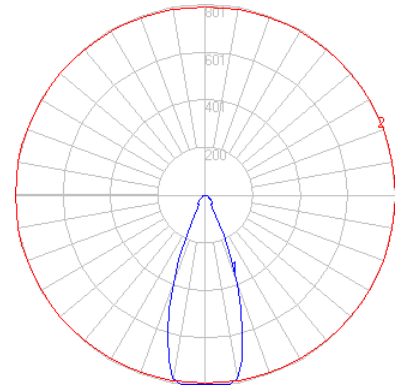


BEGA

File: 84236K4_BEGA_IES.ies

TEST: BE_84236K4
TEST LAB: BEGA
DATE: 02/15/2019
LUMINAIRE: 84 236K4
LAMP: 11.2W LED



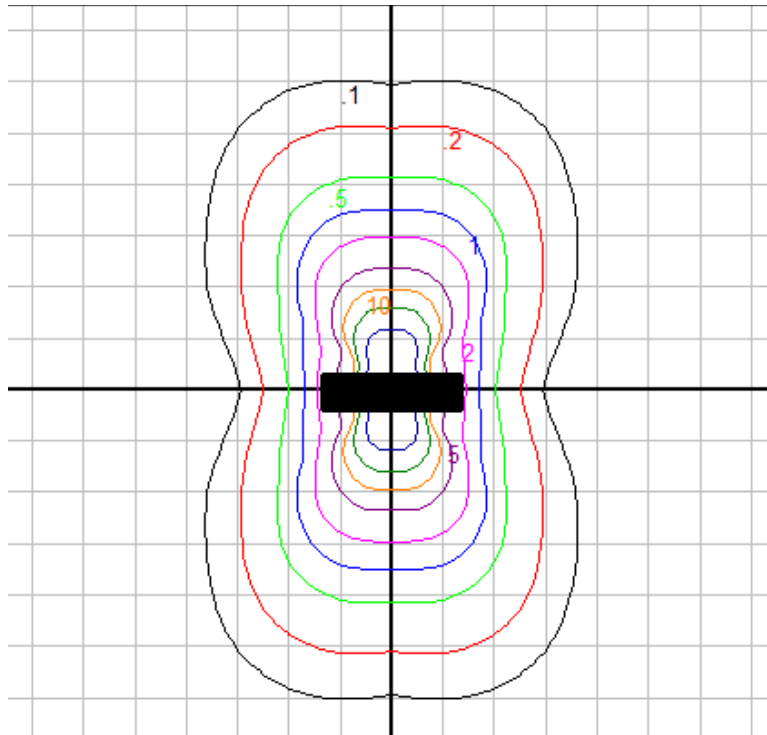
Characteristics

IES Classification	Type I
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1149
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	14
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Max. Cd.	830 (5H, 5V)
Max. Cd. (<90 Vert.)	830 (5H, 5V)
Max. Cd. (At 90 Deg. Vert.)	19.4 (1.7%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	61.2 (5.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

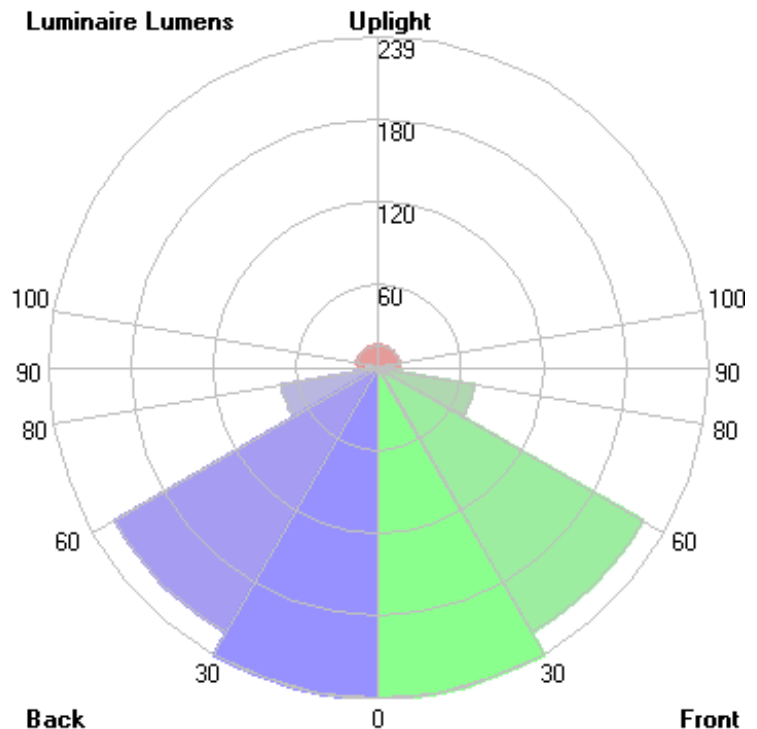
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	248.1	N.A.	21.6
FM (30-60)	229.6	N.A.	20.0
FH (60-80)	73.6	N.A.	6.4
FVH (80-90)	10.2	N.A.	0.9
BL (0-30)	248.1	N.A.	21.6
BM (30-60)	229.6	N.A.	20.0
BH (60-80)	73.6	N.A.	6.4
BVH (80-90)	10.2	N.A.	0.9
UL (90-100)	9.9	N.A.	0.9
UH (100-180)	16.3	N.A.	1.40
Total	1149.2	N.A.	100.0

BUG Rating B1-U2-G0



Grid Spacing: 3 ft.



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

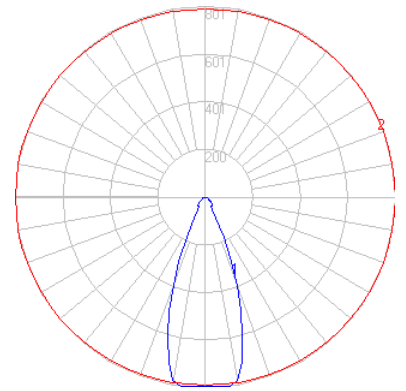
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BEGA

File: 84236K35_BEGA_IES.ies

TEST: BE_84236K4
TEST LAB: BEGA
DATE: 02/15/2019
LUMINAIRE: 84 236K35
LAMP: 11.2W LED



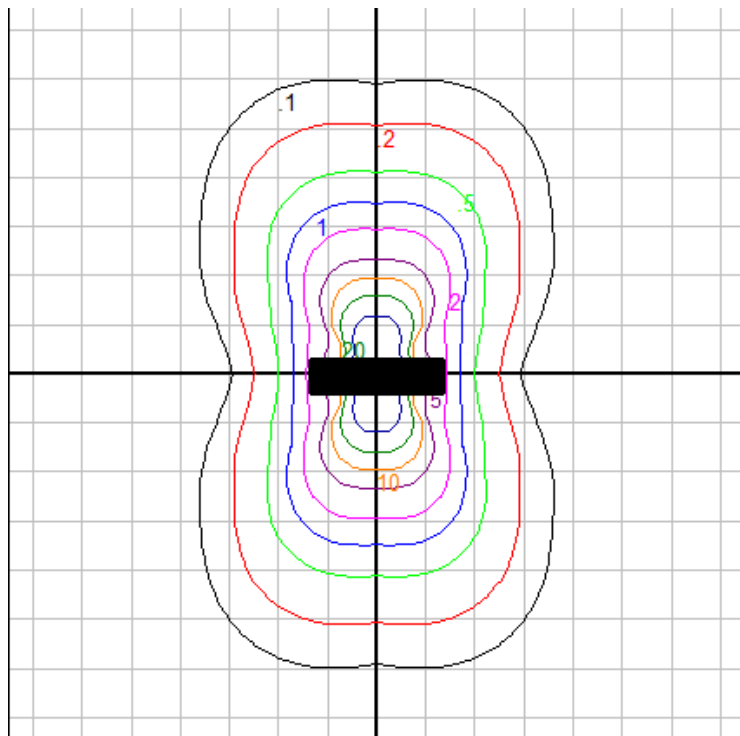
Characteristics

IES Classification	Type I
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1126
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	14
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Max. Cd.	813.4 (5H, 5V)
Max. Cd. (<90 Vert.)	813.4 (5H, 5V)
Max. Cd. (At 90 Deg. Vert.)	19.012 (1.7%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	59.976 (5.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

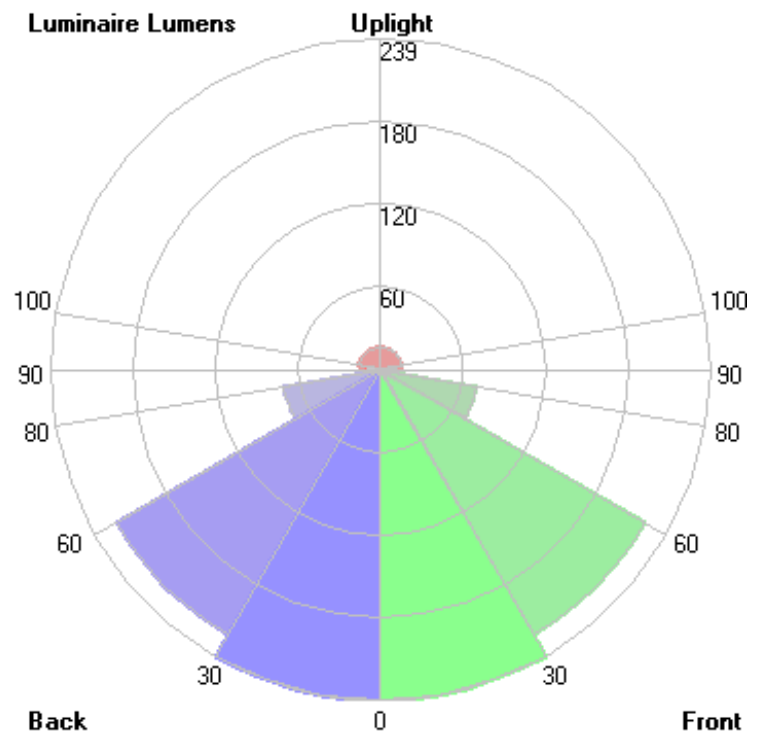
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	243.1	N.A.	21.6
FM (30-60)	225.0	N.A.	20.0
FH (60-80)	72.1	N.A.	6.4
FVH (80-90)	10.0	N.A.	0.9
BL (0-30)	243.1	N.A.	21.6
BM (30-60)	225.0	N.A.	20.0
BH (60-80)	72.1	N.A.	6.4
BVH (80-90)	10.0	N.A.	0.9
UL (90-100)	9.7	N.A.	0.9
UH (100-180)	16.0	N.A.	1.40
Total	1126.1	N.A.	100.0

BUG Rating B1-U2-G0



Grid Spacing: 3 ft.



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

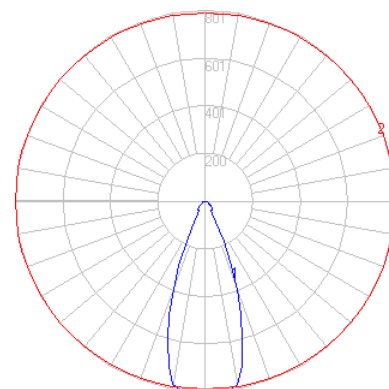
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BEGA

File: 84236K3_BEGA_IES.ies

TEST: BE_84236K4
TEST LAB: BEGA
DATE: 02/15/2019
LUMINAIRE: 84 236K3
LAMP: 11.2W LED



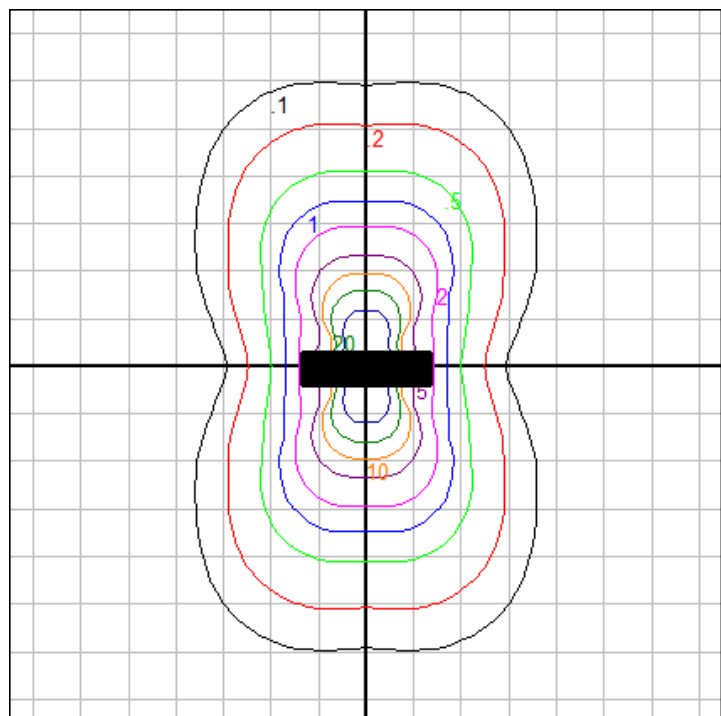
Characteristics

IES Classification	Type I
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1115
Downward Total Efficiency	98 %
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Max. Cd.	801.1 (5H, 5V)
Max. Cd. (<90 Vert.)	801.1 (5H, 5V)
Max. Cd. (At 90 Deg. Vert.)	18.7 (1.7%Lamp)
Max. Cd. (80 to <90 Deg. Vert.)	59.1 (5.3%Lamp)
Cutoff Classification (deprecated)	N.A. (absolute)

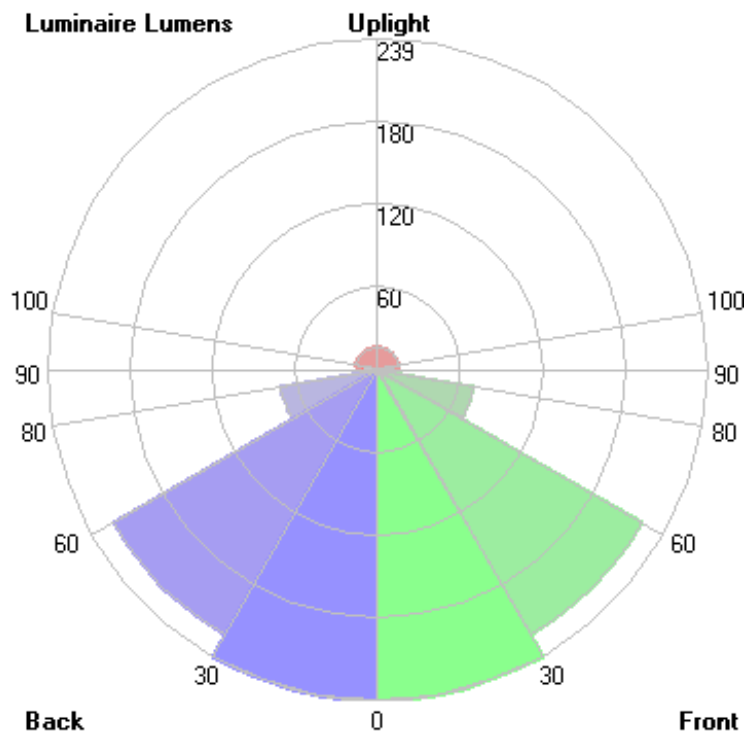
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	240.6	N.A	21.6
FM (30-60)	222.8	N.A	20.0
FH (60-80)	71.4	N.A	6.4
FVH (80-90)	9.9	N.A	0.9
BL (0-30)	240.6	N.A	21.6
BM (30-60)	222.8	N.A	20.0
BH (60-80)	71.4	N.A	6.4
BVH (80-90)	9.9	N.A	0.9
UL (90-100)	9.6	N.A	0.9
UH (100-180)	15.8	N.A	1.40
Total	1114.8	N.A.	100.1

BUG Rating B1-U2-G0



Grid Spacing: 3 ft.



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

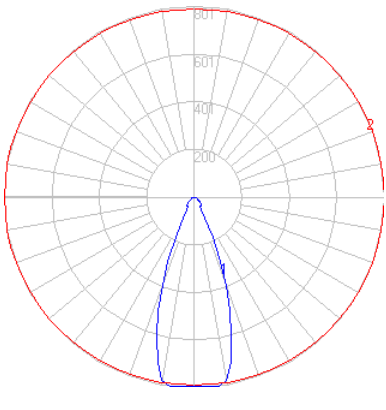
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BEGA

File: 84236K27_BEGA_IES.ies

TEST: BE_84236K4
 TEST LAB: BEGA
 DATE: 02/15/2019
 LUMINAIRE: 84 236K27
 LAMP: 11.2W LED



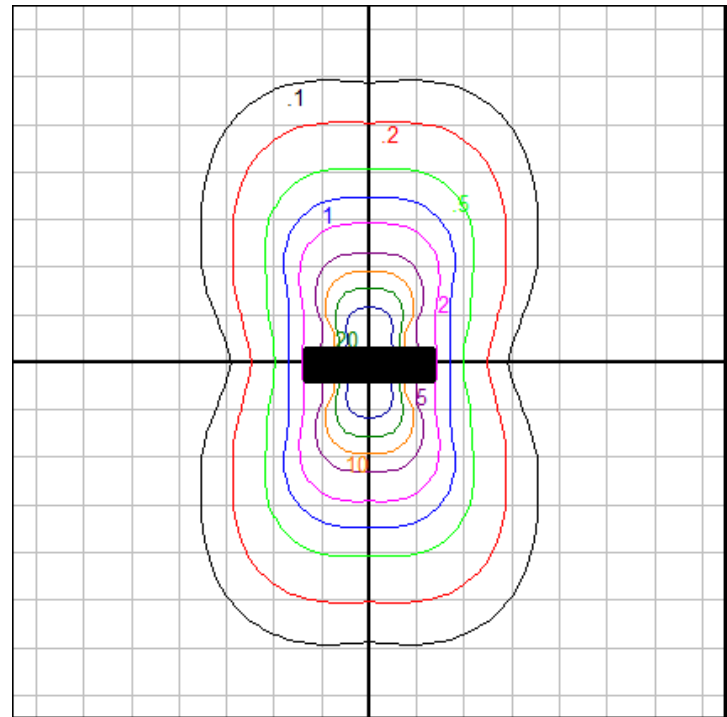
Characteristics

IES Classification	Type I
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1080
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	14
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Max. Cd.	780.2 (5H, 5V)
Max. Cd. (<90 Vert.)	780.2 (5H, 5V)
Max. Cd. (At 90 Deg. Vert.)	18.236 (1.7%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	57.528 (5.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

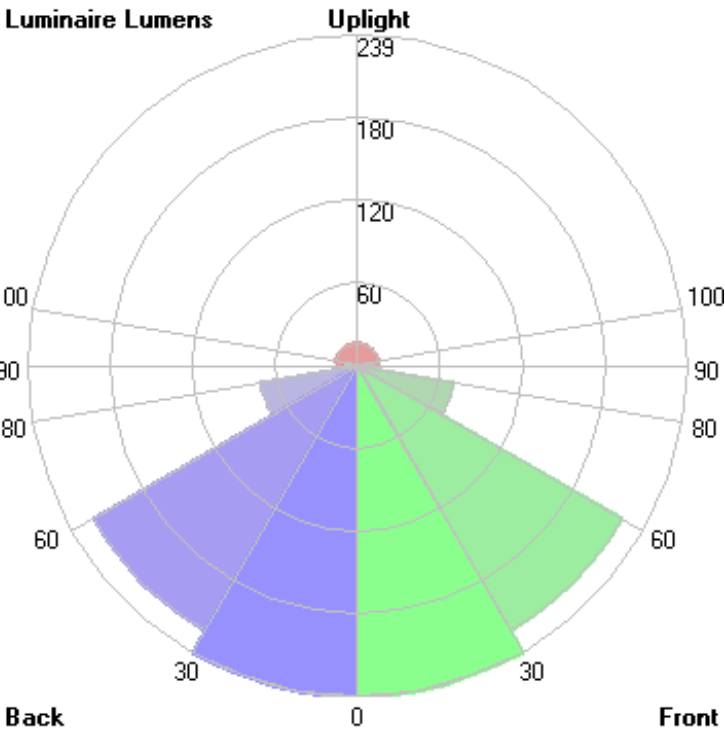
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	240.6	N.A.	21.6
FM (30-60)	222.8	N.A.	20.0
FH (60-80)	71.4	N.A.	6.4
FVH (80-90)	9.9	N.A.	0.9
BL (0-30)	240.6	N.A.	21.6
BM (30-60)	222.8	N.A.	20.0
BH (60-80)	71.4	N.A.	6.4
BVH (80-90)	9.9	N.A.	0.9
UL (90-100)	9.6	N.A.	0.9
UH (100-180)	15.8	N.A.	1.40
Total	1080.5	N.A.	100.0

BUG Rating B1-U2-G0



Grid Spacing: 3 ft.



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