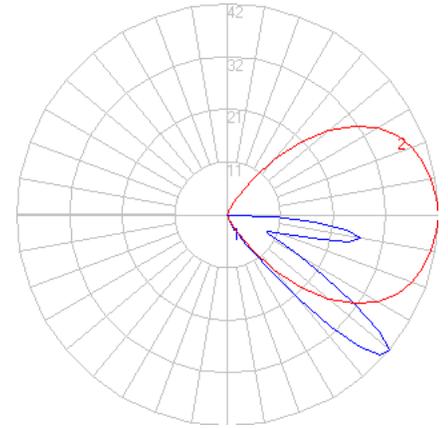
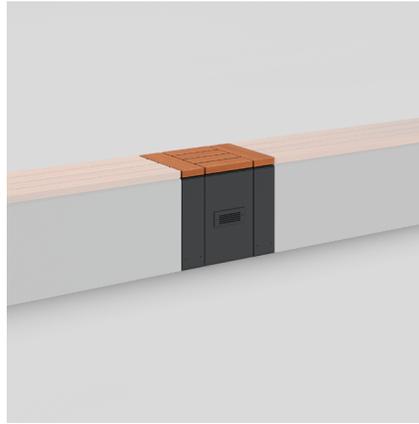


BEGA

File: Modular Furniture_Recessed Vertical_IES.ies

TEST: BE_33017K4
 TEST LAB: BEGA
 DATE: 08/25/2015
 LUMINAIRE: 33 017K3
 LAMP: 2.0W LED

*As seen in short, closed benches within the BEGA Modular Furniture System (i.e. M031)



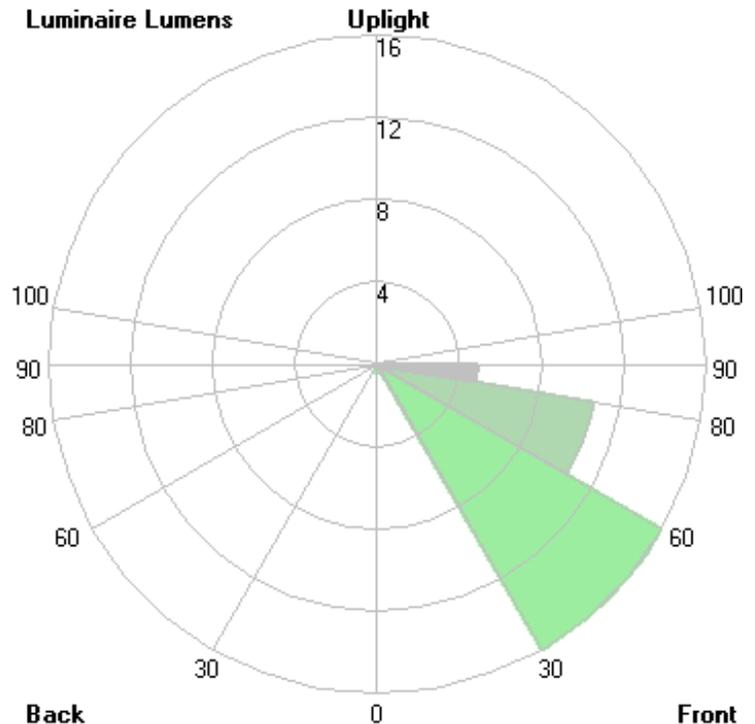
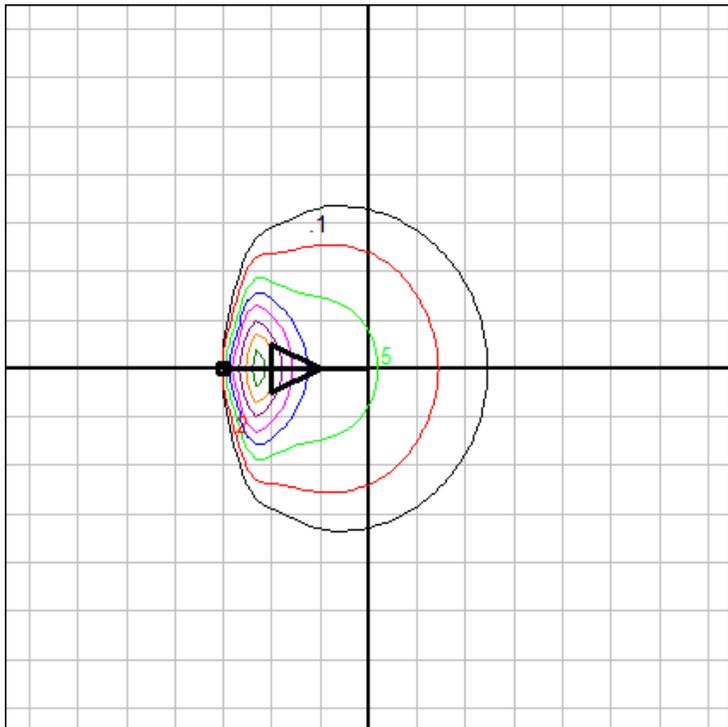
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	31
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	10.3
Total Luminaire Watts	3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	42.4 (0H, 50V)
Max. Cd. (<90 Vert.)	42.4 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	27 (87.1%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	0.5	N.A.	1.5
FM (30-60)	15.7	N.A.	49.8
FH (60-80)	10.5	N.A.	33.2
FVH (80-90)	4.8	N.A.	15.3
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)	0.0	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	31.5	N.A.	100.0

BUG Rating B0-U0-G0



Mounting Height: .7 ft.
 (Standard height on modular bench seat)

Grid Spacing: 1 ft.

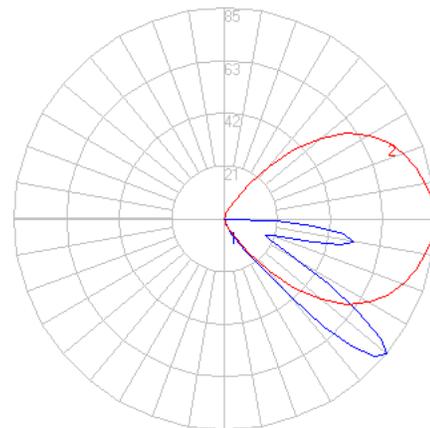
In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

BEGA

File: Modular Furniture_Recessed Vertical_IES.ies

TEST: BE_33019K4
 TEST LAB: BEGA
 DATE: 09/01/2015
 LUMINAIRE: 33 019K3
 LAMP: 3.8W LED

*As seen in medium, closed benches within the BEGA Modular Furniture System (i.e. M033).



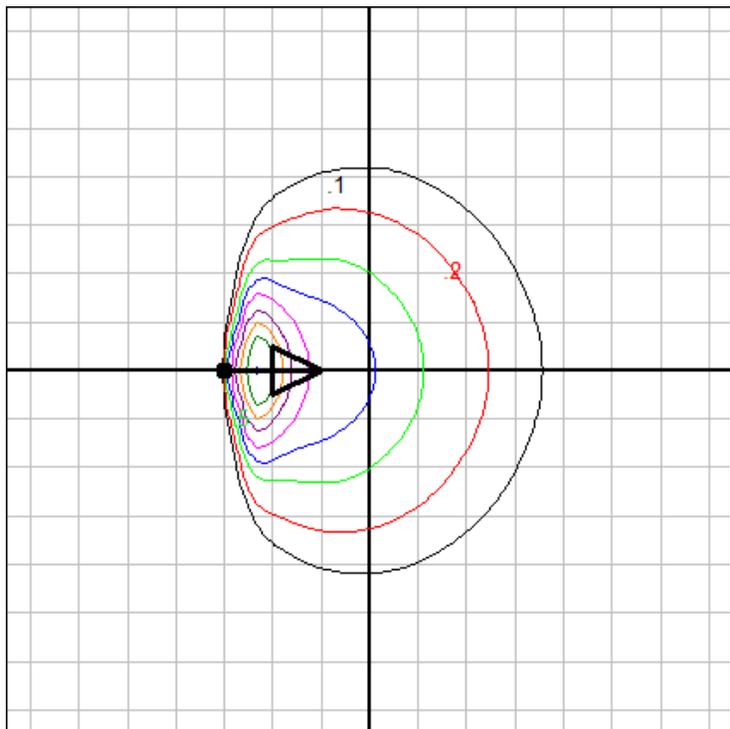
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	63
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	12.6
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	84.6 (0H, 50V)
Max. Cd. (<90 Vert.)	84.6 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	52.4 (83.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

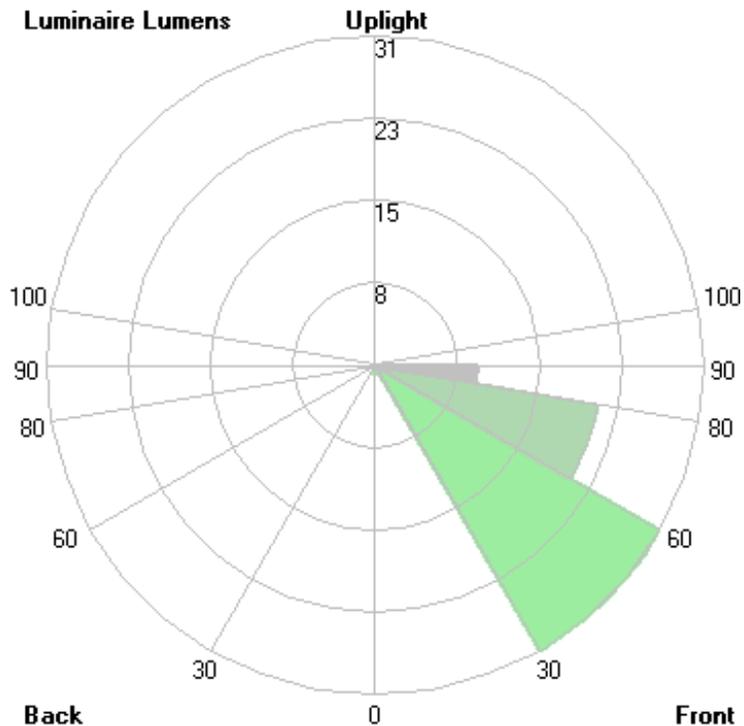
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	0.9	N.A.	1.4
FM (30-60)	30.9	N.A.	49.2
FH (60-80)	21.2	N.A.	33.8
FVH (80-90)	9.7	N.A.	15.4
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	N.A.	0.0
BH (60-80)	0.0	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	62.7	N.A.	100.0

BUG Rating B0-U0-G0



Mounting Height: .7 ft.
 (Standard height on modular bench seat)

Grid Spacing: 1 ft.



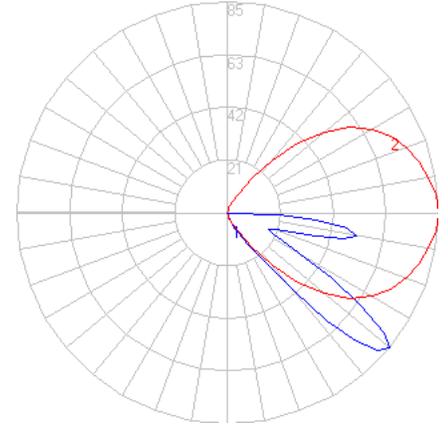
In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

BEGA

File: Modular Furniture_Recessed Vertical_IES.ies

TEST: BE_33019K4
 TEST LAB: BEGA
 DATE: 09/01/2015
 LUMINAIRE: 33 019K3
 LAMP: (2X) 3.8W LED

*As seen in long, closed benches within the BEGA Modular Furniture System (i.e. M045)



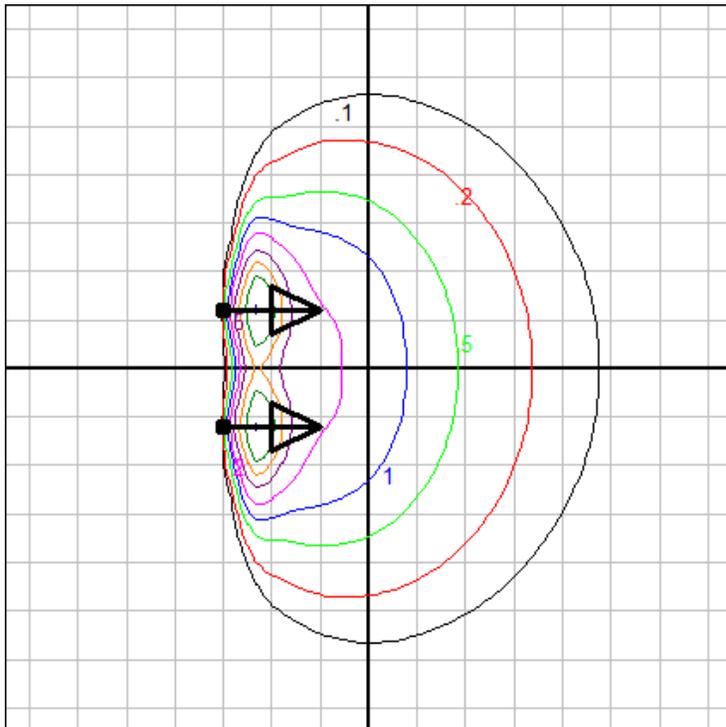
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	125
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	6.3
Total Luminaire Watts	10
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	84.6 (0H, 50V)
Max. Cd. (<90 Vert.)	84.6 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	52.4 (83.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

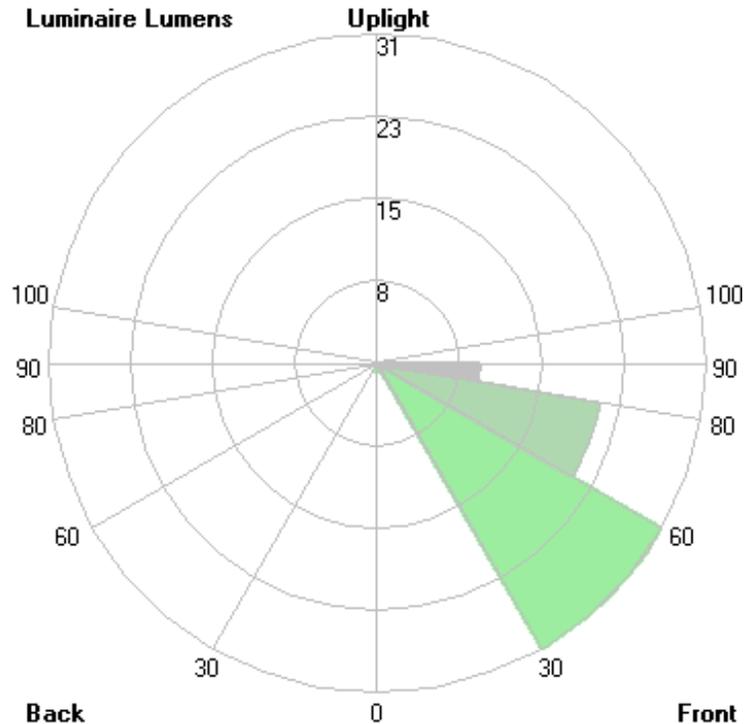
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	1.7	N.A.	1.4
FM (30-60)	61.7	N.A.	49.3
FH (60-80)	42.4	N.A.	33.9
FVH (80-90)	19.3	N.A.	15.4
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	N.A.	0.0
BH (60-80)	0.0	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	125.4	N.A.	100.0

BUG Rating B0-U0-G1



Mounting Height: .7 ft.
 (Standard height on modular bench seat)

Grid Spacing: 1 ft.



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