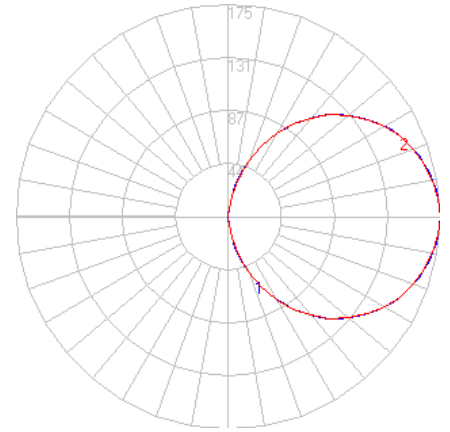


BEGA

File: 24017K4_BEGA_IES.ies

TEST: BE_24017K4
TEST LAB: BEGA
DATE: 4/11/2016
LUMINAIRE: 24 017K4
LAMP: 3.7W LED



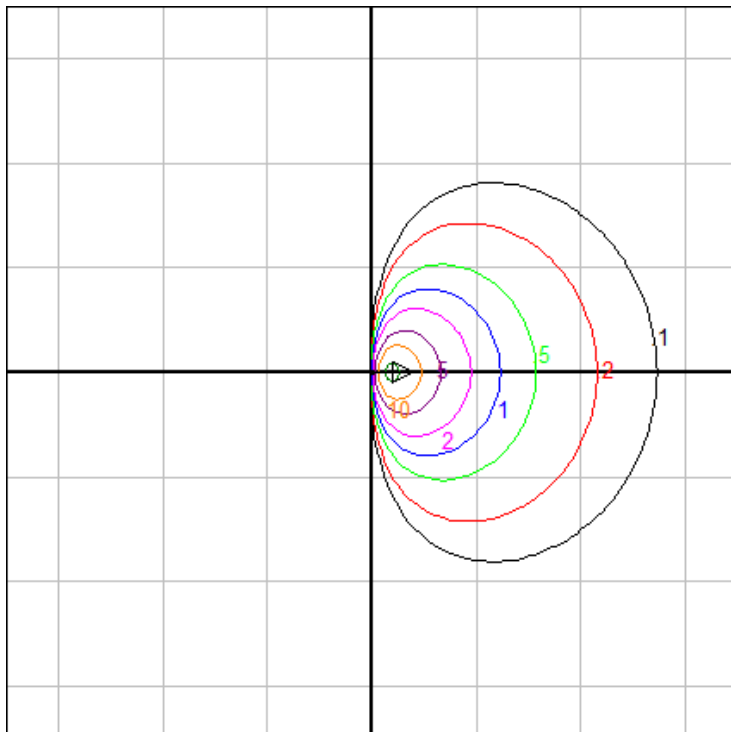
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	503
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	6
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	174.8 (0H, 90V)
Max. Cd. (<90 Vert.)	174.5 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	174.8 (34.8%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	174.5 (34.7%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

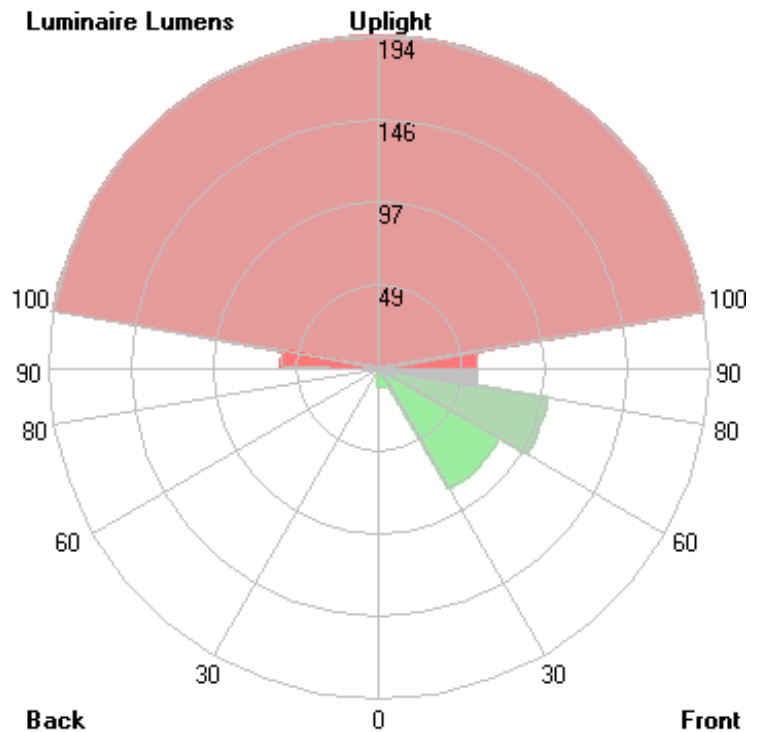
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	11.5	N.A.	2.3
FM (30-60)	82.1	N.A.	16.3
FH (60-80)	100.5	N.A.	20.0
FVH (80-90)	57.3	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	57.3	N.A.	11.4
UH (100-180)	194.1	N.A.	38.6
Total	502.8	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 1.5 ft.

Grid Spacing: 5 ft.



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

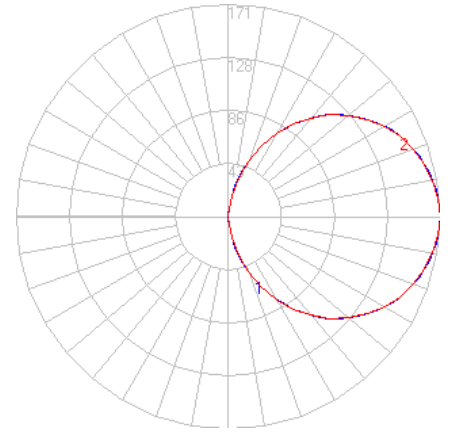
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BEGA

File: 24017K35_BEGA_IES.ies

TEST: BE_24017K4
TEST LAB: BEGA
DATE: 4/11/2016
LUMINAIRE: 24 017K35
LAMP: 3.7W LED



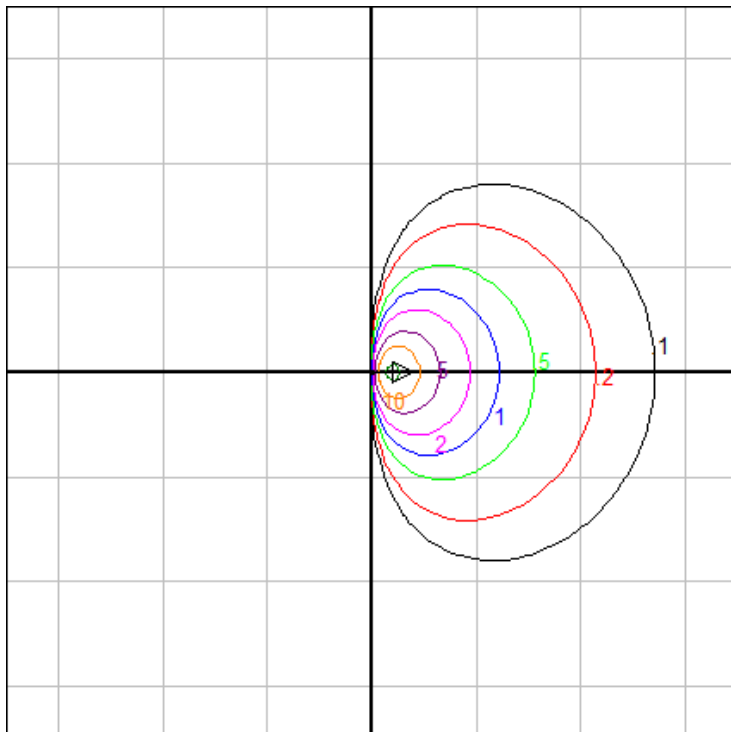
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	493
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	6
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	171.304 (0H, 90V)
Max. Cd. (<90 Vert.)	171.01 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	171.304 (34.7%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	171.01 (34.7%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

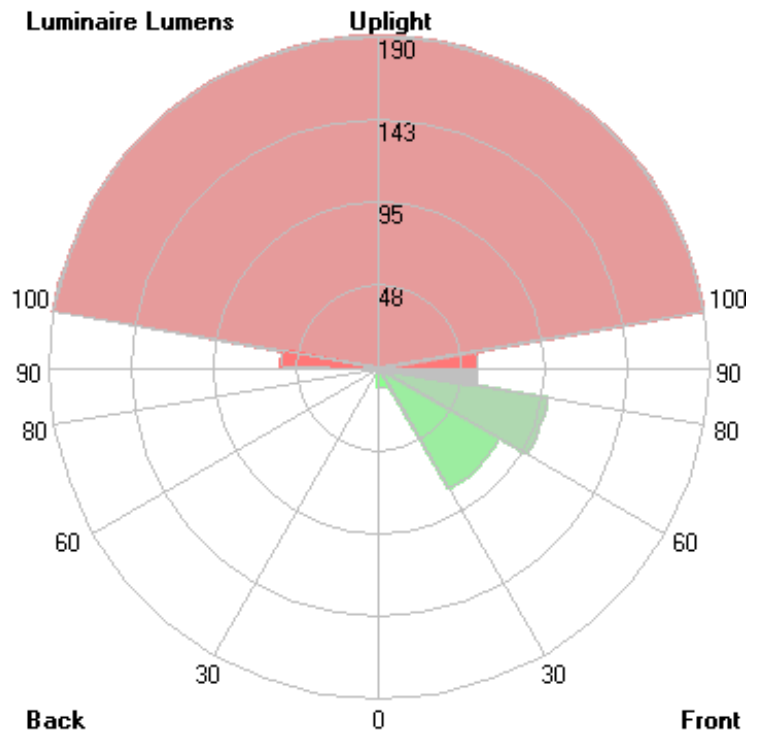
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	11.3	N.A.	2.3
FM (30-60)	80.5	N.A.	16.3
FH (60-80)	98.4	N.A.	20.0
FVH (80-90)	56.2	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	56.2	N.A.	11.4
UH (100-180)	190.2	N.A.	38.6
Total	492.8	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 1.5 ft.

Grid Spacing: 5 ft.



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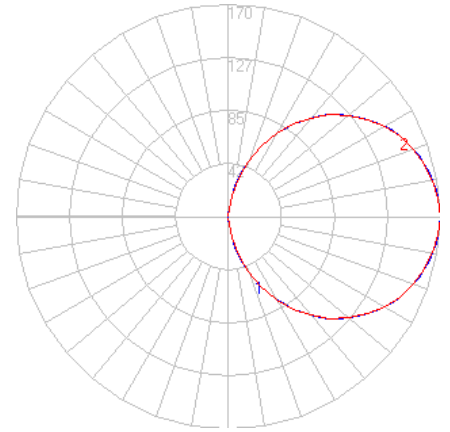
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File: 24017K3_BEGA_IES.ies

TEST: BE_24017K4
TEST LAB: BEGA
DATE: 4/11/2016
LUMINAIRE: 24 017K3
LAMP: 3.7W LED



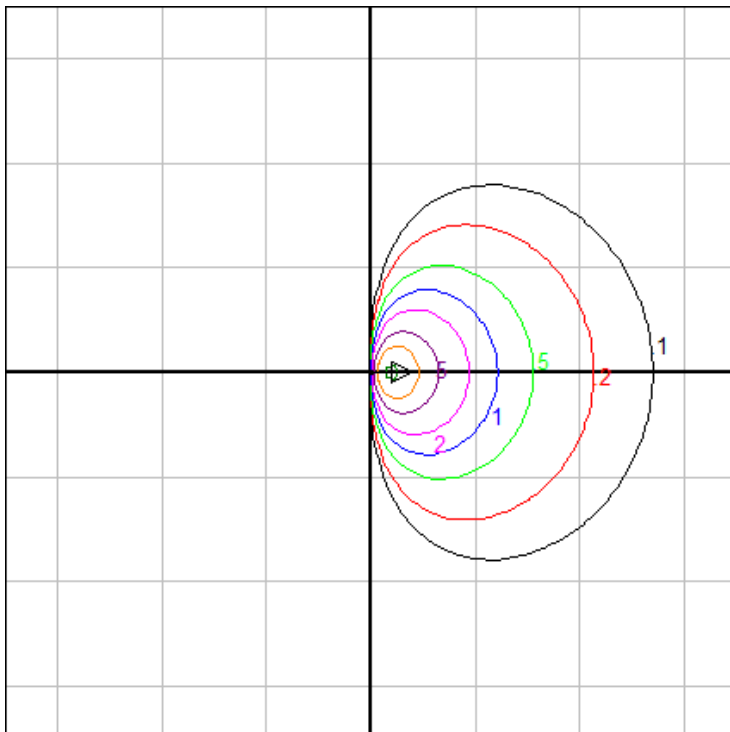
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	488
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	6
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	169.556 (0H, 90V)
Max. Cd. (<90 Vert.)	169.265 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	169.556 (34.7%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	169.265 (34.7%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

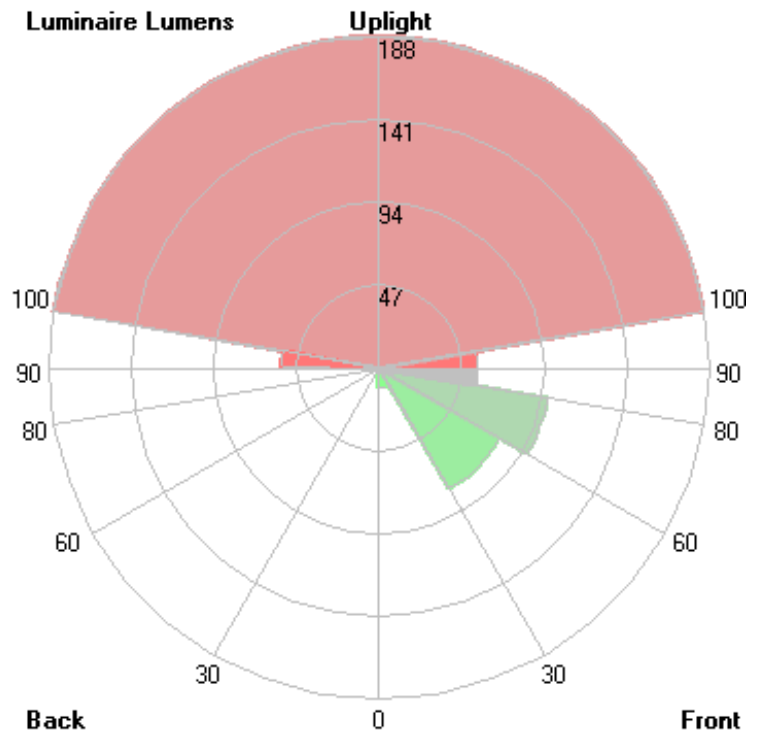
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	11.2	N.A.	2.3
FM (30-60)	79.6	N.A.	16.3
FH (60-80)	97.4	N.A.	20.0
FVH (80-90)	55.6	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	55.6	N.A.	11.4
UH (100-180)	188.3	N.A.	38.6
Total	487.7	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 1.5 ft.

Grid Spacing: 5 ft.



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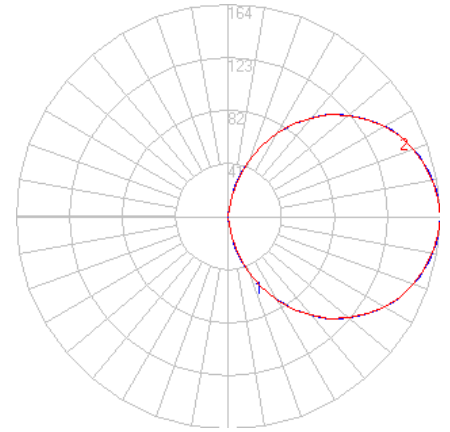
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BEGA

File: 24017K27_BEGA_IES.ies

TEST: BE_24017K4
TEST LAB: BEGA
DATE: 4/11/2016
LUMINAIRE: 24 017K27
LAMP: 3.7W LED



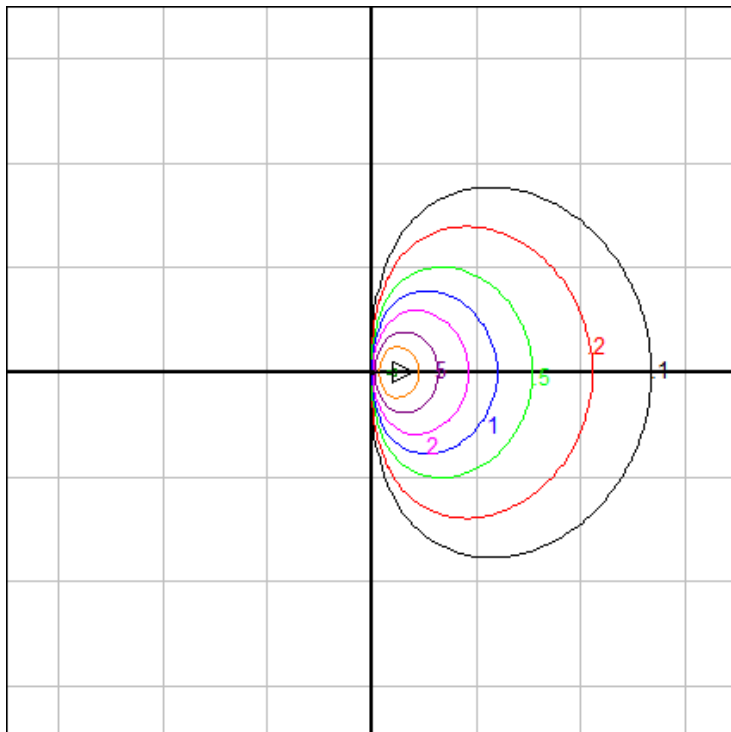
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	473
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	6
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	164.312 (0H, 90V)
Max. Cd. (<90 Vert.)	164.03 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	164.312 (34.7%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	164.03 (34.7%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

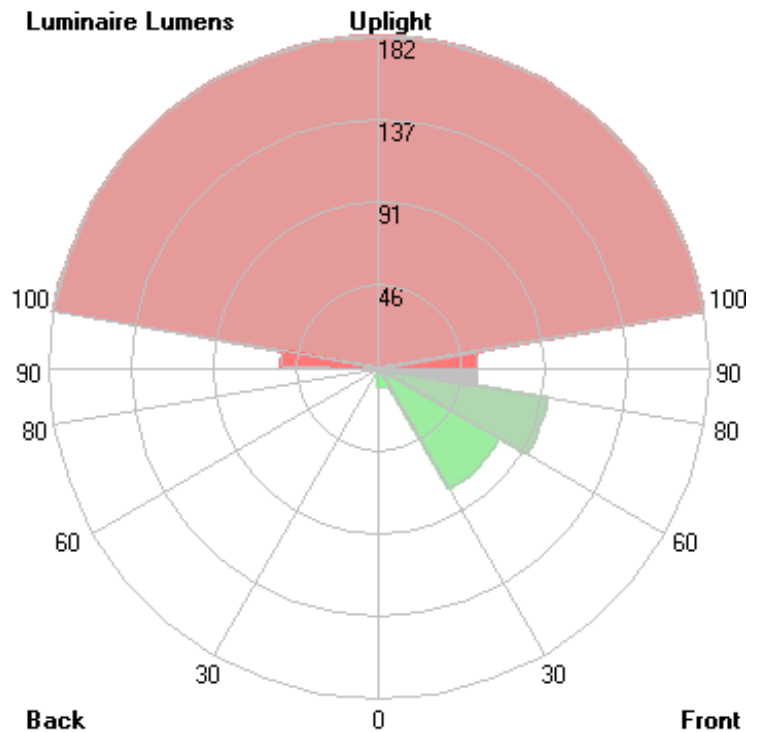
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	10.8	N.A.	2.3
FM (30-60)	77.2	N.A.	16.3
FH (60-80)	94.4	N.A.	20.0
FVH (80-90)	53.9	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	53.9	N.A.	11.4
UH (100-180)	182.4	N.A.	38.6
Total	472.6	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 1.5 ft.

Grid Spacing: 5 ft.



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