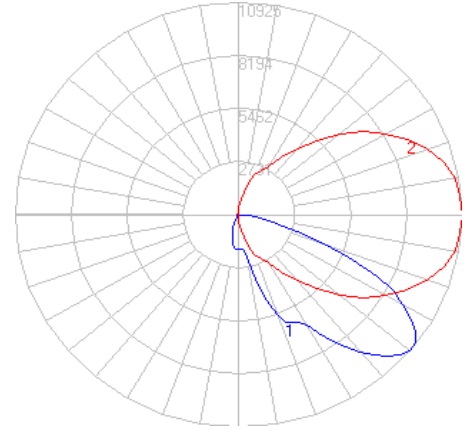


BEGA

File: 24352K4_BEGA_IES.IES

TEST: BE_24352K4
TEST LAB: BEGA
DATE: 07/31/2019
LUMINAIRE: 24 352K4
LAMP: 98.3W LED



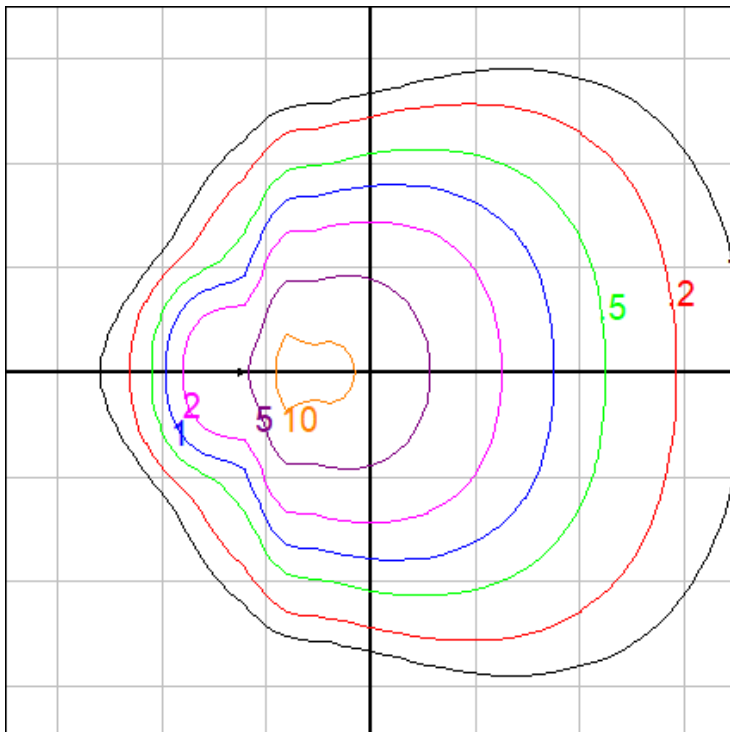
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10523
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	105
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	10924.9 (0H, 50V)
Max. Cd. (<90 Vert.)	10924.9 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	1223.6 (11.6%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	1366.8	N.A.	13.0
FM (30-60)	5996.9	N.A.	57.0
FH (60-80)	2352.0	N.A.	22.4
FVH(80-90)	113.9	N.A.	1.1
BL (0-30)	470.0	N.A.	4.5
BM (30-60)	197.9	N.A.	1.9
BH (60-80)	24.6	N.A.	0.2
BVH(80-90)	1.2	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	10523.3	N.A.	100.0

BUG Rating B1-U0-G2

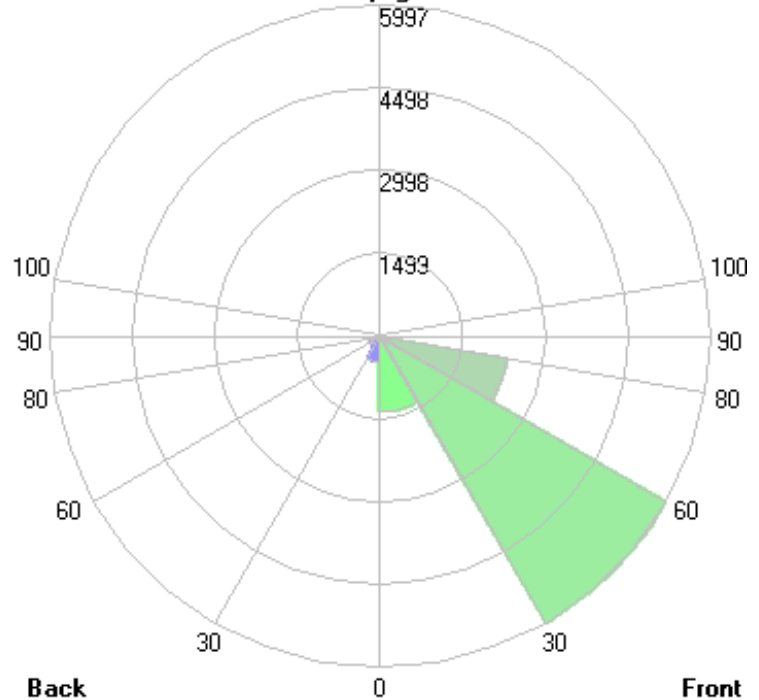


Mounting Height: 20 ft.

Grid Spacing: 15 ft.

Luminaire Lumens

Uplight



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

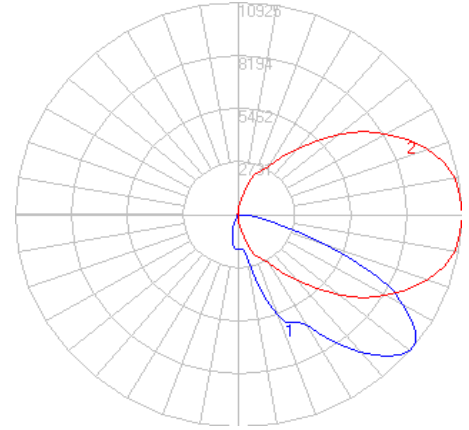
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File: 24352K35_BEGA_IES.IES

TEST: BE_24352K4
TEST LAB: BEGA
DATE: 07/31/2019
LUMINAIRE: 24 352K35
LAMP: 98.3W LED



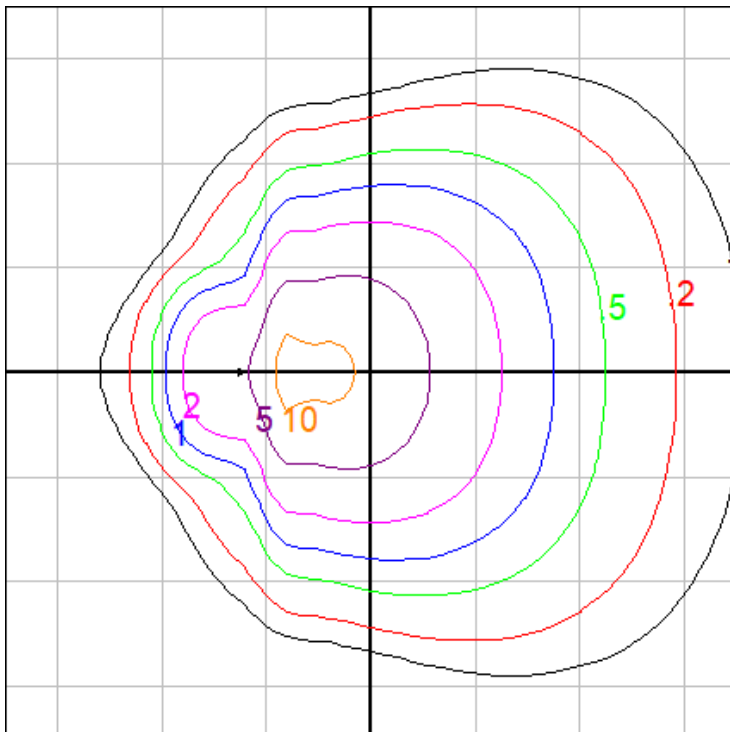
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10523
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	105
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	10924.9 (0H, 50V)
Max. Cd. (<90 Vert.)	10924.9 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	1223.6 (11.6%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	1366.8	N.A.	13.0
FM (30-60)	5996.9	N.A.	57.0
FH (60-80)	2352.0	N.A.	22.4
FVH(80-90)	113.9	N.A.	1.1
BL (0-30)	470.0	N.A.	4.5
BM (30-60)	197.9	N.A.	1.9
BH (60-80)	24.6	N.A.	0.2
BVH(80-90)	1.2	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	10523.3	N.A.	100.0

BUG Rating B1-U0-G2

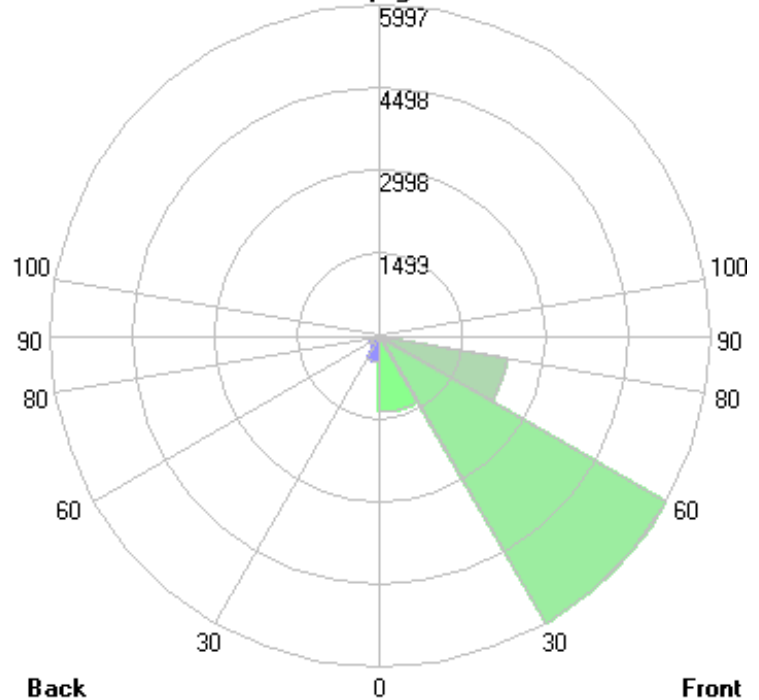


Mounting Height: 20 ft.

Grid Spacing: 15 ft.

Luminaire Lumens

Uplight



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

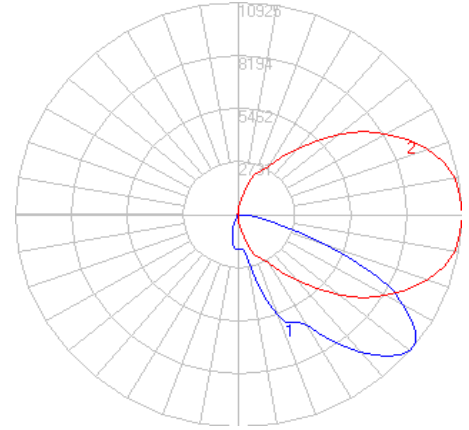
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File: 24352K3_BEGA_IES.IES

TEST: BE_24352K4
TEST LAB: BEGA
DATE: 07/31/2019
LUMINAIRE: 24 352K3
LAMP: 98.3W LED



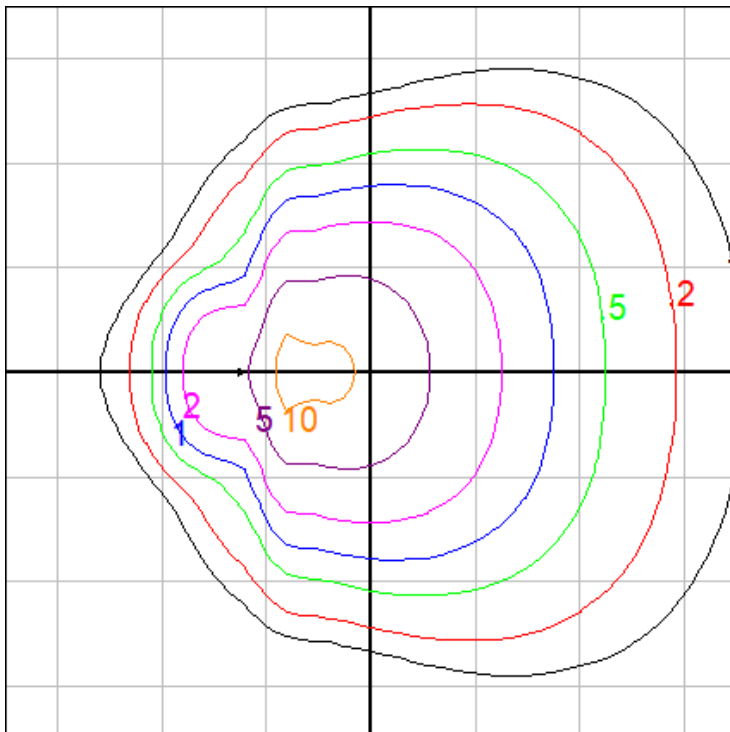
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10523
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	105
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	10924.9 (0H, 50V)
Max. Cd. (<90 Vert.)	10924.9 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	1223.6 (11.6%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	1366.8	N.A.	13.0
FM (30-60)	5996.9	N.A.	57.0
FH (60-80)	2352.0	N.A.	22.4
FVH(80-90)	113.9	N.A.	1.1
BL (0-30)	470.0	N.A.	4.5
BM (30-60)	197.9	N.A.	1.9
BH (60-80)	24.6	N.A.	0.2
BVH(80-90)	1.2	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	10523.3	N.A.	100.0

BUG Rating B1-U0-G2

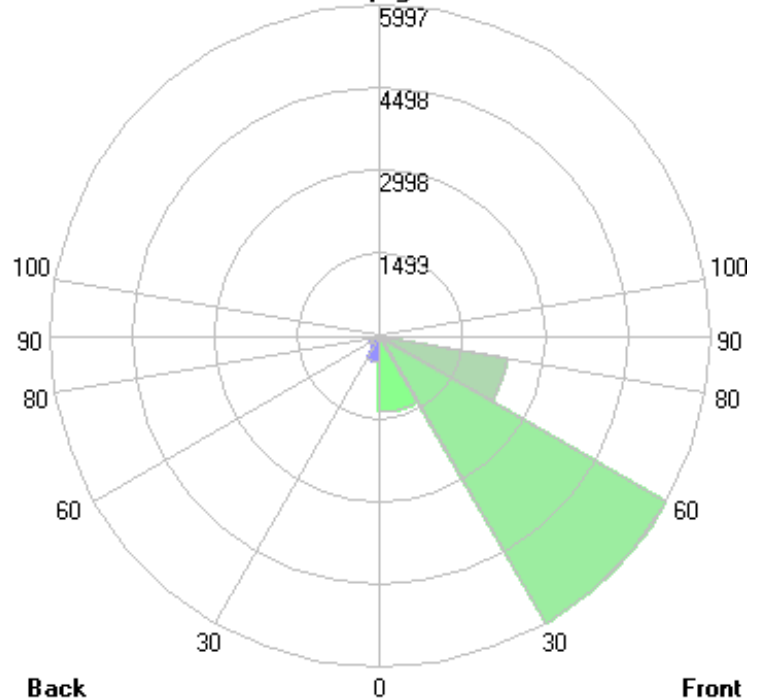


Mounting Height: 20 ft.

Grid Spacing: 15 ft.

Luminaire Lumens

Uplight



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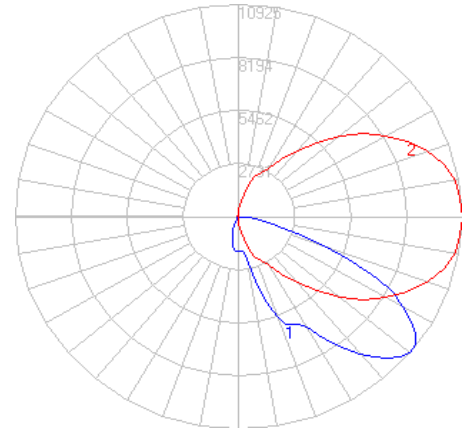
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BEGA

File: 24352K27_BEGA_IES.IES

TEST: BE_24352K4
TEST LAB: BEGA
DATE: 07/31/2019
LUMINAIRE: 24 352K27
LAMP: 98.3W LED



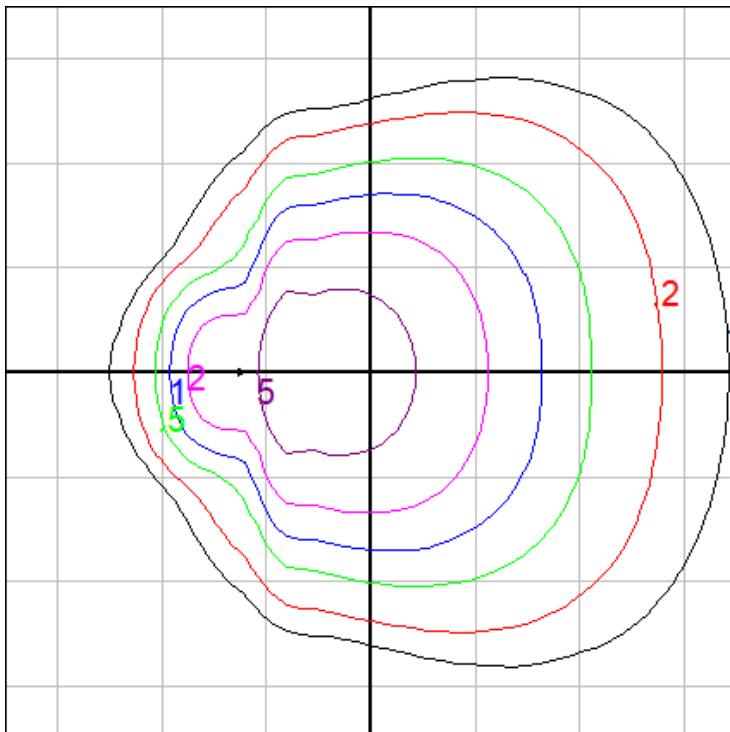
Characteristics

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8839
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	105
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	9176.916 (0H, 50V)
Max. Cd. (<90 Vert.)	9176.916 (0H, 50V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	1027.824 (11.6%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	1148.1	N.A.	13.0
FM (30-60)	5037.4	N.A.	57.0
FH (60-80)	1975.7	N.A.	22.4
FVH(80-90)	95.6	N.A.	1.1
BL (0-30)	394.8	N.A.	4.5
BM (30-60)	166.2	N.A.	1.9
BH (60-80)	20.6	N.A.	0.2
BVH(80-90)	1.0	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	8839.4	N.A.	100.0

BUG Rating B1-U0-G2

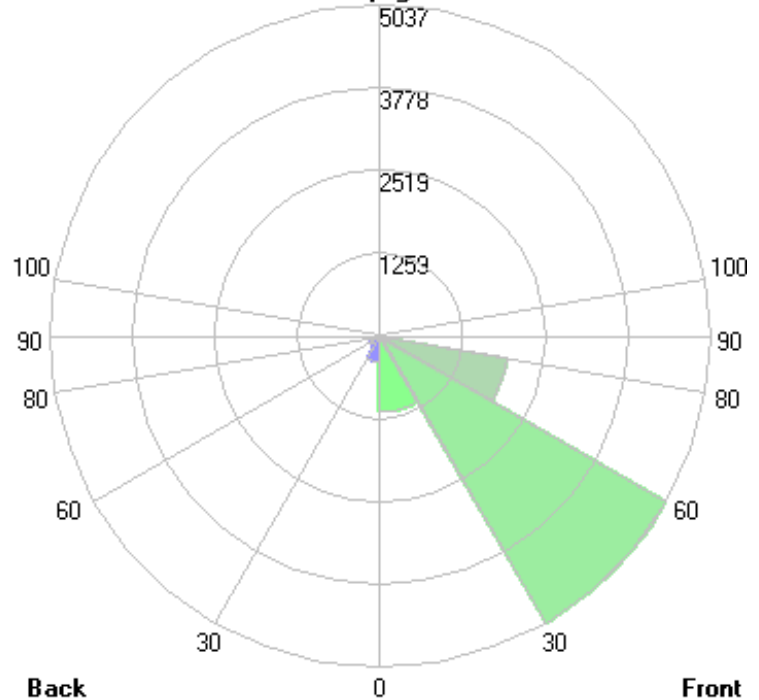


Mounting Height: 20 ft.

Grid Spacing: 15 ft.

Luminaire Lumens

Uplight



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