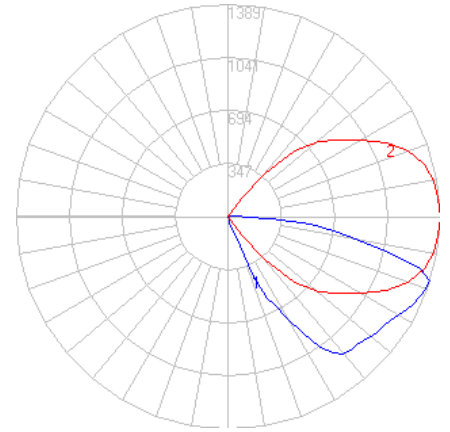
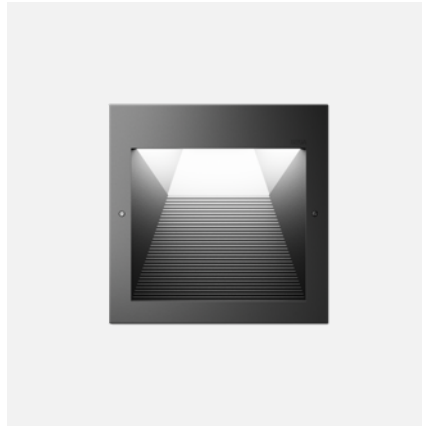


BEGA

File: 24212K4_BEGA_IES.ies

TEST: BE_24212K4
TEST LAB: BEGA
DATE: 5/2/2017
LUMINAIRE: 24 212K4
LAMP: 11.6W LED



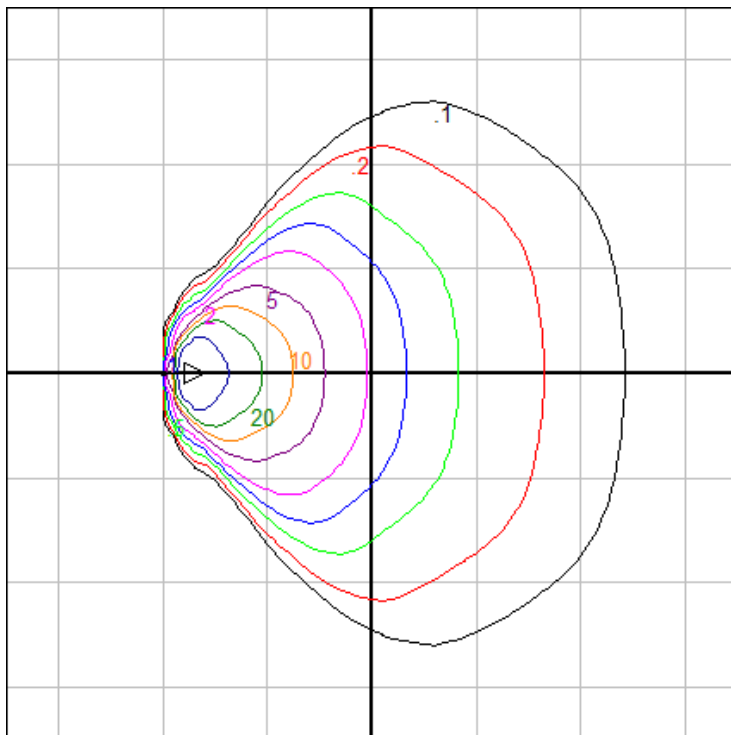
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1467
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	1388.5 (0H, 72.5V)
Max. Cd. (<90 Vert.)	1388.5 (0H, 72.5V)
Max. Cd. (At 90 Deg. Vert.)	110.7 (7.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	855.7 (58.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	53.9	N.A.	3.7
FM (30-60)	671.4	N.A.	45.8
FH (60-80)	592.8	N.A.	40.4
FVH (80-90)	130.5	N.A.	8.9
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	9.9	N.A.	0.7
UH (100-180)	8.6	N.A.	0.6
Total	1467.1	N.A.	100.0

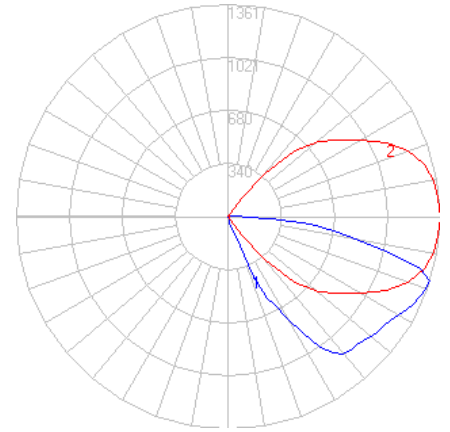
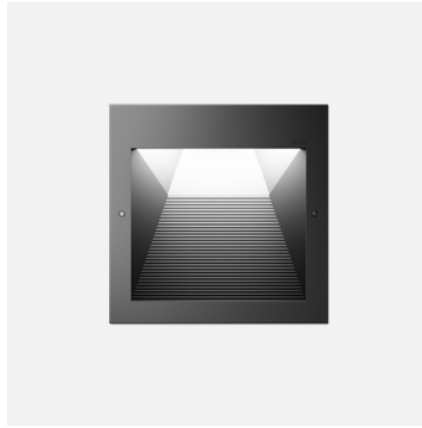
BUG Rating B0-U1-G2



BEGA

File: 24212K35_BEGA_IES.ies

TEST: BE_24212K4
TEST LAB: BEGA
DATE: 5/2/2017
LUMINAIRE: 24 212K35
LAMP: 11.6W LED



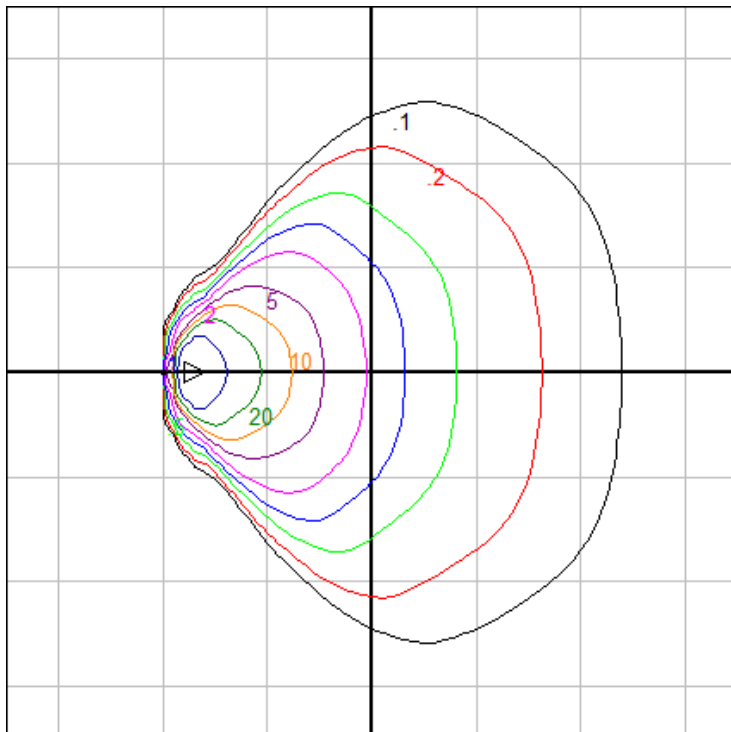
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1438
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	1360.73 (0H, 72.5V)
Max. Cd. (<90 Vert.)	1360.73 (0H, 72.5V)
Max. Cd. (At 90 Deg. Vert.)	108.486 (7.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	838.586 (58.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	52.8	N.A.	3.7
FM (30-60)	657.9	N.A.	45.8
FH (60-80)	581.0	N.A.	40.4
FVH (80-90)	127.9	N.A.	8.9
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	9.7	N.A.	0.7
UH (100-180)	8.4	N.A.	0.6
Total	1437.7	N.A.	100.0

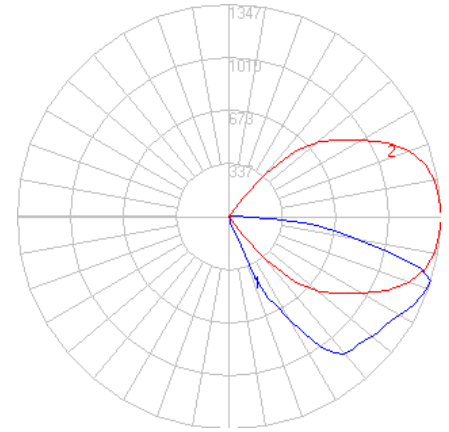
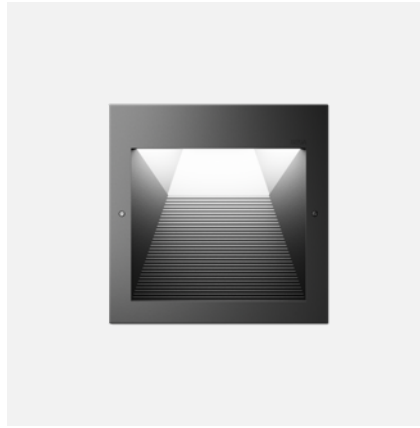
BUG Rating B0-U1-G2



BEGA

File: 24212K3_BEGA_IES.ies

TEST: BE_24212K4
TEST LAB: BEGA
DATE: 5/2/2017
LUMINAIRE: 24 212K3
LAMP: 11.6W LED



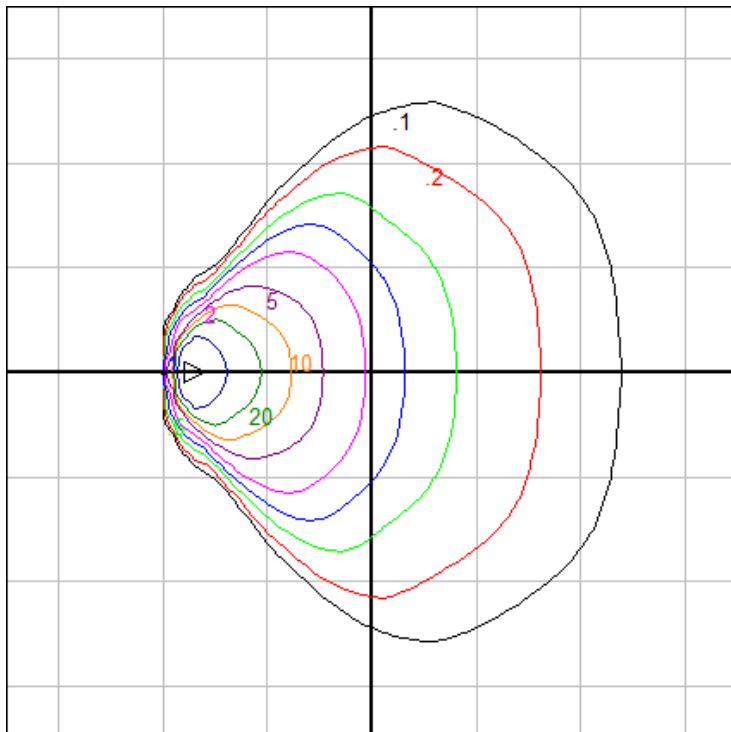
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1423
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	1346.845 (0H, 72.5V)
Max. Cd. (<90 Vert.)	1346.845 (0H, 72.5V)
Max. Cd. (At 90 Deg. Vert.)	107.379 (7.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	830.029 (58.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

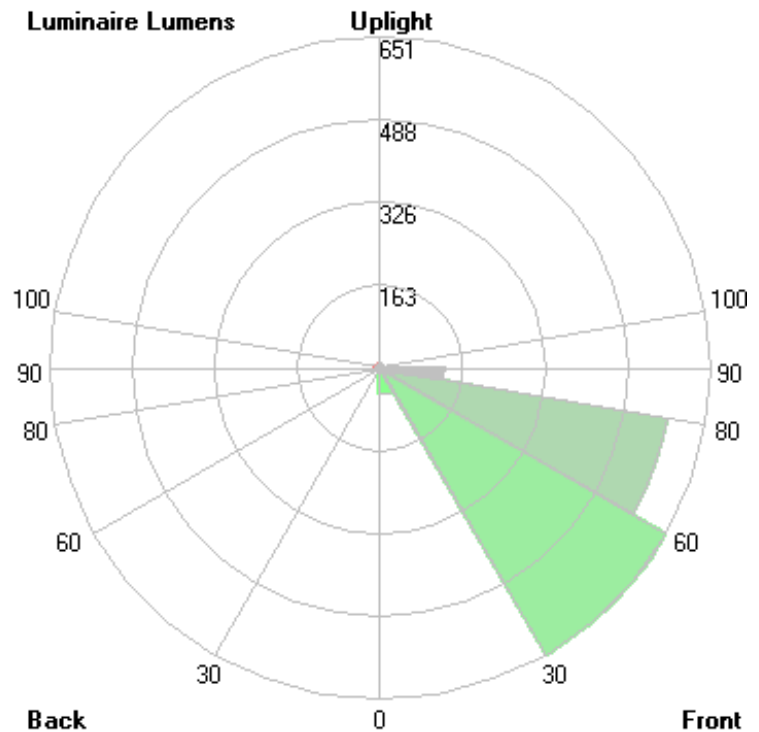
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	52.3	N.A.	3.7
FM (30-60)	651.2	N.A.	45.8
FH (60-80)	575.1	N.A.	40.4
FVH (80-90)	126.6	N.A.	8.9
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	9.6	N.A.	0.7
UH (100-180)	8.4	N.A.	0.6
Total	1423.2	N.A.	100.0

BUG Rating **B0-U1-G2**



Mounting Height: 2 ft.

Grid Spacing: 5 ft.

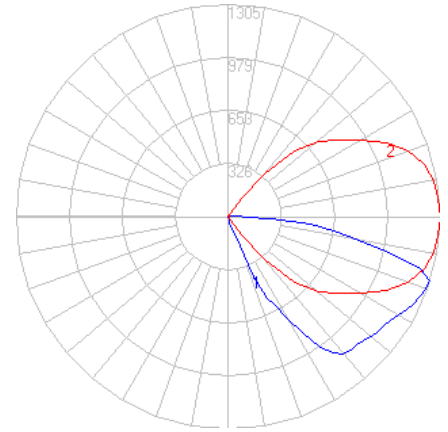
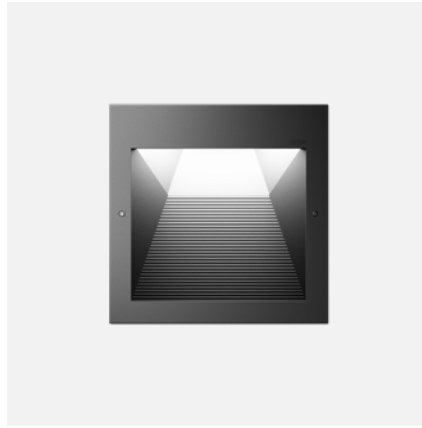


In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

BEGA

File: 24212K27_BEGA_IES.ies

TEST: BE_24212K4
TEST LAB: BEGA
DATE: 5/2/2017
LUMINAIRE: 24 212K27
LAMP: 11.6W LED



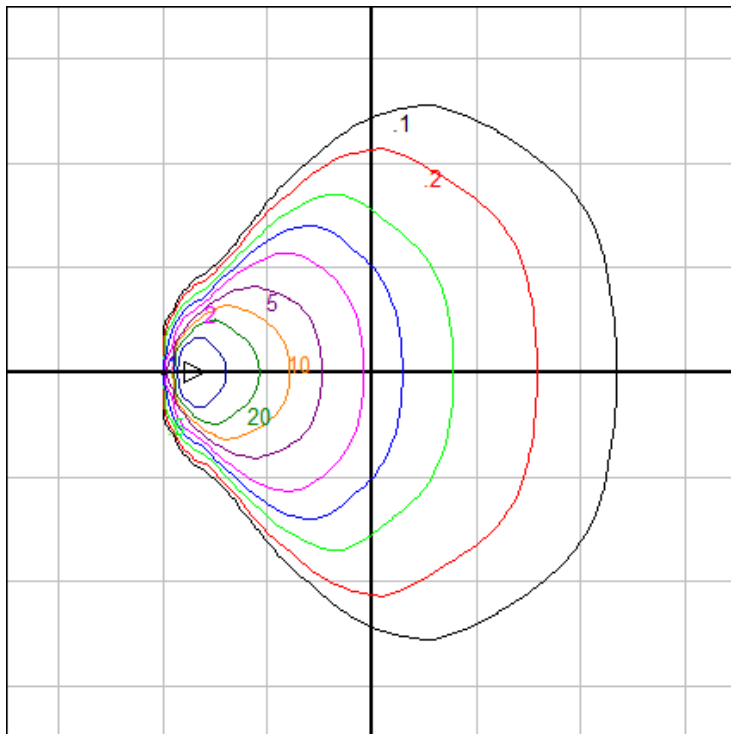
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1379
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	15
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	1305.19 (0H, 72.5V)
Max. Cd. (<90 Vert.)	1305.19 (0H, 72.5V)
Max. Cd. (At 90 Deg. Vert.)	104.058 (7.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	804.358 (58.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

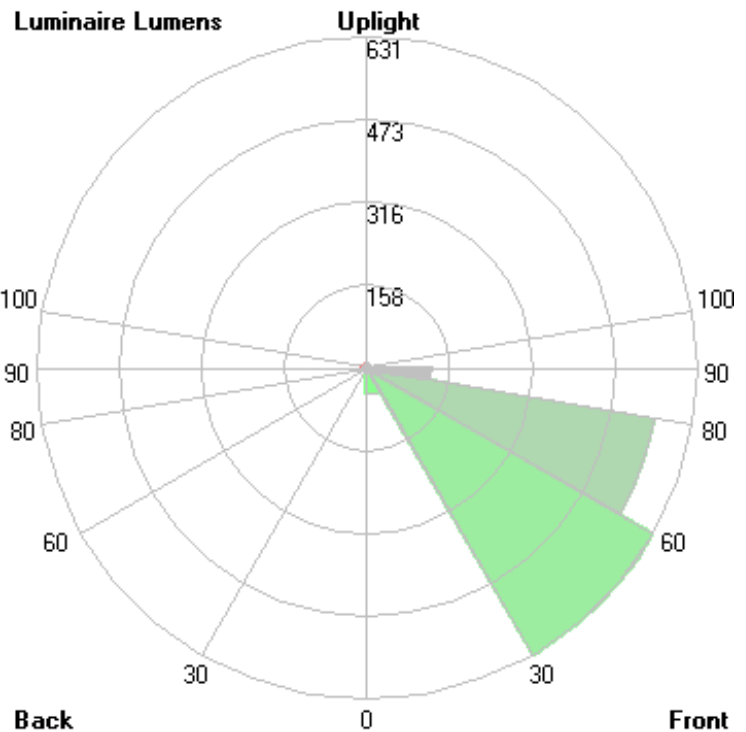
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	50.7	N.A.	3.7
FM (30-60)	631.1	N.A.	45.8
FH (60-80)	557.3	N.A.	40.4
FVH (80-90)	122.7	N.A.	8.9
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	9.3	N.A.	0.7
UH (100-180)	8.1	N.A.	0.6
Total	1379.2	N.A.	100.0

BUG Rating B0-U1-G2



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



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

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11/22/2020