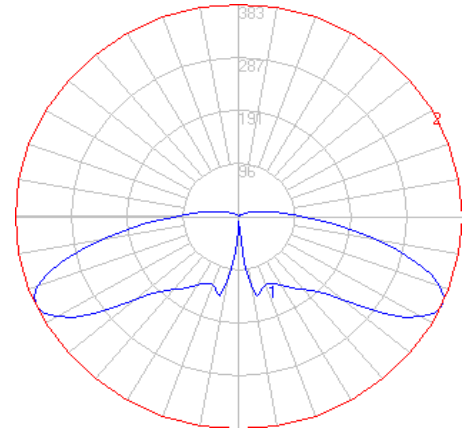


BEGA

File: 84244K4_BEGA_IES.ies

TEST: BE_84244K4
TEST LAB: BEGA
DATE: 07/23/2020
LUMINAIRE: 84244K4
LAMP: 15.6W LED



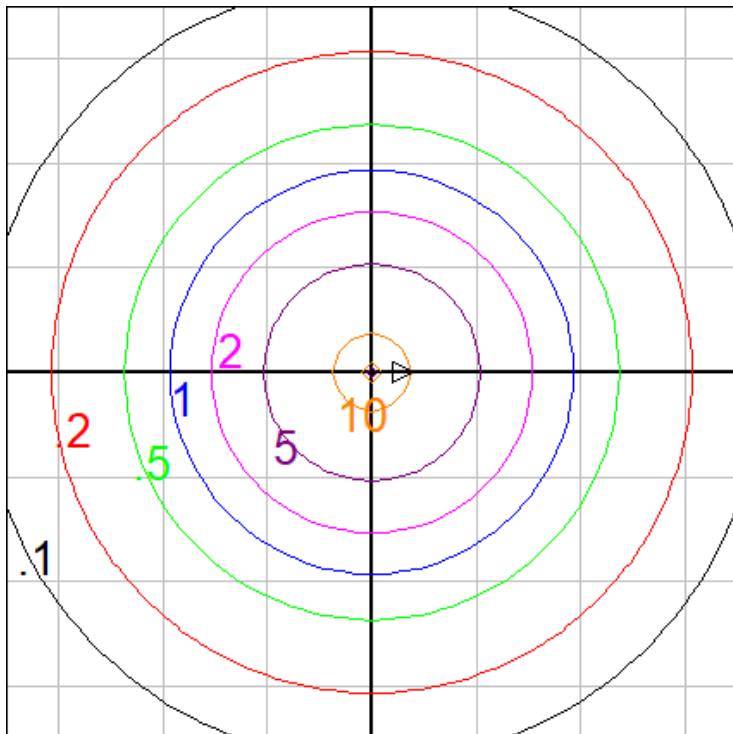
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1668
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	21
Ballast Factor	1.00
Upward Waste Light Ratio	0.09
Max. Cd.	382.7 (0H, 65V)
Max. Cd. (<90 Vert.)	382.7 (0H, 65V)
Max. Cd. (At 90 Deg. Vert.)	111.7 (6.7%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	238 (14.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

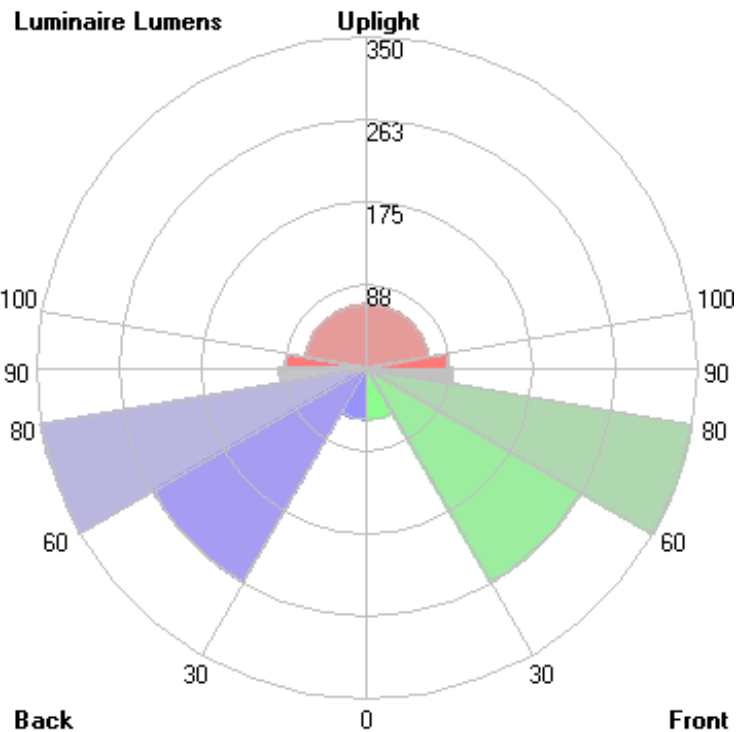
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	54.6	N.A.	3.3
FM (30-60)	261.4	N.A.	15.7
FH (60-80)	350.3	N.A.	21.0
FVH(80-90)	91.8	N.A.	5.5
BL (0-30)	54.6	N.A.	3.3
BM (30-60)	261.4	N.A.	15.7
BH (60-80)	350.3	N.A.	21.0
BVH(80-90)	91.8	N.A.	5.5
UL (90-100)	85.3	N.A.	5.1
UH (100-180)	66.3	N.A.	4.0
Total	1667.8	N.A.	100.0

BUG Rating B1-U3-G1



Mounted to 99622 bollard tube

Grid Spacing: 5 ft.



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

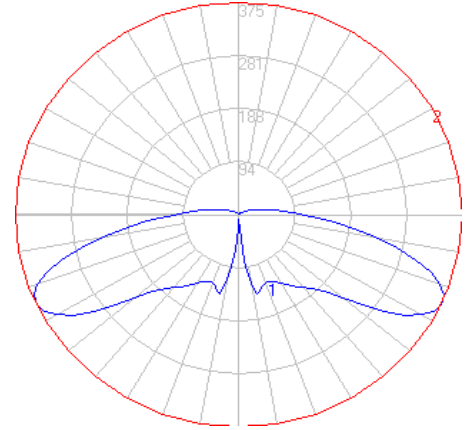
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BEGA

File: 84244K35_BEGA_IES.ies

TEST: BE_84244K4
 TEST LAB: BEGA
 DATE: 07/23/2020
 LUMINAIRE: 84 244K35
 LAMP: 15.6W LED



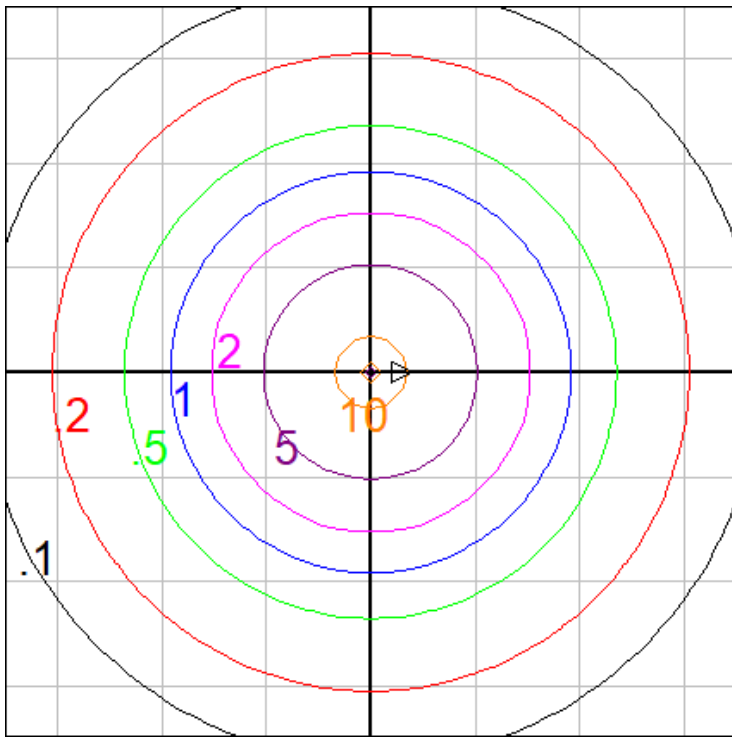
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1634
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	21
Ballast Factor	1.00
Upward Waste Light Ratio	0.09
Max. Cd.	375.046 (0H, 65V)
Max. Cd. (<90 Vert.)	375.046 (0H, 65V)
Max. Cd. (At 90 Deg. Vert.)	109.466 (6.7%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	233.24 (14.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

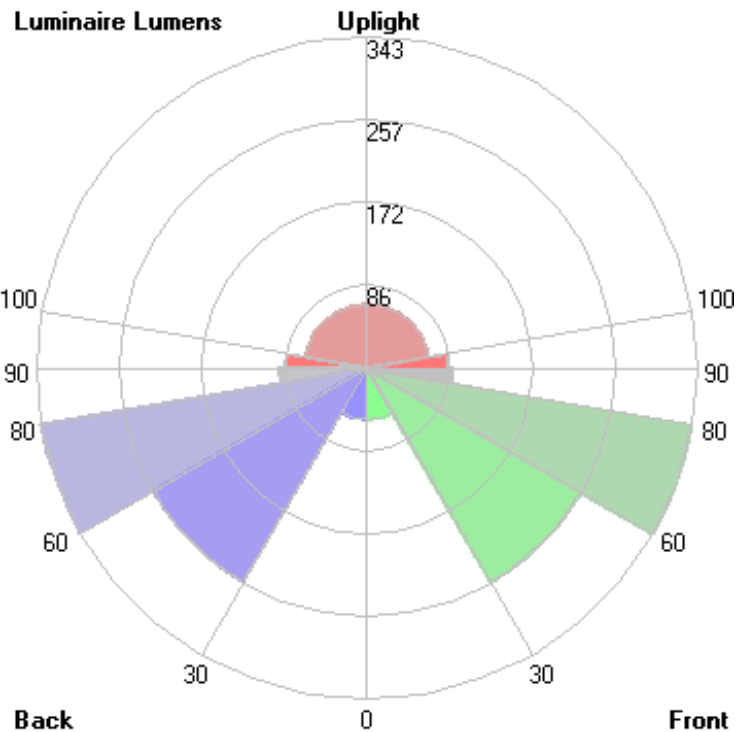
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	53.5	N.A.	3.3
FM (30-60)	256.1	N.A.	15.7
FH (60-80)	343.2	N.A.	21.0
FVH(80-90)	90.0	N.A.	5.5
BL (0-30)	53.5	N.A.	3.3
BM (30-60)	256.1	N.A.	15.7
BH (60-80)	343.2	N.A.	21.0
BVH(80-90)	90.0	N.A.	5.5
UL (90-100)	83.6	N.A.	5.1
UH (100-180)	64.9	N.A.	4.0
Total	1634.1	N.A.	100.0

BUG Rating B1-U3-G1



Mounted to 99622 bollard tube

Grid Spacing: 5 ft.



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

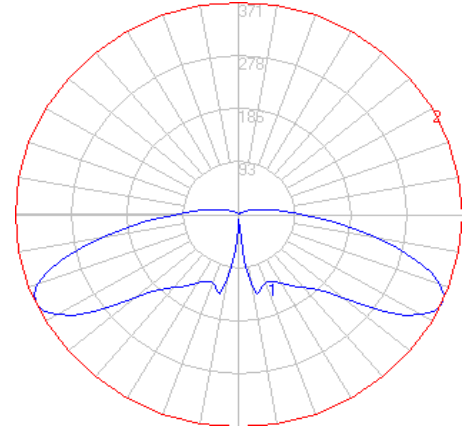
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BEGA

File: 84244K3_BEGA_IES.ies

TEST: BE_84244K4
 TEST LAB: BEGA
 DATE: 07/23/2020
 LUMINAIRE: 84244K3
 LAMP: 15.6W LED



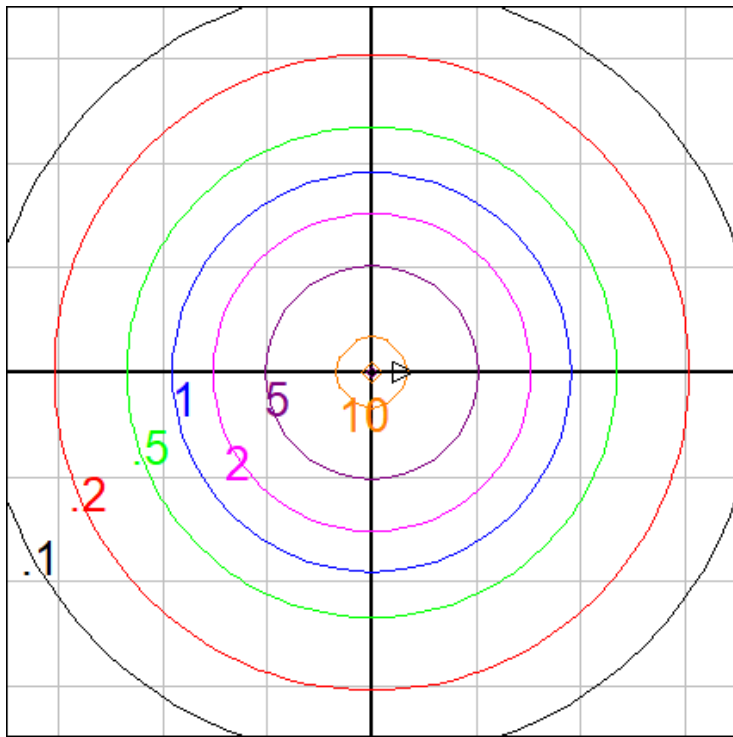
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1617
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	21
Ballast Factor	1.00
Upward Waste Light Ratio	0.09
Max. Cd.	371.219 (0H, 65V)
Max. Cd. (<90 Vert.)	371.219 (0H, 65V)
Max. Cd. (At 90 Deg. Vert.)	108.349 (6.7%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	230.86 (14.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

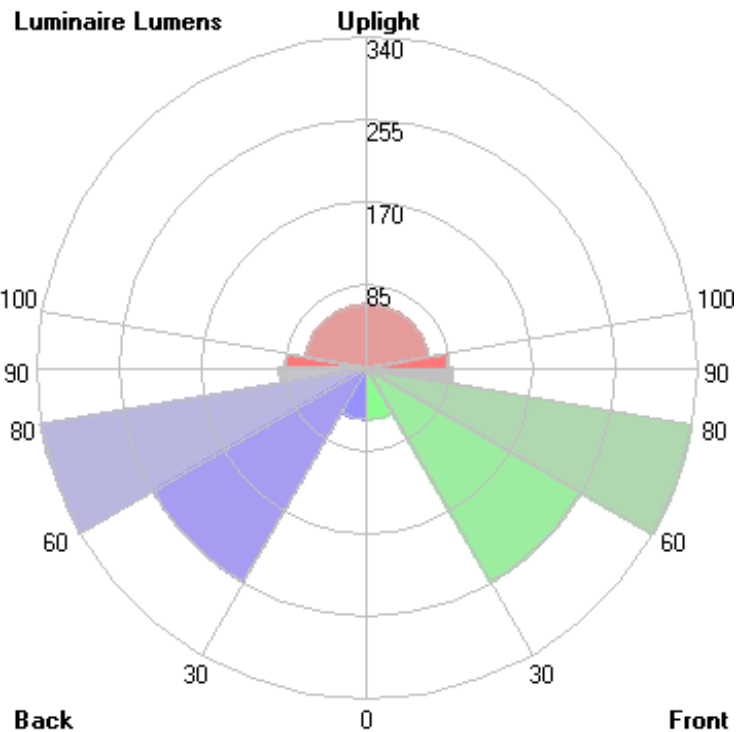
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	52.9	N.A.	3.3
FM (30-60)	253.5	N.A.	15.7
FH (60-80)	339.7	N.A.	21.0
FVH(80-90)	89.1	N.A.	5.5
BL (0-30)	52.9	N.A.	3.3
BM (30-60)	253.5	N.A.	15.7
BH (60-80)	339.7	N.A.	21.0
BVH(80-90)	89.1	N.A.	5.5
UL (90-100)	82.7	N.A.	5.1
UH (100-180)	64.3	N.A.	4.0
Total	1617.4	N.A.	100.0

BUG Rating B1-U3-G1



Mounted to 99622 bollard tube

Grid Spacing: 5 ft.



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

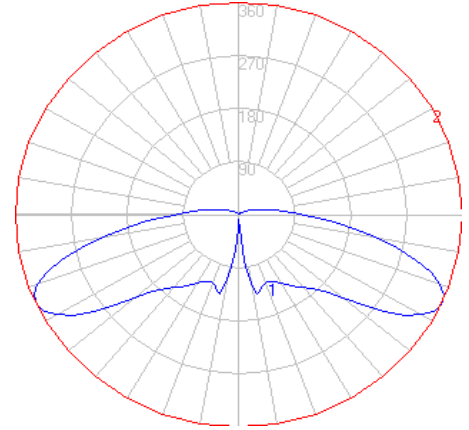
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BEGA

File: 84244K27_BEGA_IES.ies

TEST: BE_84244K4
TEST LAB: BEGA
DATE: 07/23/2020
LUMINAIRE: 84244K27
LAMP: 15.6W LED



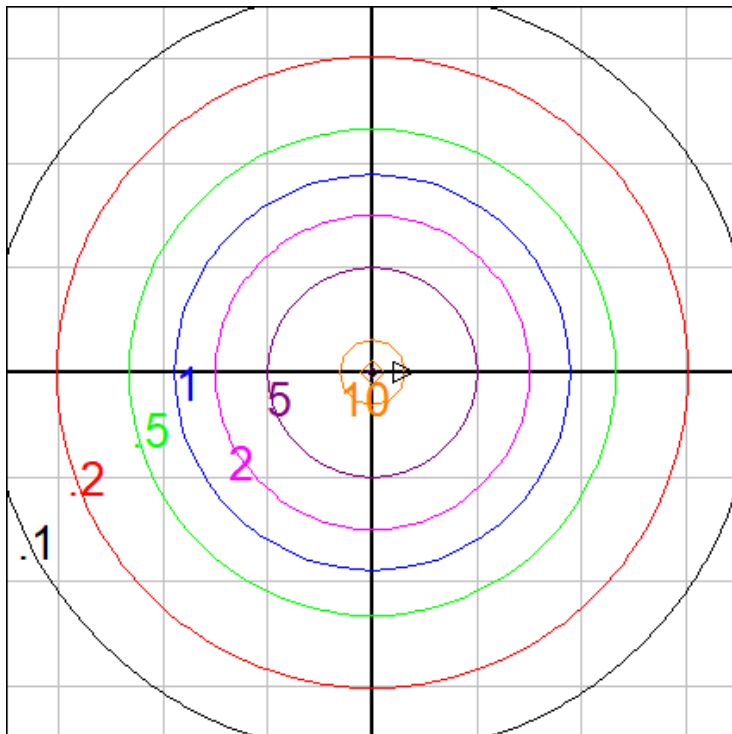
Characteristics

IES Classification	Type V
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1567
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	21
Ballast Factor	1.00
Upward Waste Light Ratio	0.09
Max. Cd.	359.738 (0H, 65V)
Max. Cd. (<90 Vert.)	359.738 (0H, 65V)
Max. Cd. (At 90 Deg. Vert.)	104.998 (6.7%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	223.72 (14.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	51.3	N.A.	3.3
FM (30-60)	245.7	N.A.	15.7
FH (60-80)	329.2	N.A.	21.0
FVH(80-90)	86.3	N.A.	5.5
BL (0-30)	51.3	N.A.	3.3
BM (30-60)	245.7	N.A.	15.7
BH (60-80)	329.2	N.A.	21.0
BVH(80-90)	86.3	N.A.	5.5
UL (90-100)	80.1	N.A.	5.1
UH (100-180)	62.3	N.A.	4.0
Total	1567.4	N.A.	100.0

BUG Rating B1-U3-G1



Mounted to 99622 bollard tube

Grid Spacing: 5 ft.

Luminaire Lumens

Uplight

