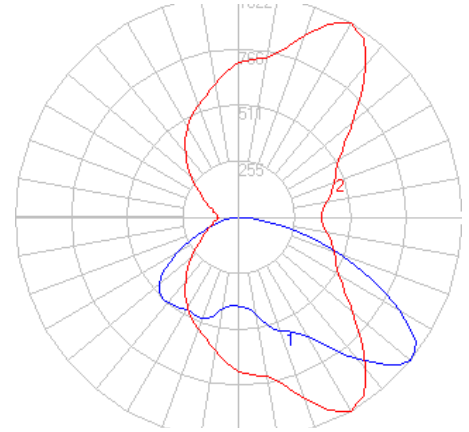


BEGA

File: BEGA_IES_84304K4.ies

TEST: BE_84304K4
TEST LAB: BEGA
DATE: 02/15/2019
LUMINAIRE: 84 304K4
LAMP: 13.6W LED



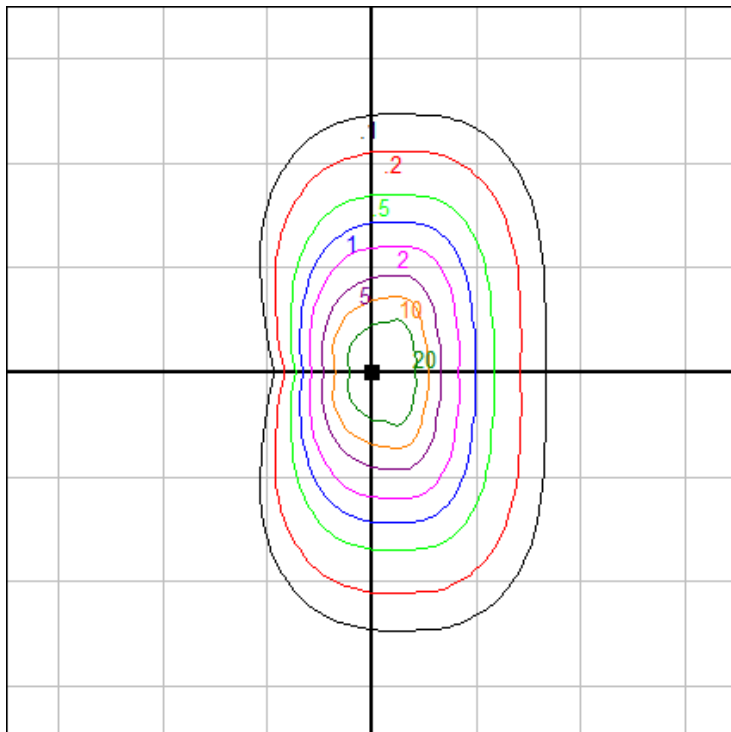
Characteristics

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2109
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	17
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	1021.9 (300H, 50V)
Max. Cd. (<90 Vert.)	1021.9 (300H, 50V)
Max. Cd. (At 90 Deg. Vert.)	.3 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	182.9 (8.7%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

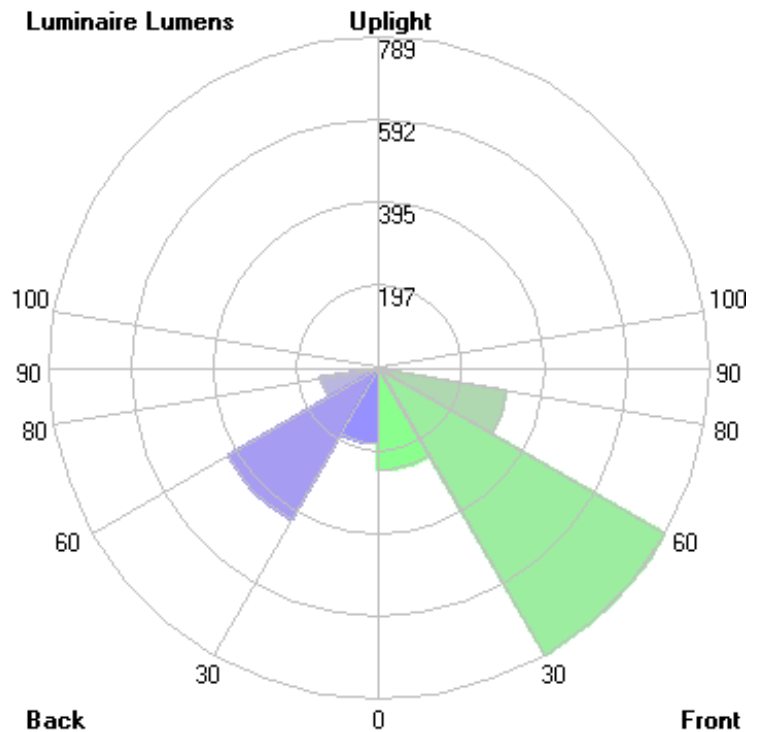
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	241.7	N.A.	11.5
FM (30-60)	789.1	N.A.	37.4
FH (60-80)	310.3	N.A.	14.7
FVH (80-90)	20.5	N.A.	1.0
BL (0-30)	181.1	N.A.	8.6
BM (30-60)	418.0	N.A.	19.8
BH (60-80)	139.2	N.A.	6.6
BVH (80-90)	9.2	N.A.	0.4
UL (90-100)	< 0.05	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	2109.1	N.A.	100.0

BUG Rating B1-U1-G1



Grid Spacing: 7.5 ft.



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

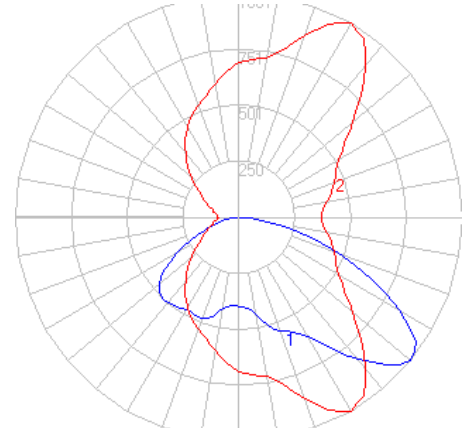
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BEGA

File: BEGA_IES_84304K35.ies

TEST: BE_84304K4
TEST LAB: BEGA
DATE: 02/15/2019
LUMINAIRE: 84 304K35
LAMP: 13.6W LED



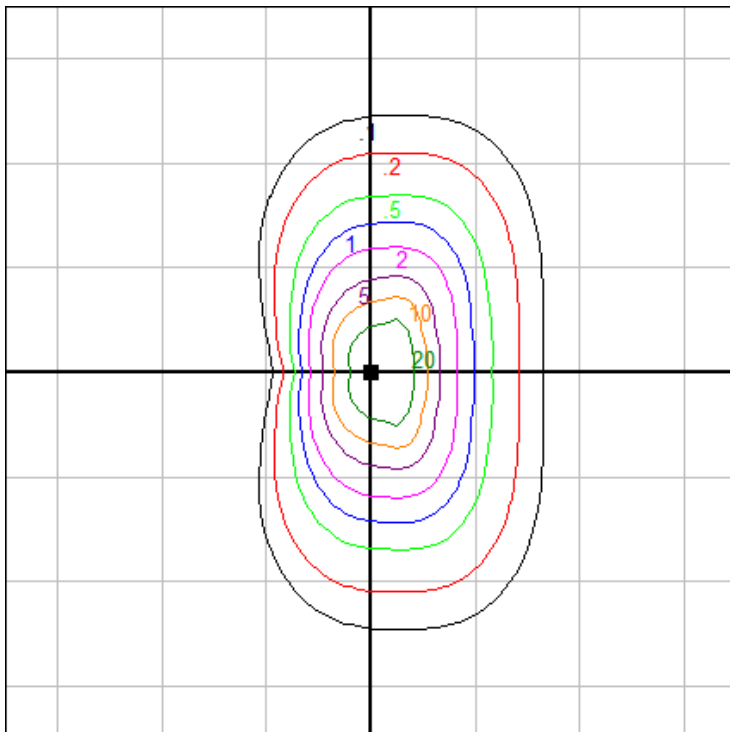
Characteristics

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2067
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	17
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	1001.462 (300H, 50V)
Max. Cd. (<90 Vert.)	1001.462 (300H, 50V)
Max. Cd. (At 90 Deg. Vert.)	.294 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	179.242 (8.7%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

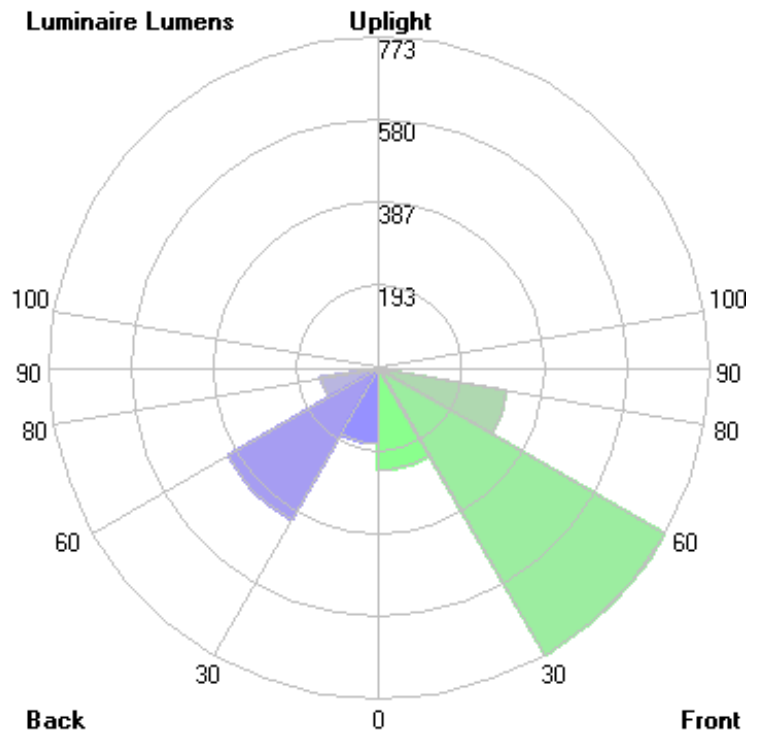
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	236.8	N.A.	11.5
FM (30-60)	773.3	N.A.	37.4
FH (60-80)	304.1	N.A.	14.7
FVH (80-90)	20.1	N.A.	1.0
BL (0-30)	177.4	N.A.	8.6
BM (30-60)	409.6	N.A.	19.8
BH (60-80)	136.5	N.A.	6.6
BVH (80-90)	9.1	N.A.	0.4
UL (90-100)	< 0.05	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	2066.9	N.A.	100.0

BUG Rating B1-U1-G1



Grid Spacing: 7.5 ft.



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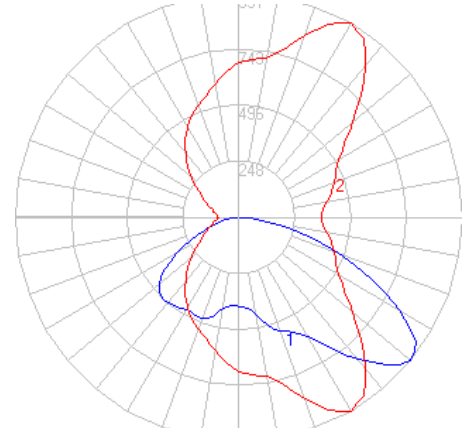
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BEGA

File: BEGA_IES_84304K3.ies

TEST: BE_84304K4
TEST LAB: BEGA
DATE: 02/15/2019
LUMINAIRE: 84 304K3
LAMP: 13.6W LED



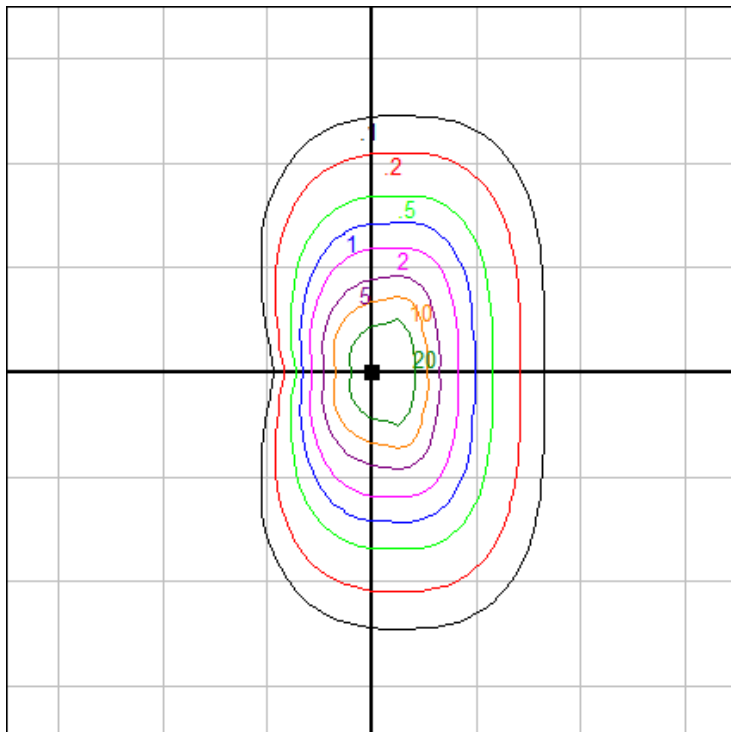
Characteristics

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2046
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	17
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	991.243 (300H, 50V)
Max. Cd. (<90 Vert.)	991.243 (300H, 50V)
Max. Cd. (At 90 Deg. Vert.)	.291 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	177.413 (8.7%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

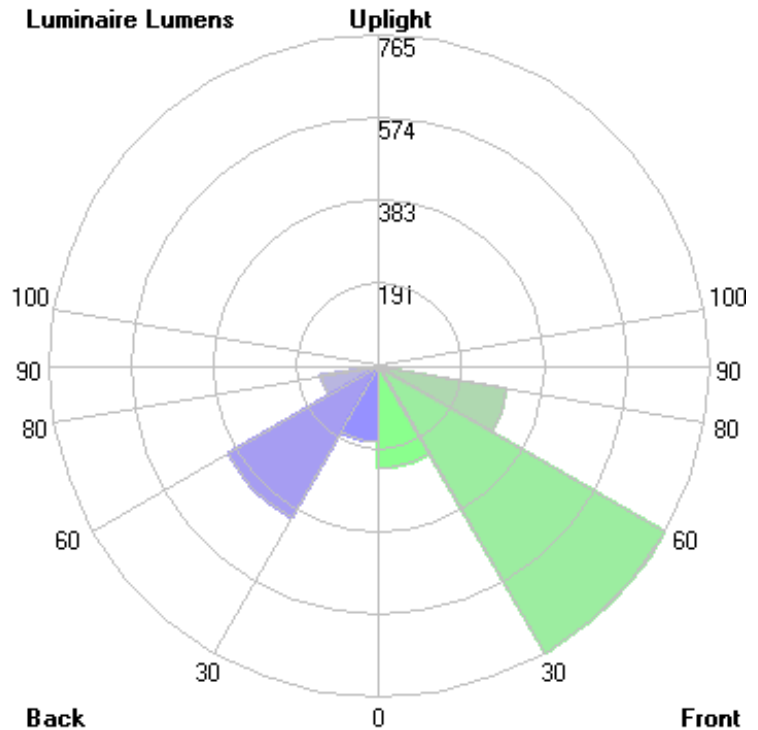
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	234.4	N.A.	11.5
FM (30-60)	765.4	N.A.	37.4
FH (60-80)	301.0	N.A.	14.7
FVH (80-90)	19.9	N.A.	1.0
BL (0-30)	175.6	N.A.	8.6
BM (30-60)	405.5	N.A.	19.8
BH (60-80)	135.1	N.A.	6.6
BVH (80-90)	9.0	N.A.	0.4
UL (90-100)	< 0.05	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	2045.9	N.A.	100.0

BUG Rating B1-U1-G1



Grid Spacing: 7.5 ft.



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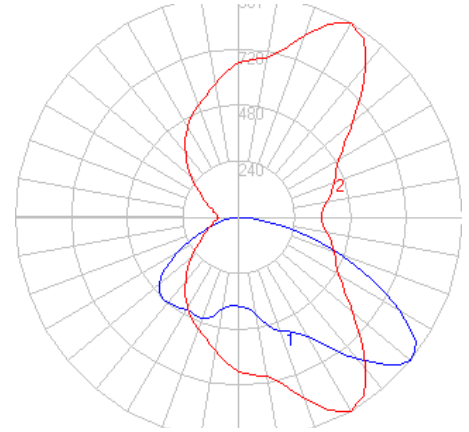
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BEGA

File: BEGA_IES_84304K27.ies

TEST: BE_84304K4
TEST LAB: BEGA
DATE: 02/15/2019
LUMINAIRE: 84 304K27
LAMP: 13.6W LED



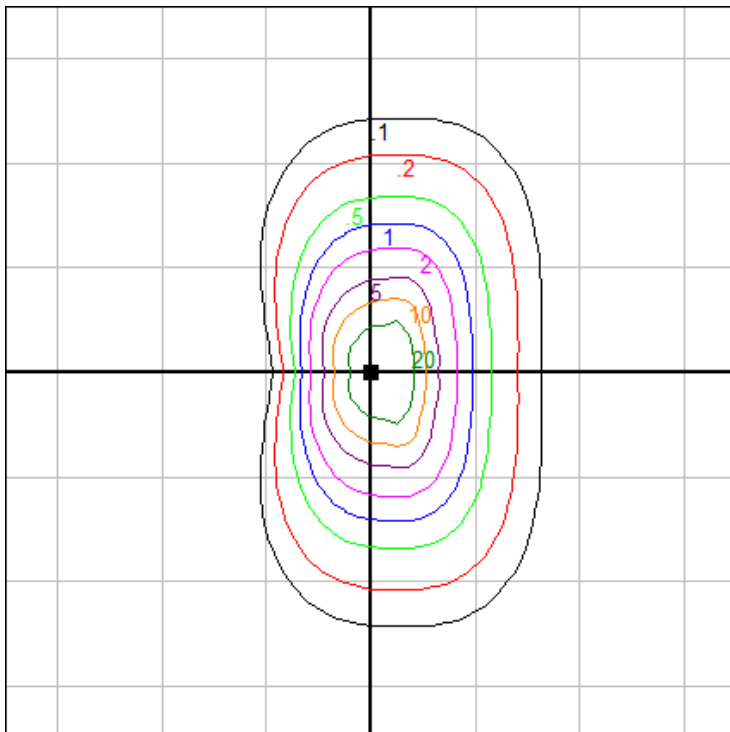
Characteristics

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1983
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	17
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	960.586 (300H, 50V)
Max. Cd. (<90 Vert.)	960.586 (300H, 50V)
Max. Cd. (At 90 Deg. Vert.)	.282 (0.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	171.926 (8.7%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

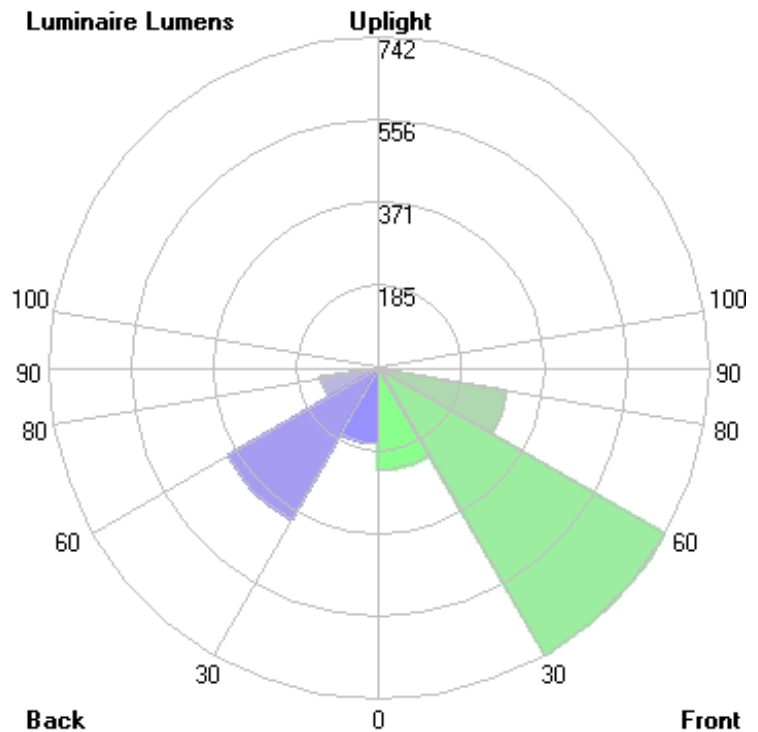
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	227.2	N.A.	11.5
FM (30-60)	741.7	N.A.	37.4
FH (60-80)	291.7	N.A.	14.7
FVH (80-90)	19.2	N.A.	1.0
BL (0-30)	170.2	N.A.	8.6
BM (30-60)	392.9	N.A.	19.8
BH (60-80)	130.9	N.A.	6.6
BVH (80-90)	8.7	N.A.	0.4
UL (90-100)	< 0.05	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1982.5	N.A.	100.0

BUG Rating B1-U1-G1



Grid Spacing: 7.5 ft.



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