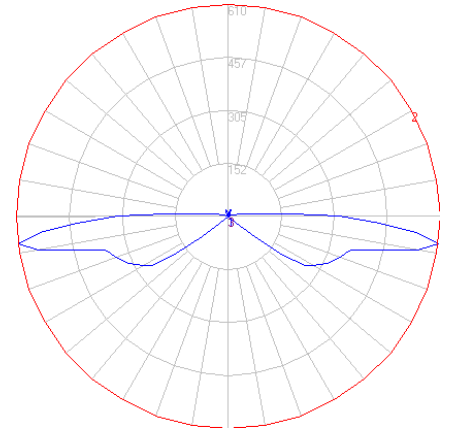


BEGA

File: 84357K4_BEGA_IES.ies

TEST: BEGA_84357K4
TEST LAB: BEGA
DATE: 8/26/2019
LUMINAIRE: 84 357K4
LAMP: 20.0W LED



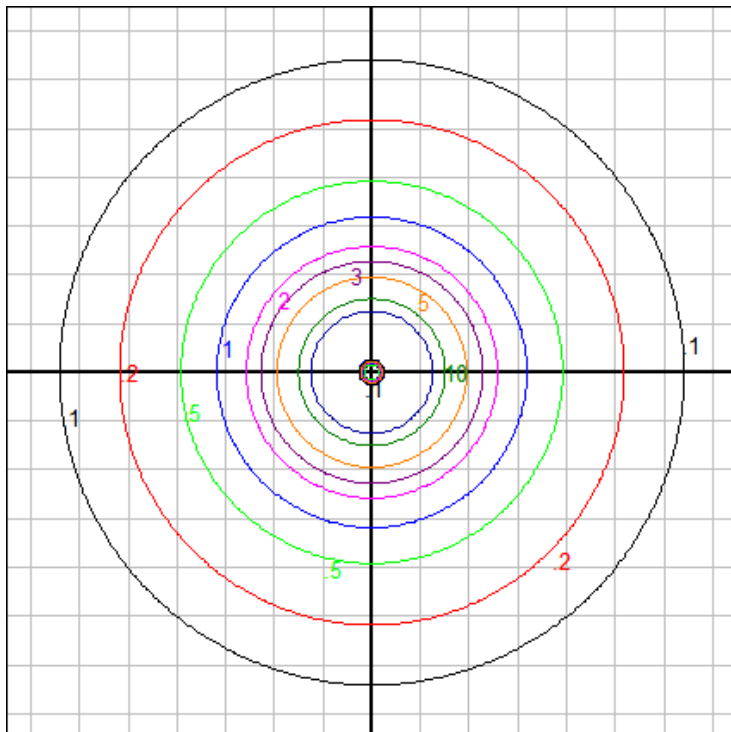
Characteristics

IES Classification	Type V
Longitudinal Classification	Very Long
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1654
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	25
Ballast Factor	1.00
Upward Waste Light Ratio	0.12
Max. Cd.	609.8 (0H, 82.5V)
Max. Cd. (<90 Vert.)	609.8 (0H, 82.5V)
Max. Cd. (At 90 Deg. Vert.)	319.4 (19.3%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	609.8 (36.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

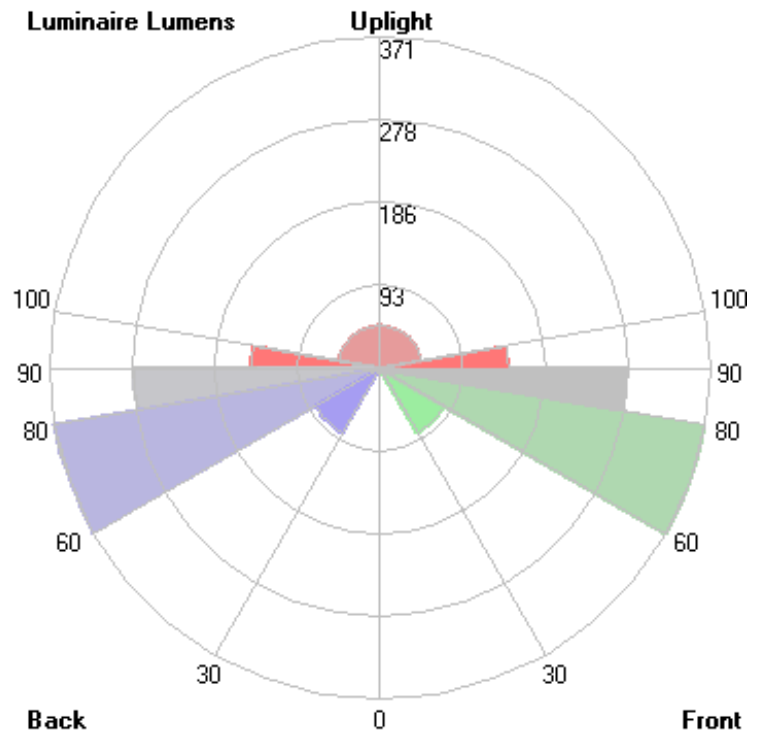
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	0.0	N.A.	0.0
FM (30-60)	84.1	N.A.	5.1
FH (60-80)	371.3	N.A.	22.5
FVH(80-90)	276.0	N.A.	16.7
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	84.1	N.A.	5.1
BH (60-80)	371.3	N.A.	22.5
BVH(80-90)	276.0	N.A.	16.7
UL (90-100)	144.1	N.A.	8.7
UH (100-180)	46.5	N.A.	2.8
Total	1653.4	N.A.	100.0

BUG Rating B1-U3-G3



Grid Spacing: 2 ft.



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

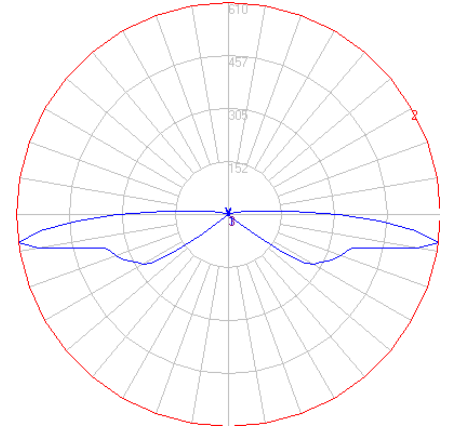
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BEGA

File: 84357K35_BEGA_IES.ies

TEST: BEGA_84357K4
TEST LAB: BEGA
DATE: 8/26/2019
LUMINAIRE: 84 357K35
LAMP: 20.0W LED



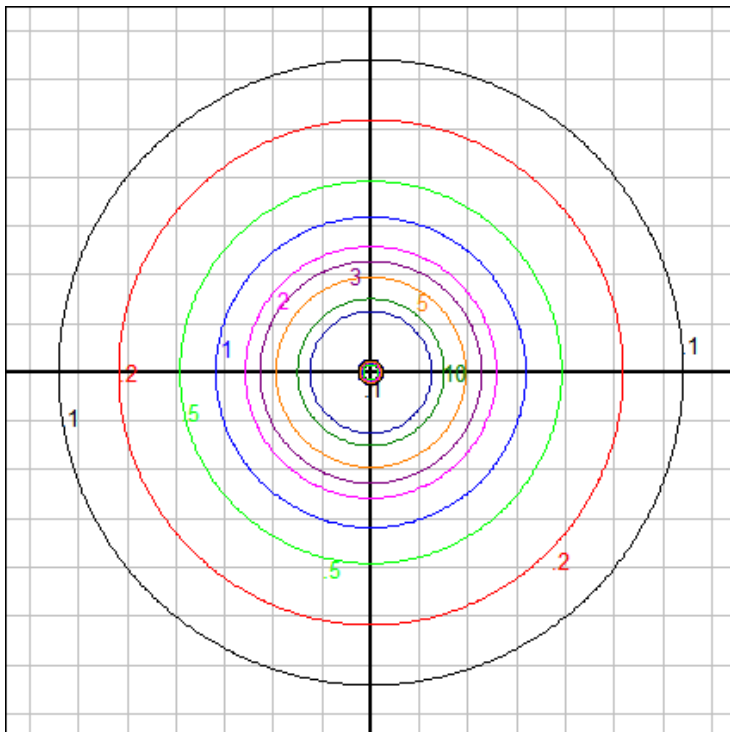
Characteristics

IES Classification	Type V
Longitudinal Classification	Very Long
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1654
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	25
Ballast Factor	1.00
Upward Waste Light Ratio	0.12
Max. Cd.	609.8 (0H, 82.5V)
Max. Cd. (<90 Vert.)	609.8 (0H, 82.5V)
Max. Cd. (At 90 Deg. Vert.)	319.4 (19.3%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	609.8 (36.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

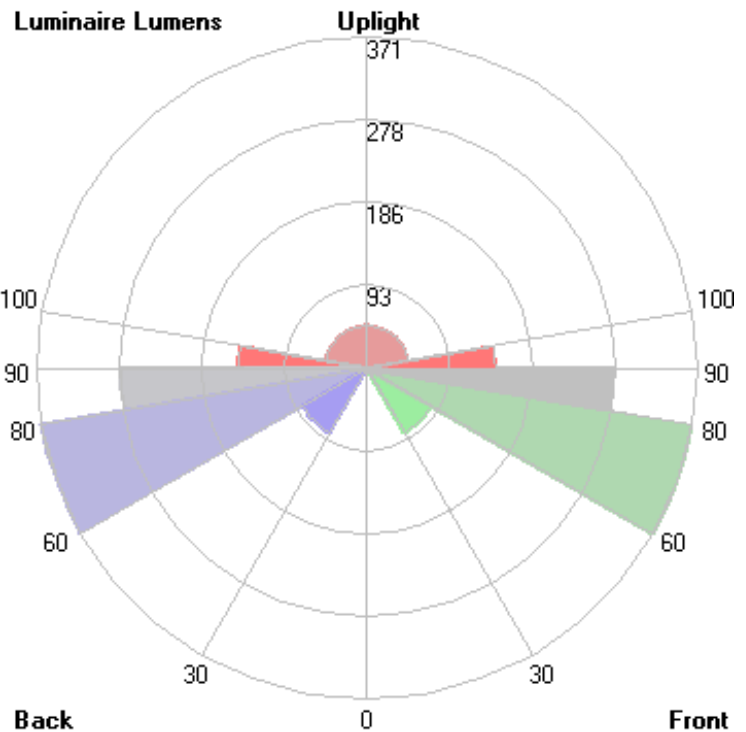
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	0.0	N.A.	0.0
FM (30-60)	84.1	N.A.	5.1
FH (60-80)	371.3	N.A.	22.5
FVH(80-90)	276.0	N.A.	16.7
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	84.1	N.A.	5.1
BH (60-80)	371.3	N.A.	22.5
BVH(80-90)	276.0	N.A.	16.7
UL (90-100)	144.1	N.A.	8.7
UH (100-180)	46.5	N.A.	2.8
Total	1653.4	N.A.	100.0

BUG Rating B1-U3-G3



Grid Spacing: 2 ft.



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

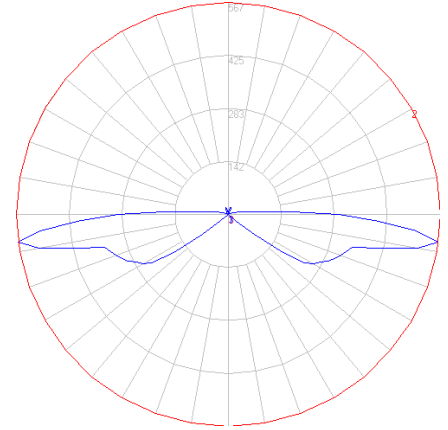
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BEGA

File: 84357K3_BEGA_IES.ies

TEST: BEGA_84357K4
 TEST LAB: BEGA
 DATE: 8/26/2019
 LUMINAIRE: 84 357K3
 LAMP: 20.0W LED



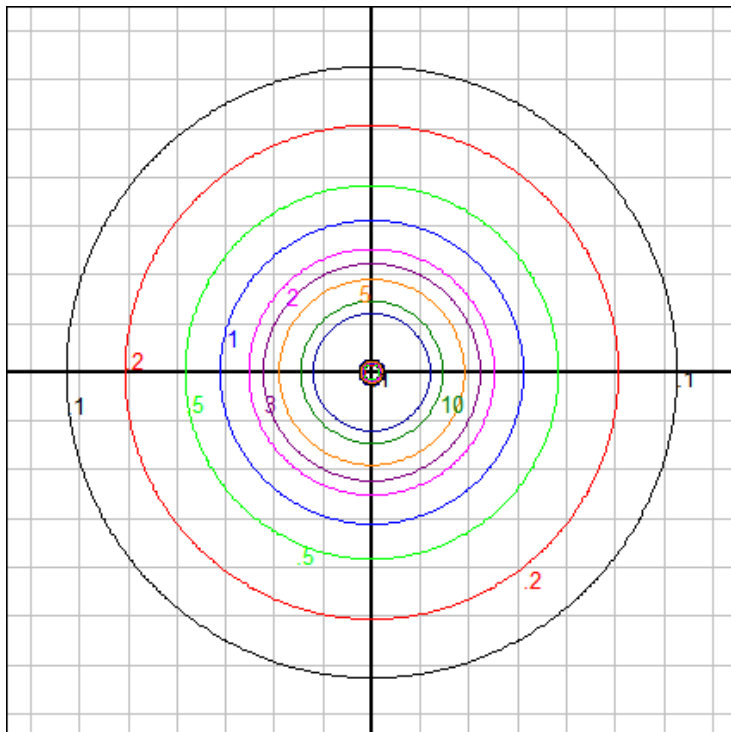
Characteristics

IES Classification	Type V
Longitudinal Classification	Very Long
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1536
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	25
Ballast Factor	1.00
Upward Waste Light Ratio	0.12
Max. Cd.	566.504 (0H, 82.5V)
Max. Cd. (<90 Vert.)	566.504 (0H, 82.5V)
Max. Cd. (At 90 Deg. Vert.)	296.723 (19.3%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	566.504 (36.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

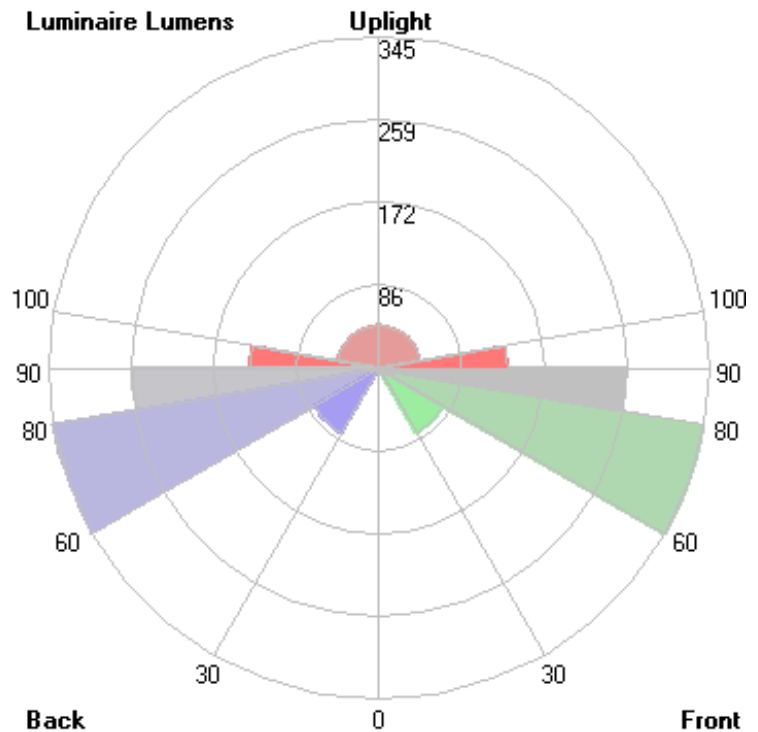
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	0.0	N.A.	0.0
FM (30-60)	78.1	N.A.	5.1
FH (60-80)	344.9	N.A.	22.5
FVH(80-90)	256.4	N.A.	16.7
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	78.1	N.A.	5.1
BH (60-80)	344.9	N.A.	22.5
BVH(80-90)	256.4	N.A.	16.7
UL (90-100)	133.9	N.A.	8.7
UH (100-180)	43.2	N.A.	2.8
Total	1535.9	N.A.	100.0

BUG Rating B1-U3-G3



Grid Spacing: 2 ft.



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

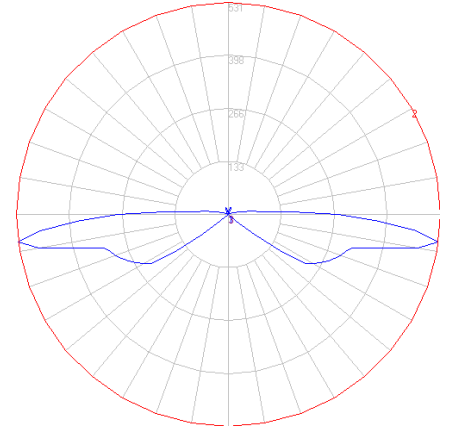
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BEGA

File: 84357K27_BEGA_IES.ies

TEST: BEGA_84357K4
 TEST LAB: BEGA
 DATE: 8/26/2019
 LUMINAIRE: 84 357K27
 LAMP: 20.0W LED



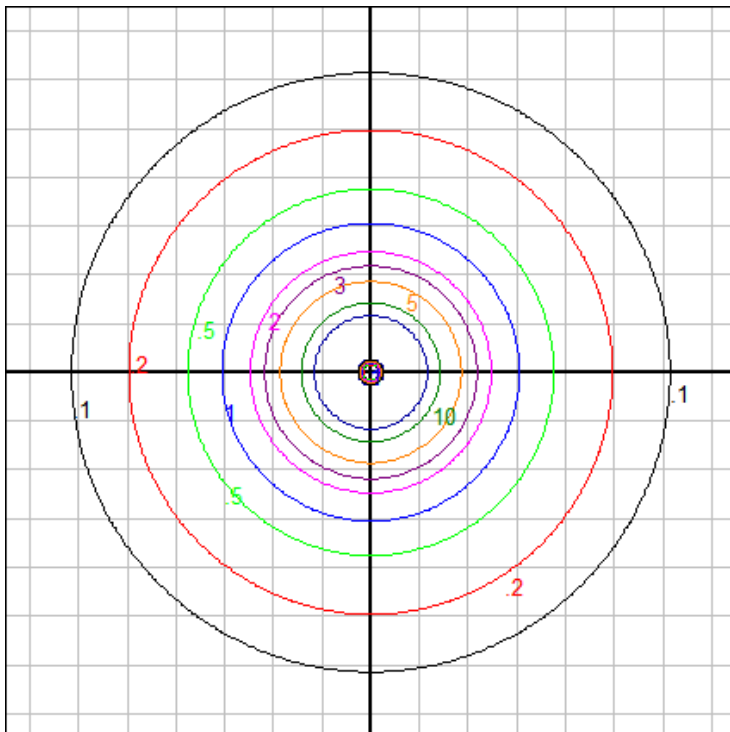
Characteristics

IES Classification	Type V
Longitudinal Classification	Very Long
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1440
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	25
Ballast Factor	1.00
Upward Waste Light Ratio	0.12
Max. Cd.	531.136 (0H, 82.5V)
Max. Cd. (<90 Vert.)	531.136 (0H, 82.5V)
Max. Cd. (At 90 Deg. Vert.)	278.197 (19.3%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	531.136 (36.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

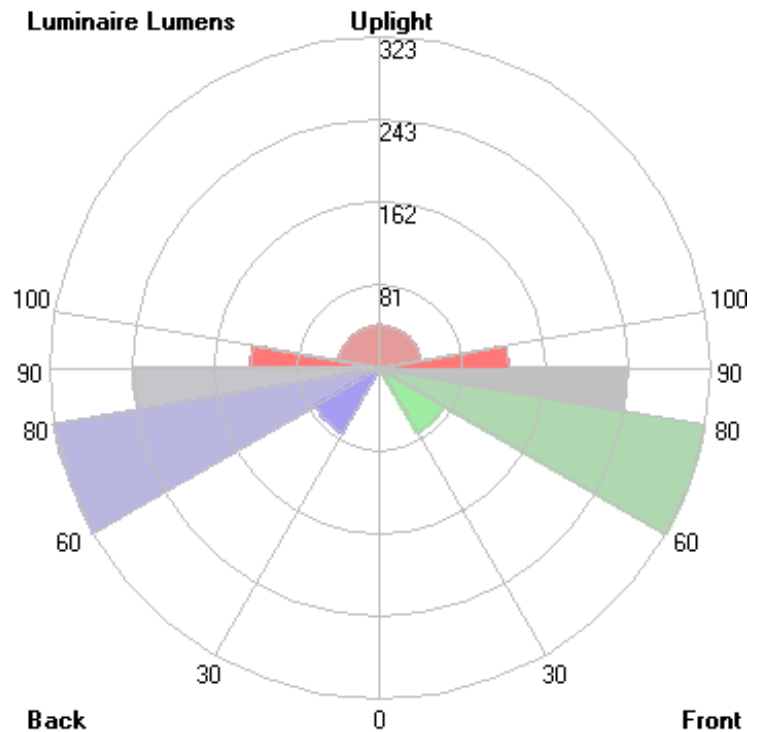
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	0.0	N.A.	0.0
FM (30-60)	73.3	N.A.	5.1
FH (60-80)	323.4	N.A.	22.5
FVH(80-90)	240.4	N.A.	16.7
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	73.3	N.A.	5.1
BH (60-80)	323.4	N.A.	22.5
BVH(80-90)	240.4	N.A.	16.7
UL (90-100)	125.5	N.A.	8.7
UH (100-180)	40.5	N.A.	2.8
Total	1440.2	N.A.	100.0

BUG Rating B1-U3-3



Grid Spacing: 2 ft.



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

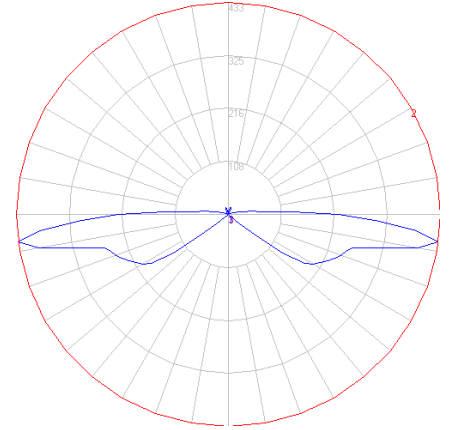
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BEGA

File: 84357AMB_BEGA_IES.ies

TEST: BEGA_84357K4
TEST LAB: BEGA
DATE: 8/26/2019
LUMINAIRE: 84 357AMB
LAMP: 15.1W LED



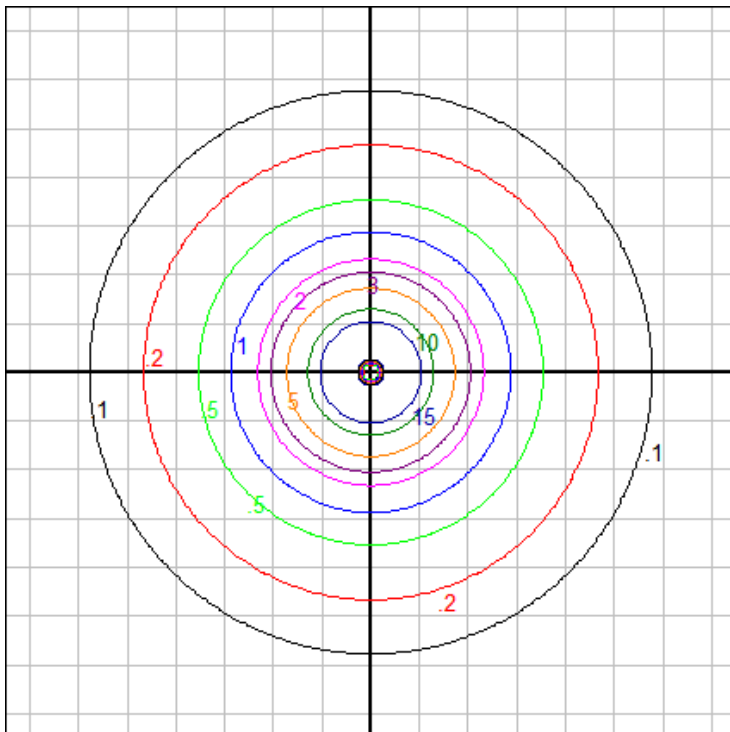
Characteristics

IES Classification	Type V
Longitudinal Classification	Very Long
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1174
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	18
Ballast Factor	1.00
Upward Waste Light Ratio	0.12
Max. Cd.	432.958 (0H, 82.5V)
Max. Cd. (<90 Vert.)	432.958 (0H, 82.5V)
Max. Cd. (At 90 Deg. Vert.)	226.774 (19.3%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	432.958 (36.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	0.0	N.A.	0.0
FM (30-60)	59.7	N.A.	5.1
FH (60-80)	263.6	N.A.	22.5
FVH(80-90)	196.0	N.A.	16.7
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	59.7	N.A.	5.1
BH (60-80)	263.6	N.A.	22.5
BVH(80-90)	196.0	N.A.	16.7
UL (90-100)	102.3	N.A.	8.7
UH (100-180)	33.0	N.A.	2.8
Total	1173.9	N.A.	100.0

BUG Rating B1-U3-G2



Grid Spacing: 2 ft.

