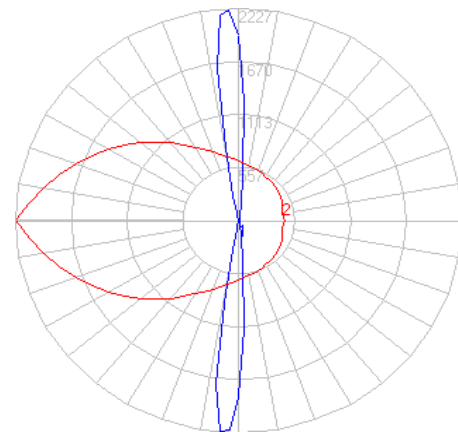


BEGA

File: 24177K4_BEGA_IES.ies

TEST: BE_24177K4
 TEST LAB: BEGA
 DATE: 08/02/2019
 LUMINAIRE: 24177K4
 LAMP: 4.0W LED



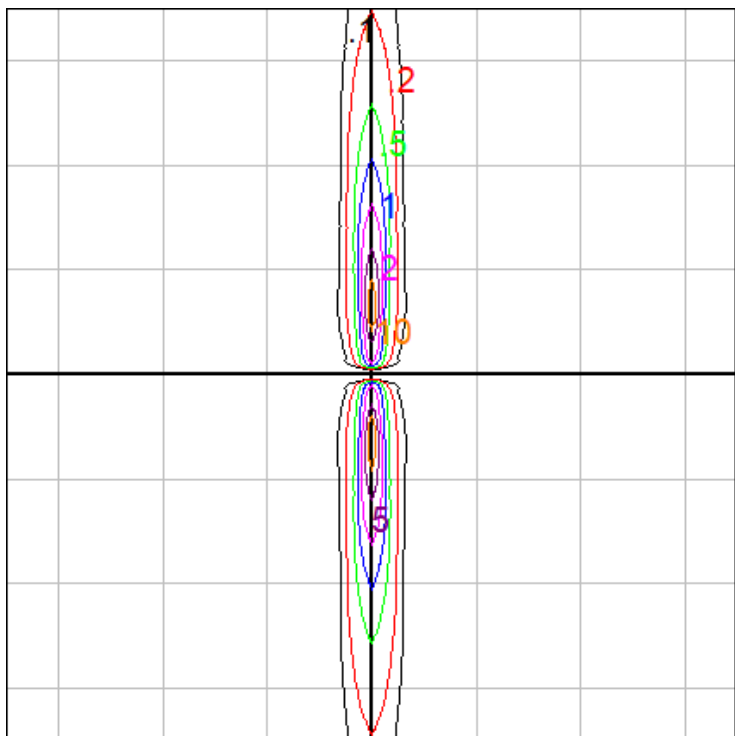
Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	182
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	23
Total Luminaire Watts	8
Ballast Factor	1.00
CIE Type	General Diffuse
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)	0.12 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

Lum. Classification System (LCS)

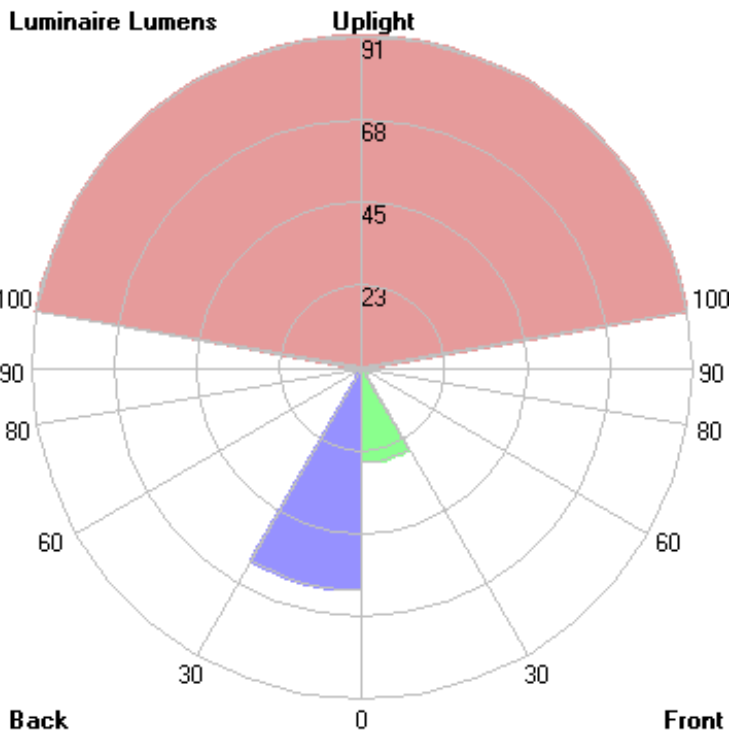
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	25.7	N.A.	14.2
FM (30-60)	1.7	N.A.	0.9
FH (60-80)	0.2	N.A.	0.1
FVH(80-90)	< 0.05	N.A.	0.0
BL (0-30)	60.8	N.A.	33.5
BM (30-60)	2.3	N.A.	1.3
BH (60-80)	0.3	N.A.	0.1
BVH(80-90)	< 0.05	N.A.	0.0
UL (90-100)	< 0.05	N.A.	0.0
UH (100-180)	90.5	N.A.	49.9
Total	181.5	N.A.	100.0

BUG Rating B0-U3-G0



Grid Spacing: 5 ft.

Isofootcandle grid on wall

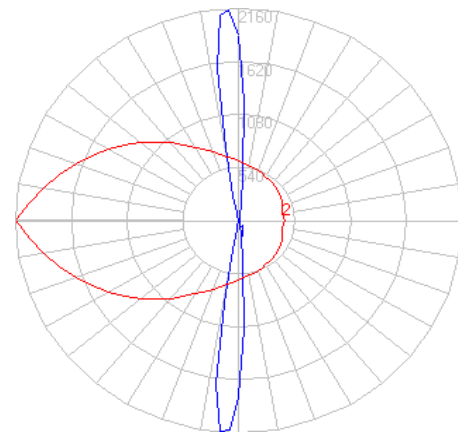


In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

BEGA

File: 24177K35_BEGA_IES.ies

TEST: BE_24177K4
 TEST LAB: BEGA
 DATE: 08/02/2019
 LUMINAIRE: 24177K35
 LAMP: 4.0W LED



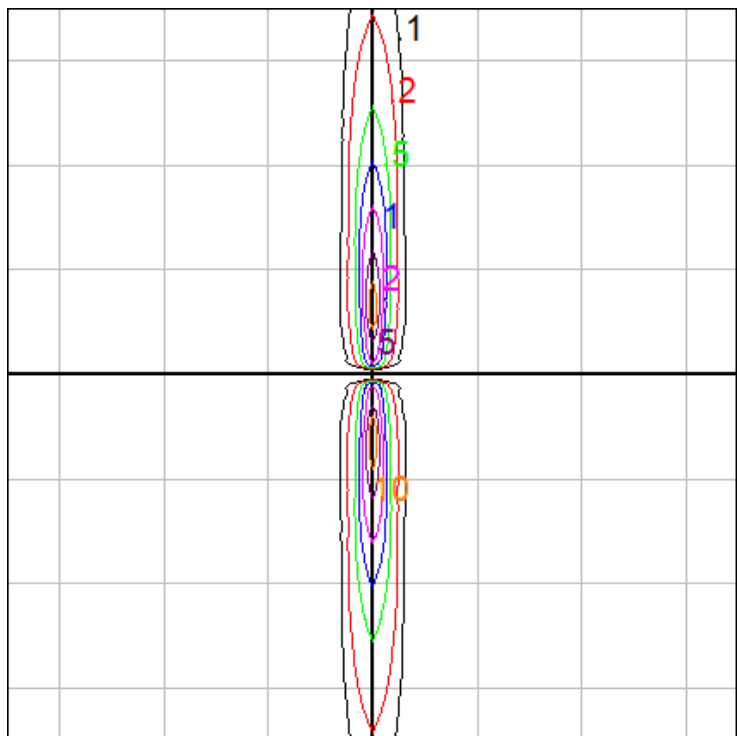
Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	176
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	22
Total Luminaire Watts	8
Ballast Factor	1.00
CIE Type	General Diffuse
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)	0.12 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

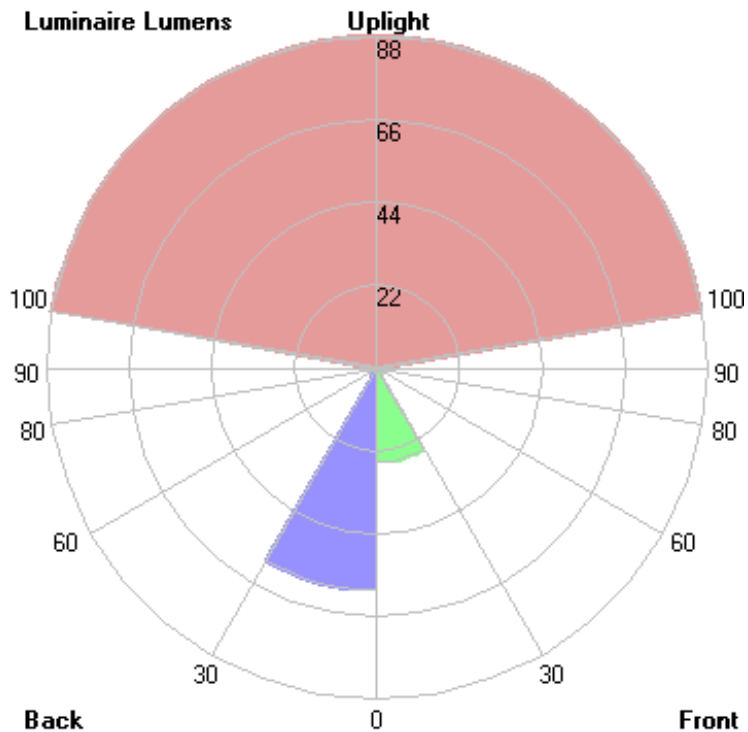
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	25.0	N.A.	14.2
FM (30-60)	1.7	N.A.	0.9
FH (60-80)	0.2	N.A.	0.1
FVH(80-90)	< 0.05	N.A.	0.0
BL (0-30)	59.0	N.A.	33.5
BM (30-60)	2.2	N.A.	1.3
BH (60-80)	0.3	N.A.	0.1
BVH(80-90)	< 0.05	N.A.	0.0
UL (90-100)	< 0.05	N.A.	0.0
UH (100-180)	87.8	N.A.	49.8
Total	176.2	N.A.	100.0

BUG Rating B0-U3-G0



Grid Spacing: 5 ft. Isofootcandle grid on wall

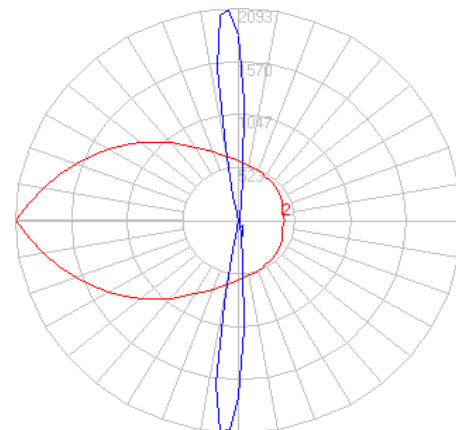


In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

BEGA

File: 24177K3_BEGA_IES.ies

TEST: BE_24177K4
 TEST LAB: BEGA
 DATE: 08/02/2019
 LUMINAIRE: 24177K3
 LAMP: 4.0W LED



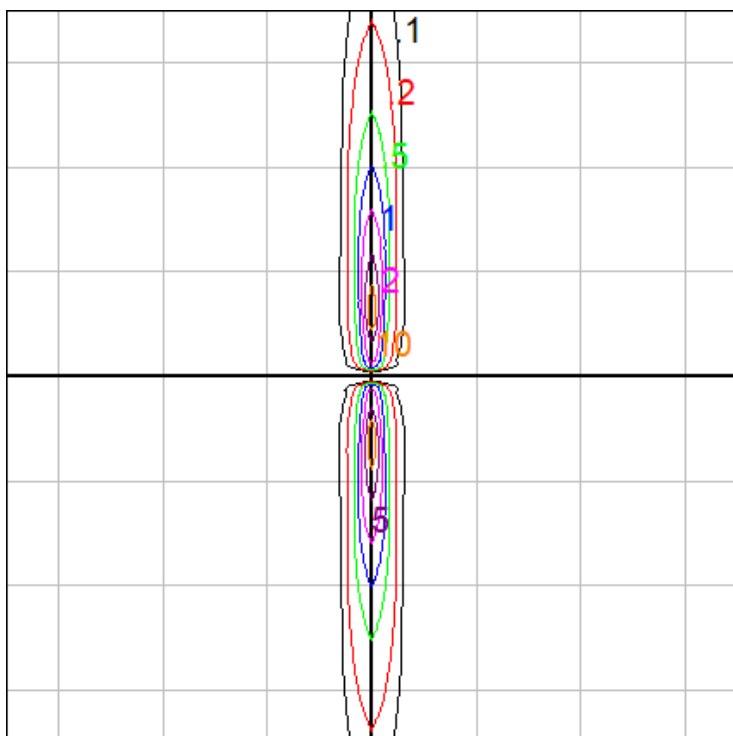
Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	171
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	21
Total Luminaire Watts	8
Ballast Factor	1.00
CIE Type	General Diffuse
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)	0.12 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

Lum. Classification System (LCS)

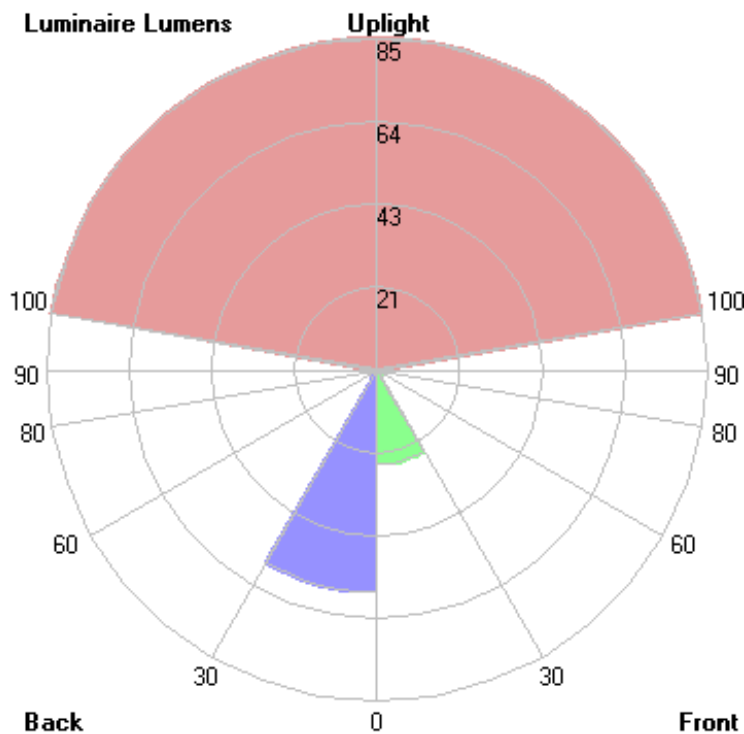
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	24.2	N.A.	14.2
FM (30-60)	1.6	N.A.	0.9
FH (60-80)	0.2	N.A.	0.1
FVH(80-90)	< 0.05	N.A.	0.0
BL (0-30)	57.2	N.A.	33.5
BM (30-60)	2.2	N.A.	1.3
BH (60-80)	0.2	N.A.	0.1
BVH(80-90)	< 0.05	N.A.	0.0
UL (90-100)	< 0.05	N.A.	0.0
UH (100-180)	85.1	N.A.	49.9
Total	170.7	N.A.	100.0

BUG Rating B0-U3-G0



Grid Spacing: 5 ft.

Isofootcandle grid on wall

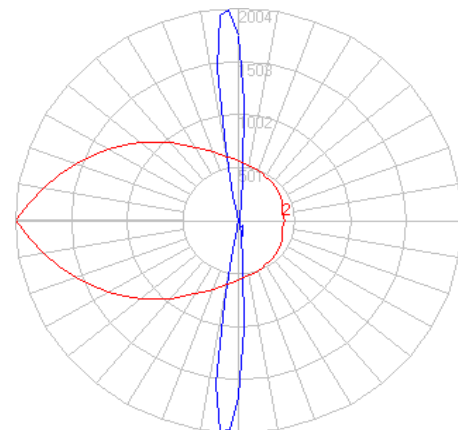


In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

BEGA

File: 24177K27_BEGA_IES.ies

TEST: BE_24177K4
 TEST LAB: BEGA
 DATE: 08/02/2019
 LUMINAIRE: 24177K27
 LAMP: 4.0W LED



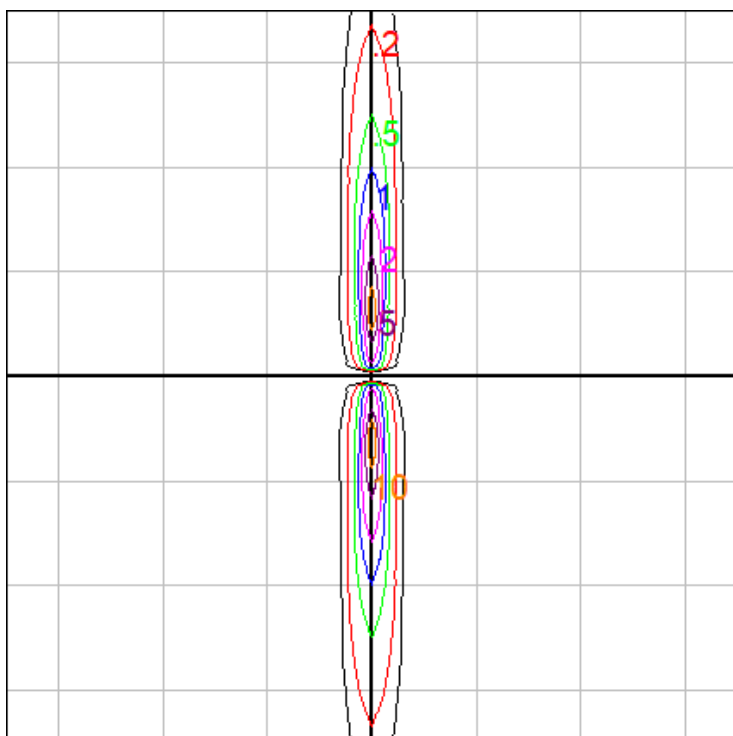
Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	163
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	20
Total Luminaire Watts	8
Ballast Factor	1.00
CIE Type	General Diffuse
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)	0.12 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

Lum. Classification System (LCS)

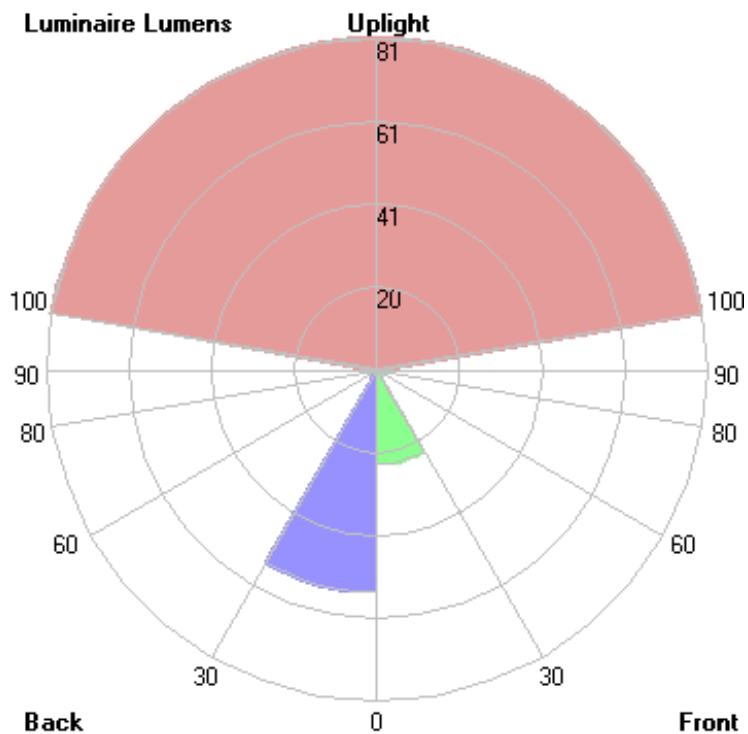
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	23.2	N.A.	14.2
FM (30-60)	1.6	N.A.	0.9
FH (60-80)	0.2	N.A.	0.1
FVH(80-90)	< 0.05	N.A.	0.0
BL (0-30)	54.7	N.A.	33.5
BM (30-60)	2.1	N.A.	1.3
BH (60-80)	0.2	N.A.	0.1
BVH(80-90)	< 0.05	N.A.	0.0
UL (90-100)	< 0.05	N.A.	0.0
UH (100-180)	81.5	N.A.	49.8
Total	163.5	N.A.	100.0

BUG Rating B0-U3-G0



Grid Spacing: 5 ft.

Isofootcandle grid on wall



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