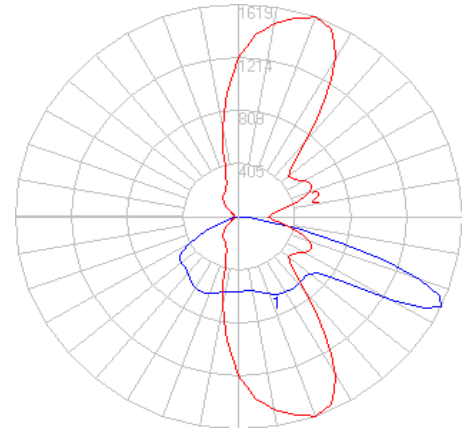


BEGA

File: 84254K4_BEGA_IES.IES

TEST: BE_77025K4
TEST LAB: BEGA
DATE: 05/02/2017
LUMINAIRE: 84254K4
LAMP: (2) 15.8W LED



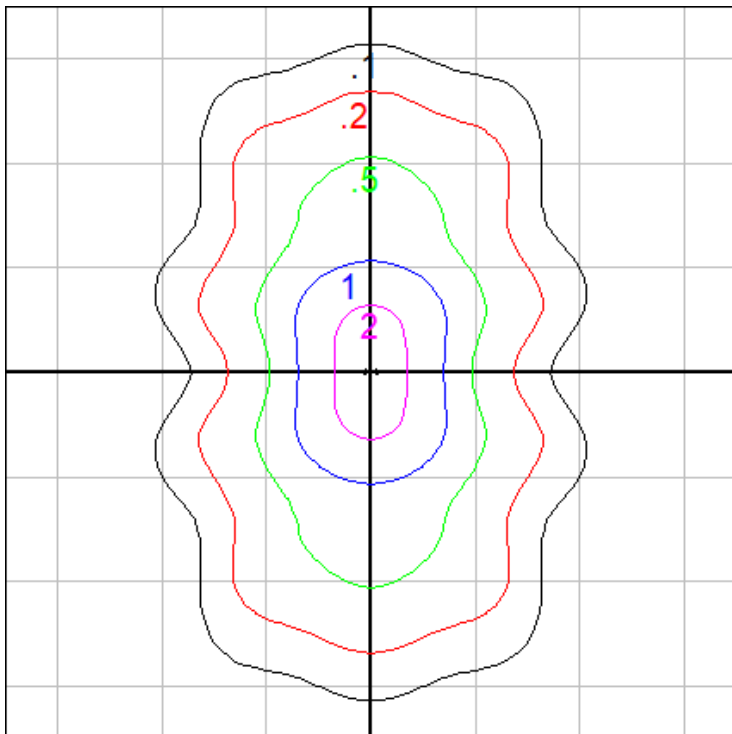
Characteristics

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2391
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	20
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	1618.8 (290H, 65V)
Max. Cd. (<90 Vert.)	1618.8 (290H, 65V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	198.8 (8.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

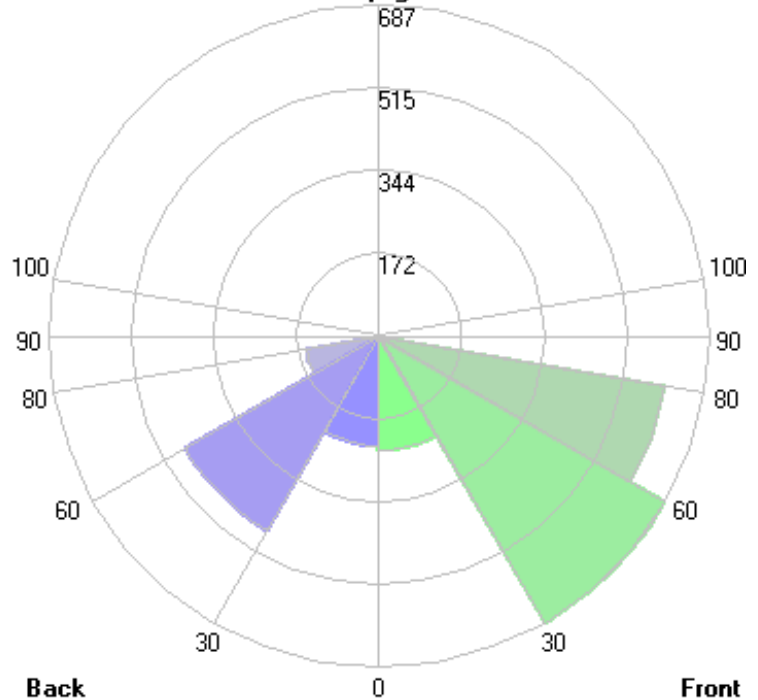
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	238.5	N.A.	10.0
FM (30-60)	687.2	N.A.	28.7
FH (60-80)	603.0	N.A.	25.2
FVH(80-90)	11.7	N.A.	0.5
BL (0-30)	227.6	N.A.	9.5
BM (30-60)	465.1	N.A.	19.5
BH (60-80)	154.3	N.A.	6.5
BVH(80-90)	3.8	N.A.	0.2
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	2391.2	N.A.	100.0

BUG Rating B1-U0-G1



Luminaire Lumens

Uplight



Mounting Height: 20 ft. (Pole 1908HR) | Grid Spacing: 20 ft.

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

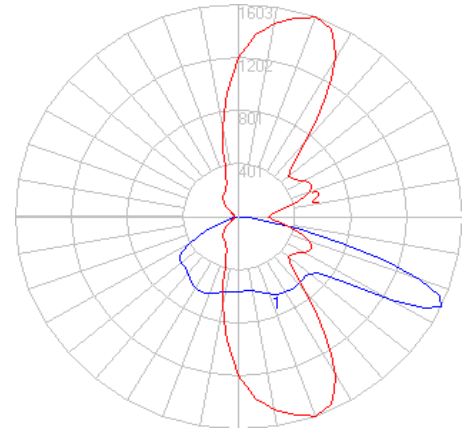
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BEGA

File: 84254K35_BEGA_IES.IES

TEST: BE_77025K4
TEST LAB: BEGA
DATE: 05/02/2017
LUMINAIRE: 84254K35
LAMP: (2) 15.8W LED



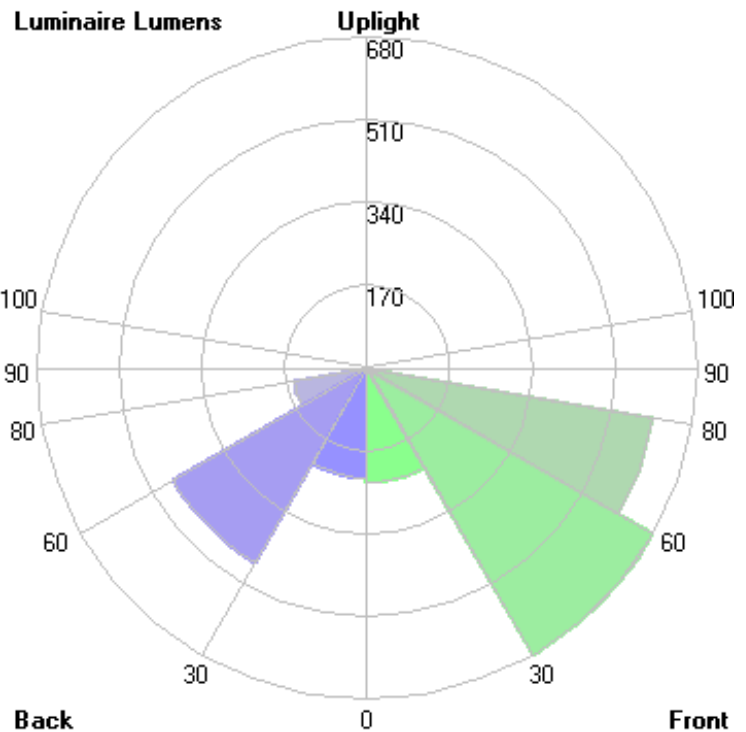
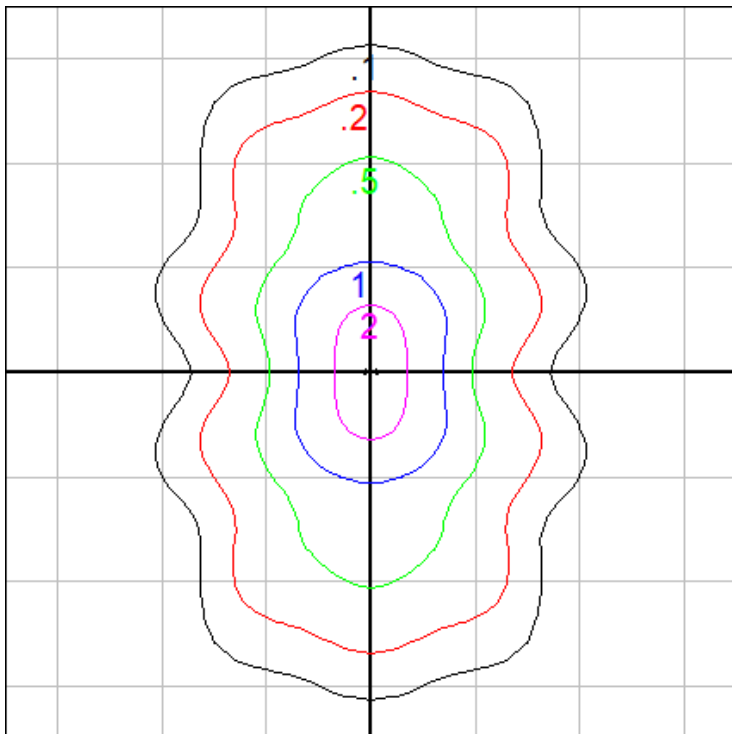
Characteristics

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2367
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	20
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	1602.612 (290H, 65V)
Max. Cd. (<90 Vert.)	1602.612 (290H, 65V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	196.812 (8.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	236.1	N.A.	10.0
FM (30-60)	680.3	N.A.	28.7
FH (60-80)	597.0	N.A.	25.2
FVH(80-90)	11.6	N.A.	0.5
BL (0-30)	225.3	N.A.	9.5
BM (30-60)	460.4	N.A.	19.5
BH (60-80)	152.7	N.A.	6.5
BVH(80-90)	3.7	N.A.	0.2
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	2367.1	N.A.	100.0

BUG Rating B1-U0-G1



Mounting Height: 20 ft. (Pole 1908HR) | Grid Spacing: 20 ft.

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

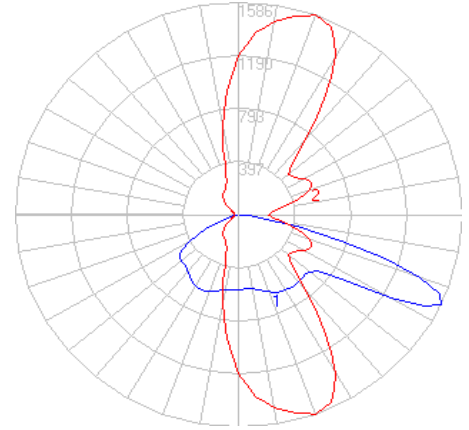
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BEGA

File: 84254K3_BEGA_IES.IES

TEST: BE_77025K4
TEST LAB: BEGA
DATE: 05/02/2017
LUMINAIRE: 84254K3
LAMP: (2) 15.8W LED



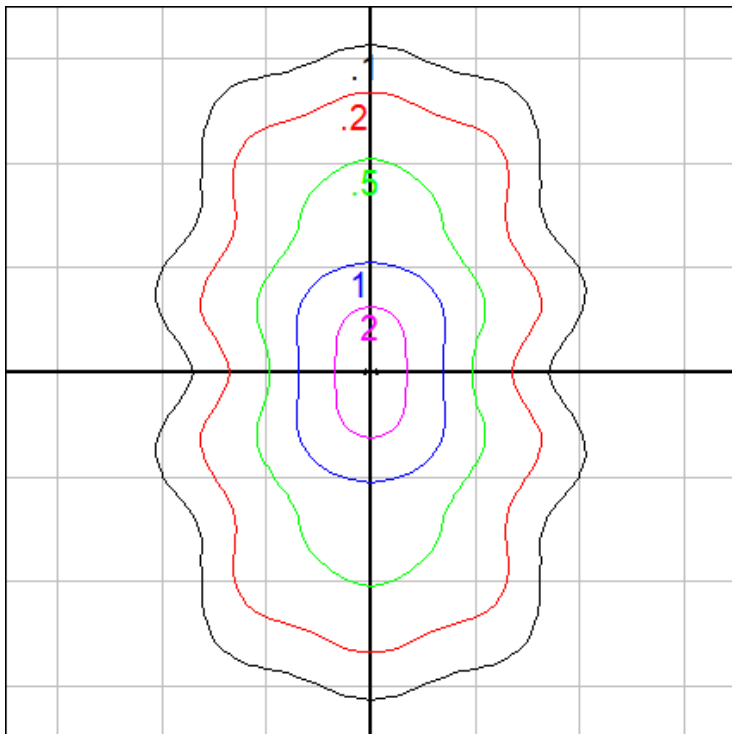
Characteristics

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2343
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	20
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	1586.424 (290H, 65V)
Max. Cd. (<90 Vert.)	1586.424 (290H, 65V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	194.824 (8.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

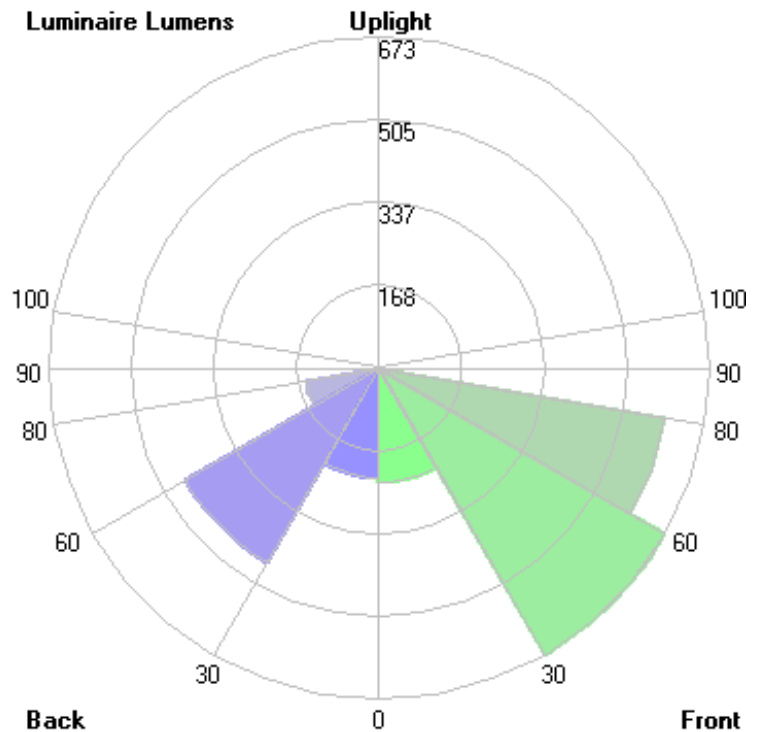
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	233.7	N.A.	10.0
FM (30-60)	673.5	N.A.	28.7
FH (60-80)	591.0	N.A.	25.2
FVH(80-90)	11.5	N.A.	0.5
BL (0-30)	223.0	N.A.	9.5
BM (30-60)	455.8	N.A.	19.5
BH (60-80)	151.2	N.A.	6.5
BVH(80-90)	3.7	N.A.	0.2
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	2343.4	N.A.	100.0

BUG Rating B1-U0-G1



Luminaire Lumens



Mounting Height: 20 ft. (Pole 1908HR) | Grid Spacing: 20 ft.

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

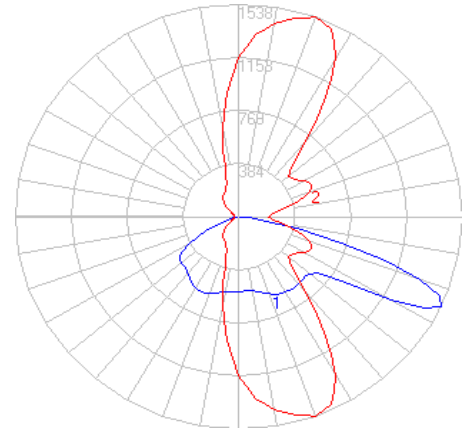
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BEGA

File: 84254K27_BEGA_IES.IES

TEST: BE_77025K4
TEST LAB: BEGA
DATE: 05/02/2017
LUMINAIRE: 84254K27
LAMP: (2) 15.8W LED



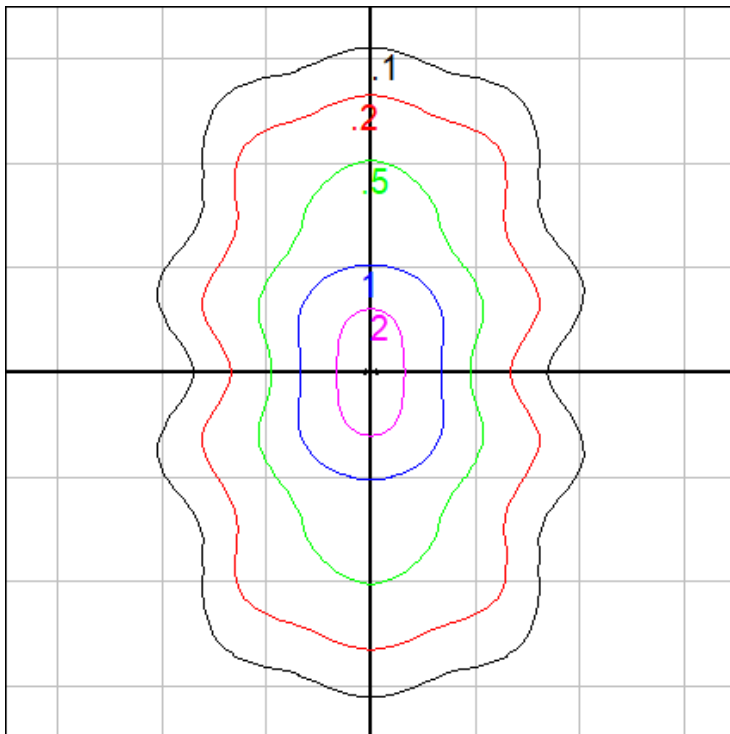
Characteristics

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2272
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	20
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	1537.86 (290H, 65V)
Max. Cd. (<90 Vert.)	1537.86 (290H, 65V)
Max. Cd. (At 90 Deg. Vert.)	0 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	188.86 (8.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

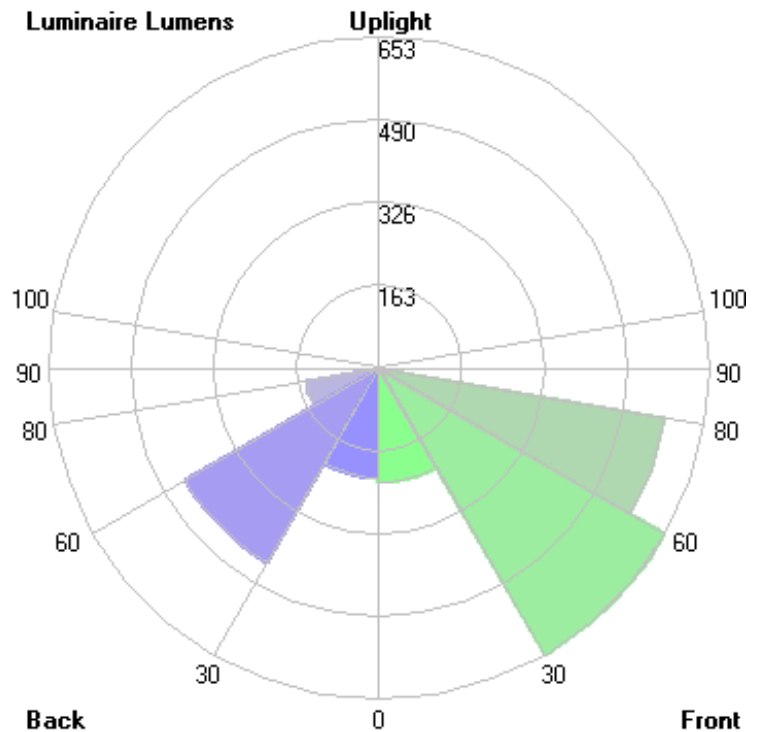
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	226.6	N.A.	10.0
FM (30-60)	652.8	N.A.	28.7
FH (60-80)	572.9	N.A.	25.2
FVH(80-90)	11.2	N.A.	0.5
BL (0-30)	216.2	N.A.	9.5
BM (30-60)	441.8	N.A.	19.5
BH (60-80)	146.5	N.A.	6.5
BVH(80-90)	3.6	N.A.	0.2
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	2271.6	N.A.	100.0

BUG Rating B1-U0-G1



Mounting Height: 20 ft. (Pole 1908HR) | Grid Spacing: 20 ft.



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