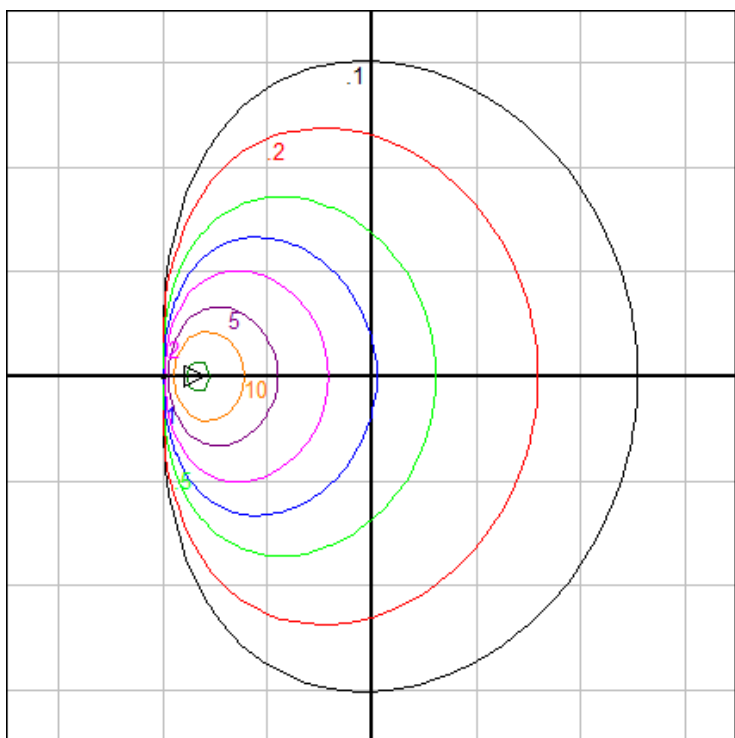
### Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1394
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	482.16 (0H, 90V)
Max. Cd. (<90 Vert.)	481.572 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	482.16 (34.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	481.572 (34.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

### Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	32.3	N.A.	2.3
FM (30-60)	227.9	N.A.	16.3
FH (60-80)	278.2	N.A.	20.0
FVH (80-90)	158.7	N.A.	11.4
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)	158.7	N.A.	11.4
UH(100-180)	538.3	N.A.	38.6
Total	1394.1	N.A.	100.0

**BUG Rating B0-U4-G2**



Mounting Height: 2.5 ft.

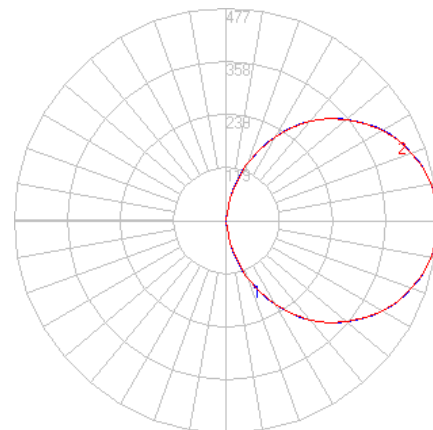
Grid Spacing: 5 ft.

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

# BEGA

File: 24013K3\_BEGA\_IES.ies

TEST: BE\_24013K4  
 TEST LAB: BEGA  
 DATE: 4/13/2016  
 LUMINAIRE: 24 013K3  
 LAMP: 11.5W LED



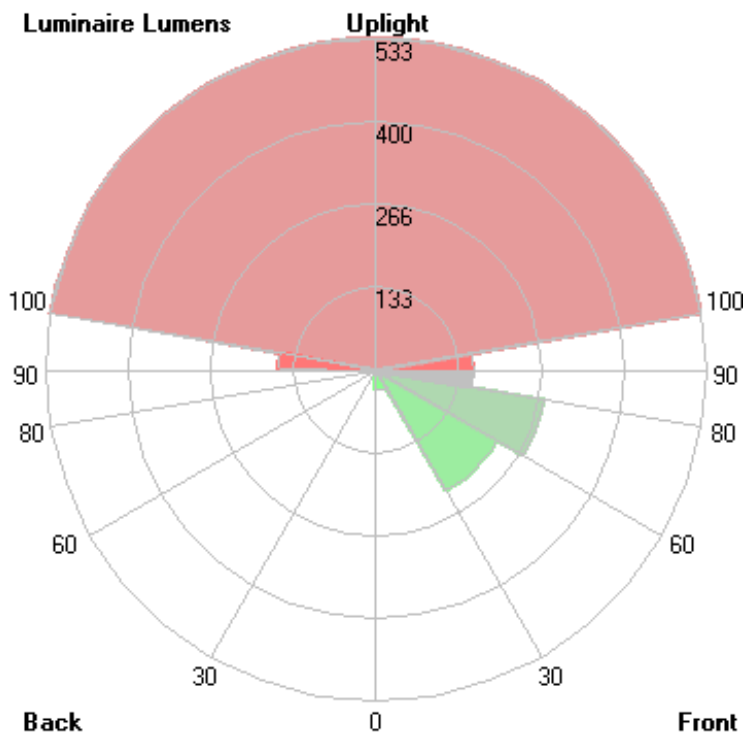
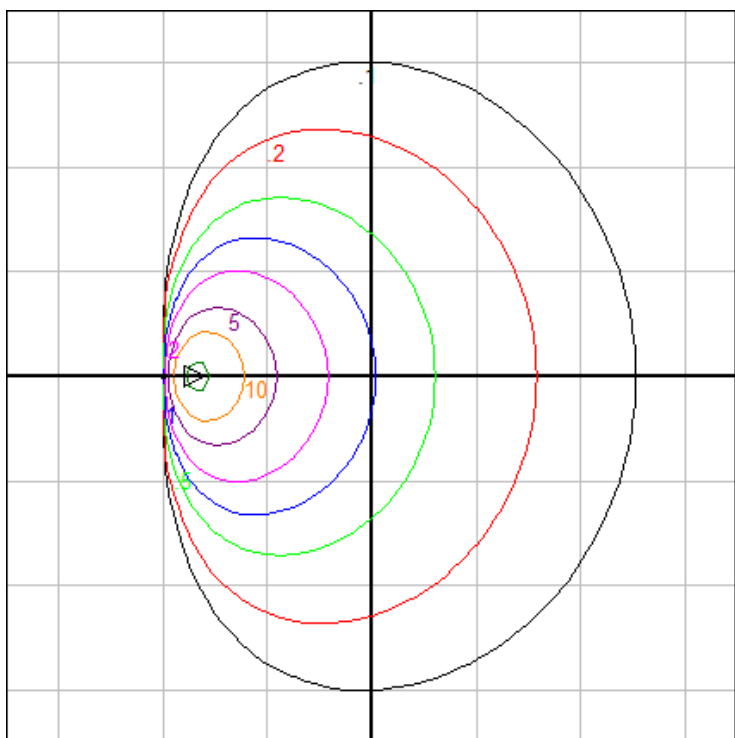
## Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1380
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	0.50
Max. Cd.	477.24 (0H, 90V)
Max. Cd. (<90 Vert.)	476.658 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	477.24 (34.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	476.658 (34.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

## Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	31.9	N.A.	2.3
FM (30-60)	225.5	N.A.	16.3
FH (60-80)	275.3	N.A.	20.0
FVH (80-90)	157.1	N.A.	11.4
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)	157.1	N.A.	11.4
UH (100-180)	532.8	N.A.	38.6
Total	1379.7	N.A.	100.0

**BUG Rating B0-U4-G2**



Mounting Height: 2.5 ft.

Grid Spacing: 5 ft.

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

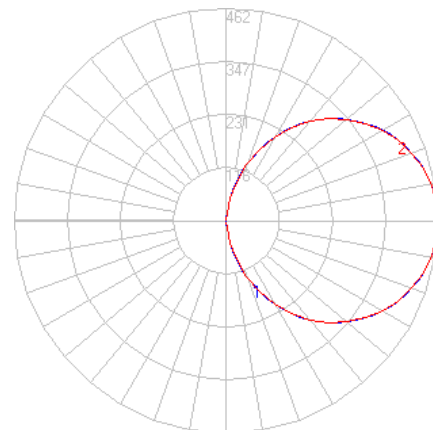
BEGA 1000 Bega Way, Carpinteria, CA 93013 (805)684-0533 Fax (805)566-9474 www.bega-us.com © Copyright BEGA-US 2020

11/5/2020

# BEGA

File: 24013K27\_BEGA\_IES.ies

TEST: BE\_24013K4  
 TEST LAB: BEGA  
 DATE: 4/13/2016  
 LUMINAIRE: 24 013K27  
 LAMP: 11.5W LED



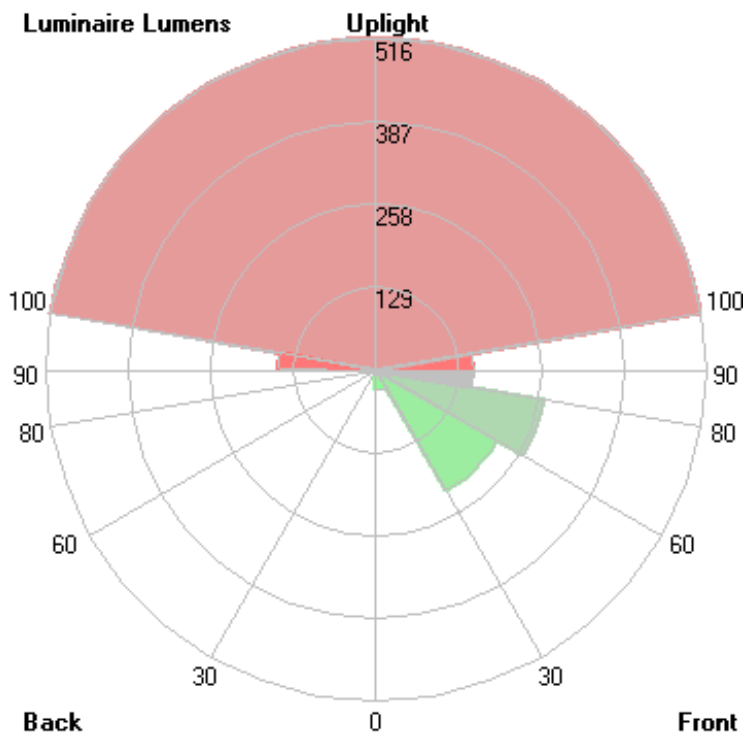
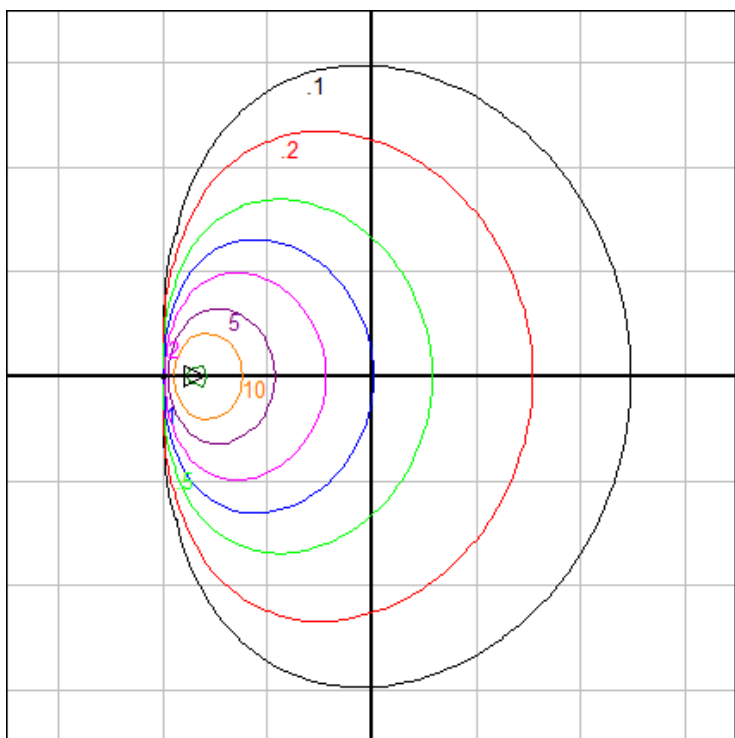
### Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1337
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	462.48 (0H, 90V)
Max. Cd. (<90 Vert.)	461.916 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	462.48 (34.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	461.916 (34.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

### Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	30.9	N.A.	2.3
FM (30-60)	218.6	N.A.	16.3
FH (60-80)	266.8	N.A.	20.0
FVH (80-90)	152.2	N.A.	11.4
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)	152.2	N.A.	11.4
UH (100-180)	516.4	N.A.	38.6
Total	1337.1	N.A.	100.0

**BUG Rating B0-U4-G2**



Mounting Height: 2.5 ft.

Grid Spacing: 5 ft.

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