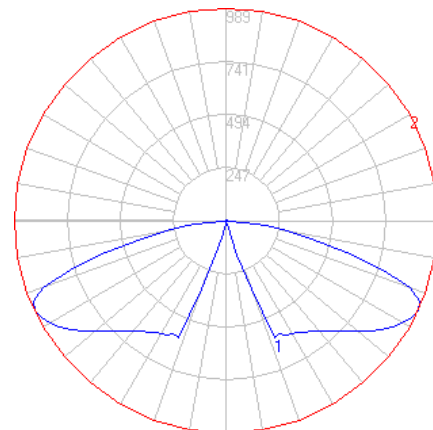


BEGA

File: 84816K4_BEGA_IES.ies

TEST: BE_84816K4
TEST LAB: BEGA
DATE: 08/31/2020
LUMINAIRE: 84 816K4
LAMP: 29.4W LED



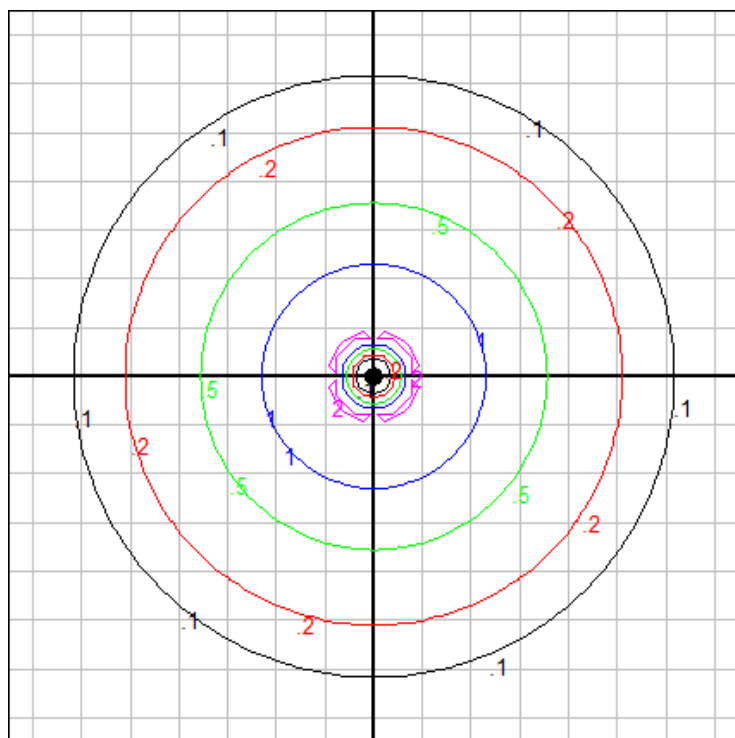
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3768
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	35
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	988.6 (0H, 65V)
Max. Cd. (<90 Vert.)	988.6 (0H, 65V)
Max. Cd. (At 90 Deg. Vert.)	2.5 (0.1%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	283.9 (7.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

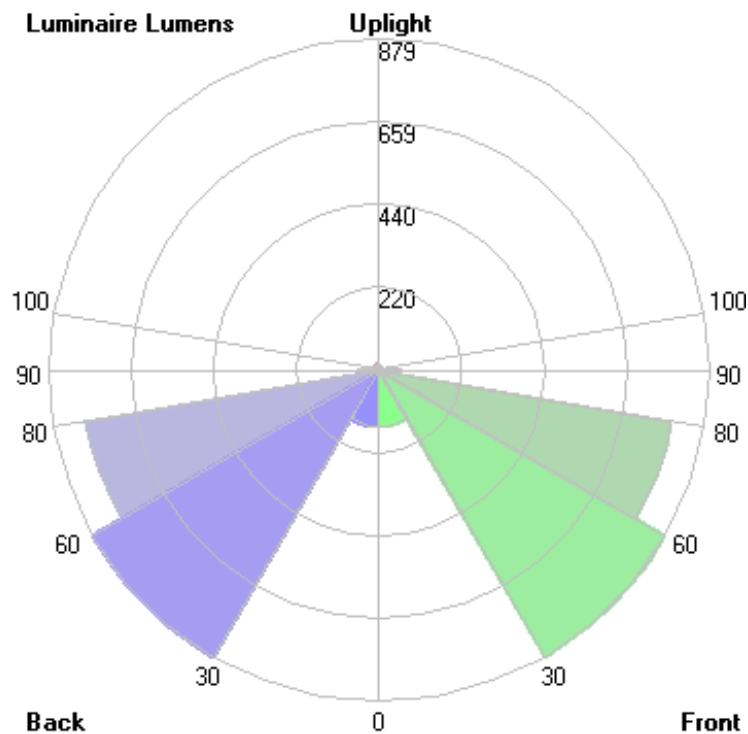
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	150.6	N.A.	4.0
FM (30-60)	879.3	N.A.	23.3
FH (60-80)	789.5	N.A.	21.0
FVH (80-90)	57.5	N.A.	1.5
BL (0-30)	150.6	N.A.	4.0
BM (30-60)	879.3	N.A.	23.3
BH (60-80)	789.5	N.A.	21.0
BVH (80-90)	57.5	N.A.	1.5
UL (90-100)	1.6	N.A.	0.0
UH (100-180)	12.3	N.A.	0.3
Total	3767.7	N.A.	100.0

BUG Rating B2-U2-G1



Shown on pole 84713 (176-1/2" OAH)

Grid Spacing: 7.5 ft.



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

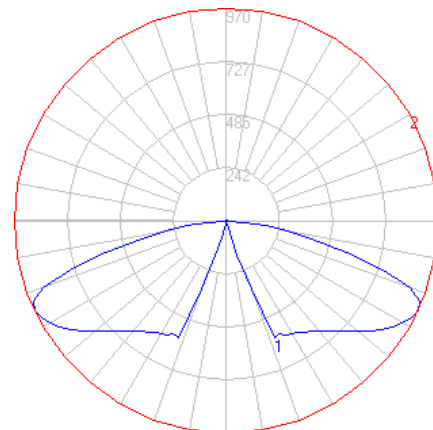
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BEGA

File: 84816K35_BEGA_IES.ies

TEST: BE_84816K4
TEST LAB: BEGA
DATE: 08/31/2020
LUMINAIRE: 84 816K35
LAMP: 29.4W LED



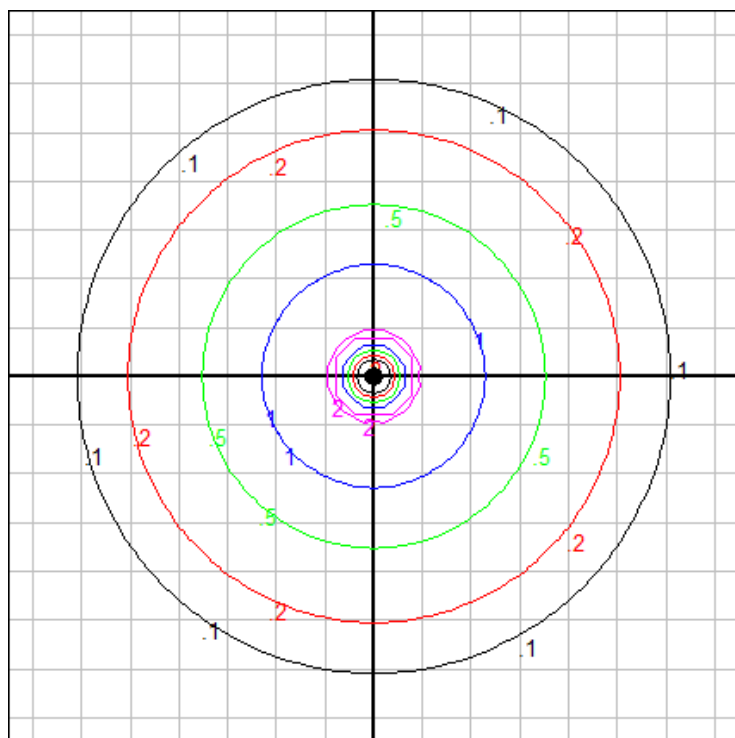
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3696
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	35
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	969.817 (0H, 65V)
Max. Cd. (<90 Vert.)	969.817 (0H, 65V)
Max. Cd. (At 90 Deg. Vert.)	2.453 (0.1%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	278.506 (7.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	147.7	N.A.	4.0
FM (30-60)	862.6	N.A.	23.3
FH (60-80)	774.5	N.A.	21.0
FVH (80-90)	56.4	N.A.	1.5
BL (0-30)	147.7	N.A.	4.0
BM (30-60)	862.6	N.A.	23.3
BH (60-80)	774.5	N.A.	21.0
BVH (80-90)	56.4	N.A.	1.5
UL (90-100)	1.5	N.A.	0.0
UH (100-180)	12.1	N.A.	0.3
Total	3696.0	N.A.	100.0

BUG Rating B2-U2-G1

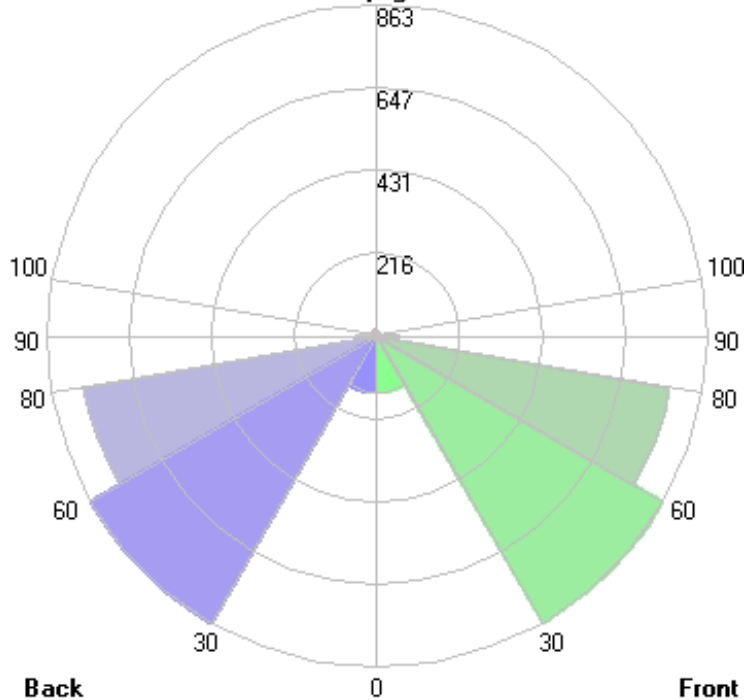


Shown on pole 84713 (176-1/2" OAH)

Grid Spacing: 7.5 ft.

Luminaire Lumens

Uplight



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

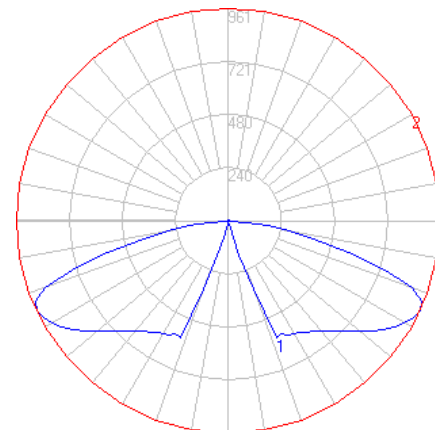
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File: 84816K3_BEGA_IES.ies

TEST: BE_84816K4
TEST LAB: BEGA
DATE: 08/31/2020
LUMINAIRE: 84 816K3
LAMP: 29.4W LED



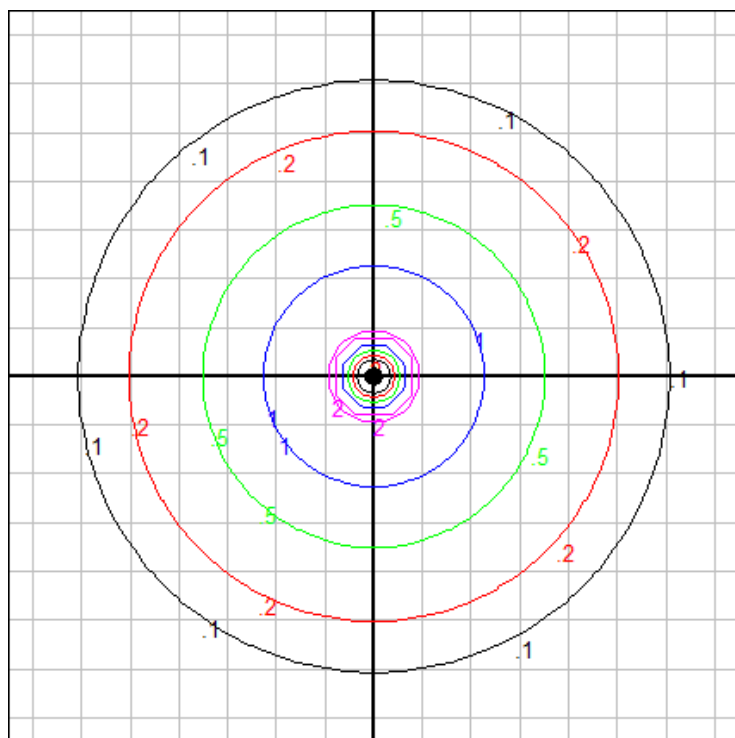
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3662
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	35
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	960.919 (0H, 65V)
Max. Cd. (<90 Vert.)	960.919 (0H, 65V)
Max. Cd. (At 90 Deg. Vert.)	2.43 (0.1%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	275.951 (7.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

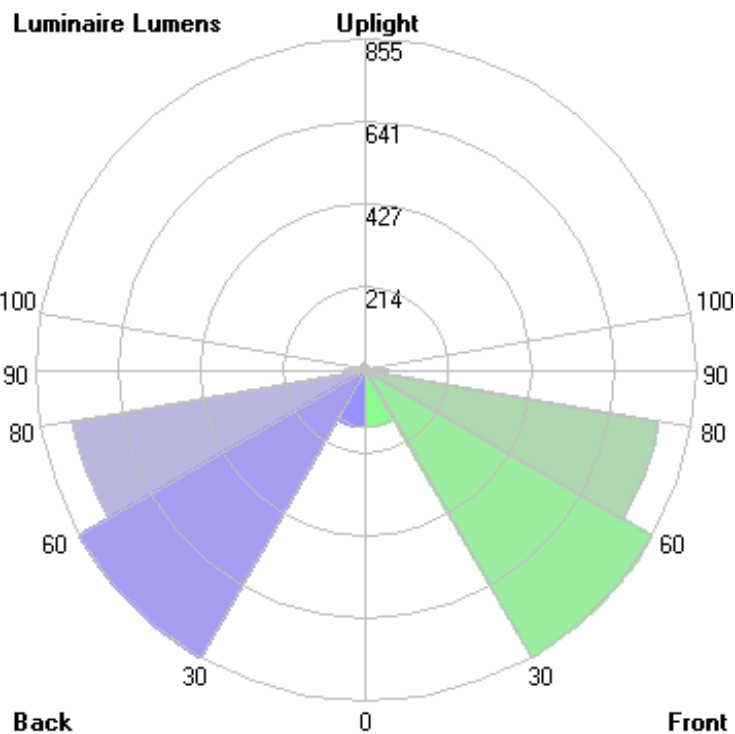
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	146.4	N.A.	4.0
FM (30-60)	854.7	N.A.	23.3
FH (60-80)	767.4	N.A.	21.0
FVH (80-90)	55.9	N.A.	1.5
BL (0-30)	146.4	N.A.	4.0
BM (30-60)	854.7	N.A.	23.3
BH (60-80)	767.4	N.A.	21.0
BVH (80-90)	55.9	N.A.	1.5
UL (90-100)	1.5	N.A.	0.0
UH (100-180)	11.9	N.A.	0.3
Total	3662.2	N.A.	100.0

BUG Rating B2-U2-G1



Shown on pole 84713 (176-1/2" OAH) | Grid Spacing: 7.5 ft.



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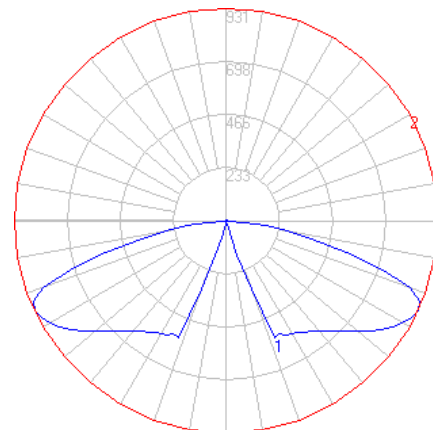
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BEGA

File: 84816K27_BEGA_IES.ies

TEST: BE_84816K4
TEST LAB: BEGA
DATE: 08/31/2020
LUMINAIRE: 84 816K27
LAMP: 29.4W LED



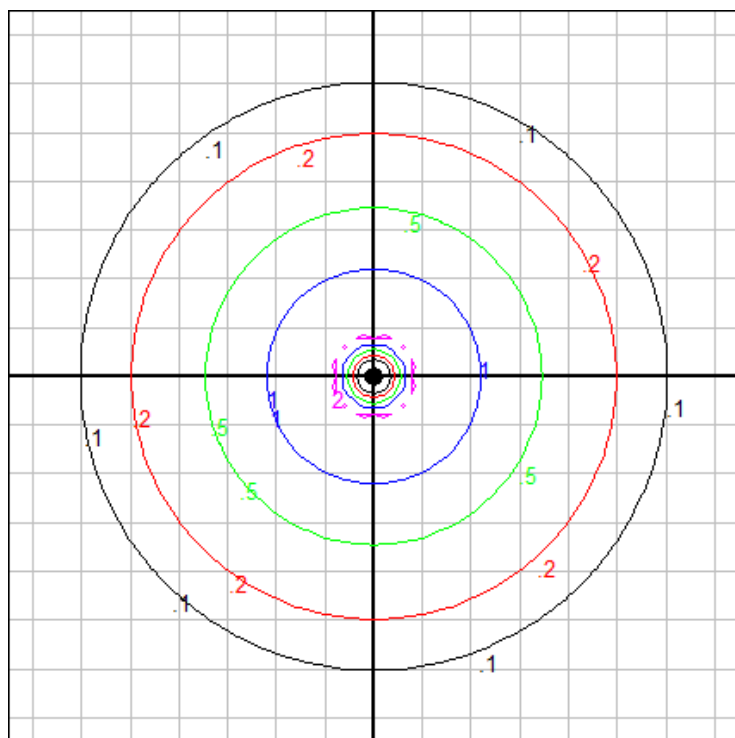
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3549
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	35
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	931.261 (0H, 65V)
Max. Cd. (<90 Vert.)	931.261 (0H, 65V)
Max. Cd. (At 90 Deg. Vert.)	2.355 (0.1%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	267.434 (7.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

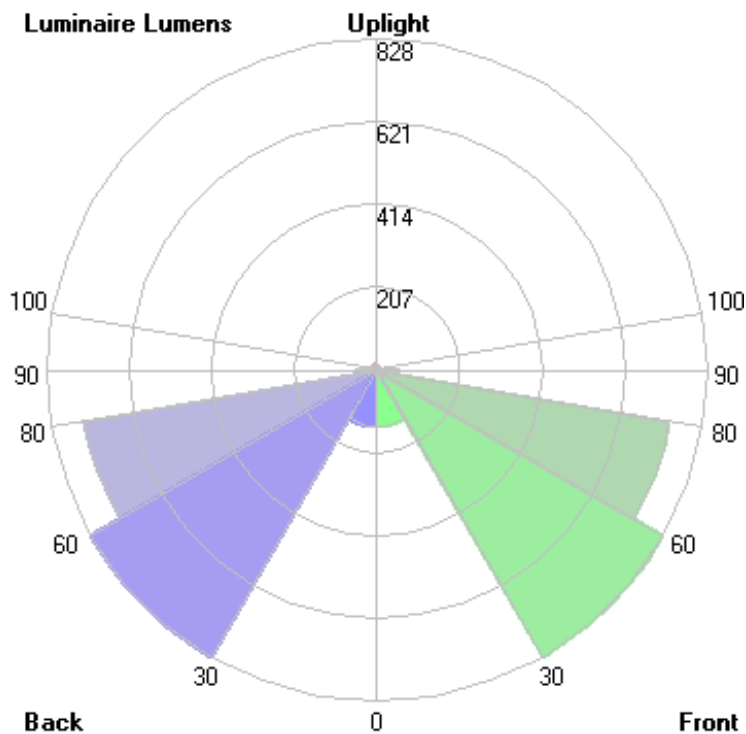
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	141.8	N.A.	4.0
FM (30-60)	828.3	N.A.	23.3
FH (60-80)	743.7	N.A.	21.0
FVH (80-90)	54.1	N.A.	1.5
BL (0-30)	141.8	N.A.	4.0
BM (30-60)	828.3	N.A.	23.3
BH (60-80)	743.7	N.A.	21.0
BVH (80-90)	54.1	N.A.	1.5
UL (90-100)	1.5	N.A.	0.0
UH (100-180)	11.6	N.A.	0.3
Total	3548.9	N.A.	100.0

BUG Rating B2-U2-G1



Shown on pole 84713 (176-1/2" OAH)

Grid Spacing: 7.5 ft.



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