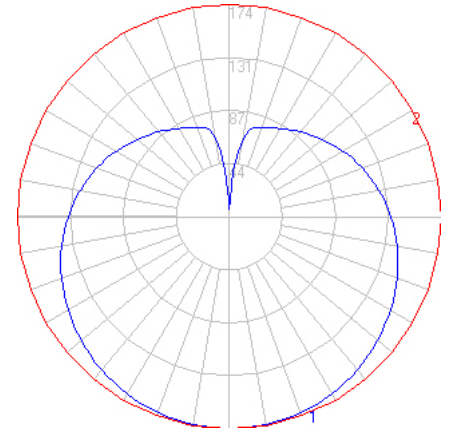
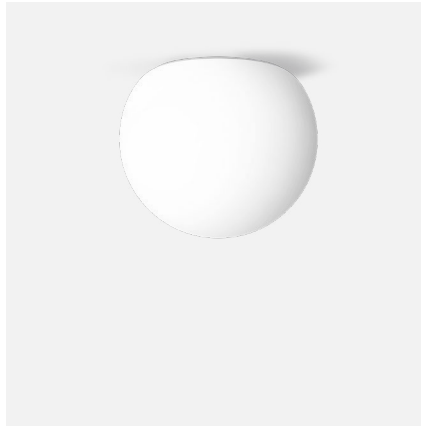


BEGA

File: 50636K4_BEGA_IES.IES

TEST: BE_50636K4
 TEST LAB: BEGA
 DATE: 06/09/2018
 LUMINAIRE: 50 636K4
 LAMP: 13.5W LED

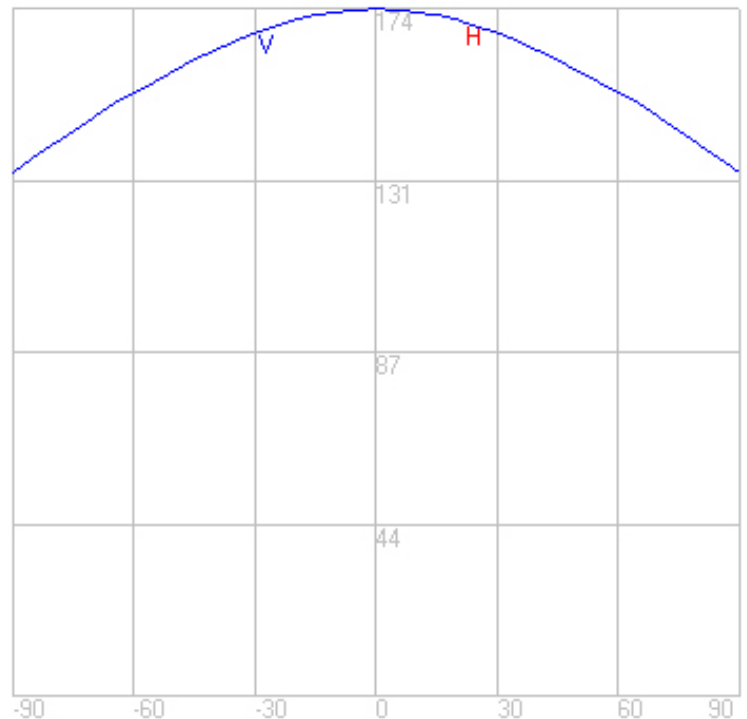
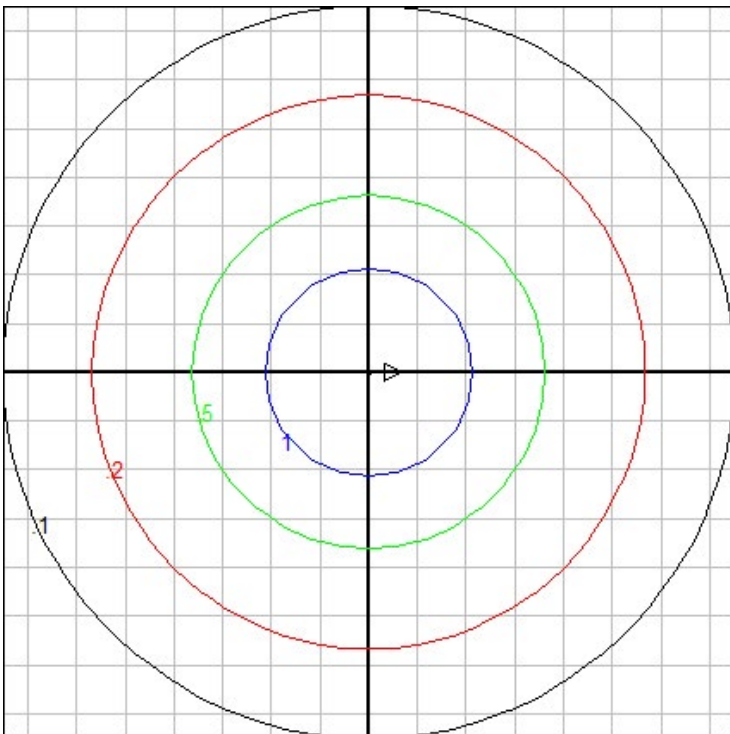


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1626
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	17
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Sphere
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.98 ft (Diameter)
Luminous Height	0.98 ft (Diameter)

Zonal Lumen Summary

Zone	Lumens
0-10	16.58
10-20	48.89
20-30	78.60
30-40	104.28
40-50	124.91
50-60	139.97
60-70	149.04
70-80	151.88
80-90	148.87
90-100	140.43
100-110	127.51
110-120	111.19
120-130	92.68
130-140	73.39
140-150	54.72
150-160	37.38
160-170	21.09
170-180	4.35



Mounting Height: 10 ft.

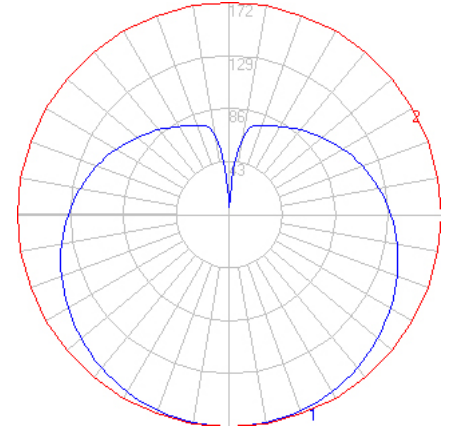
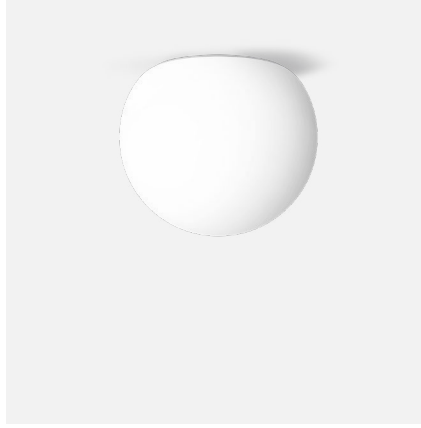
Grid Spacing: 3 ft.

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

BEGA

File: 50636K35_BEGA_IES.ies

TEST: BE_50636K4
 TEST LAB: BEGA
 DATE: 06/09/2018
 LUMINAIRE: 50 636K35
 LAMP: 13.5W LED

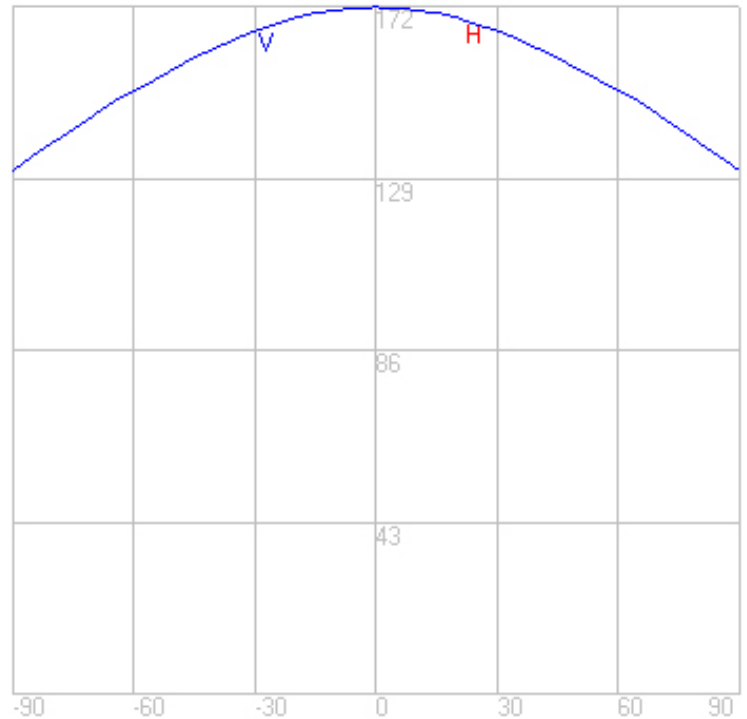
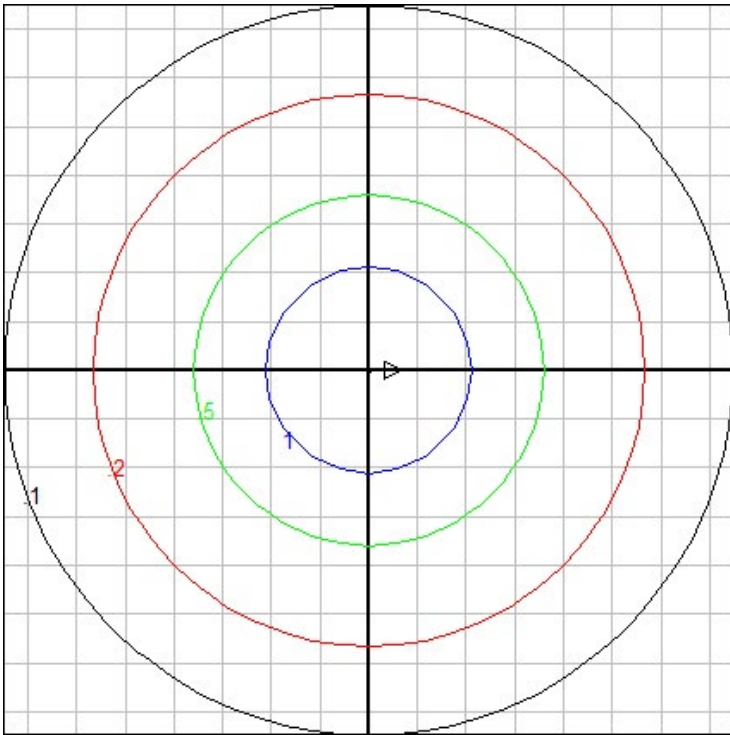


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1610
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	17
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Sphere
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.98 ft (Diameter)
Luminous Height	0.98 ft (Diameter)

Zonal Lumen Summary

Zone	Lumens
0-10	16.42
10-20	48.41
20-30	77.82
30-40	103.24
40-50	123.66
50-60	138.57
60-70	147.55
70-80	150.36
80-90	147.38
90-100	139.03
100-110	126.24
110-120	110.08
120-130	91.76
130-140	72.65
140-150	54.18
150-160	37.01
160-170	20.88
170-180	4.31



Mounting Height: 10 ft.

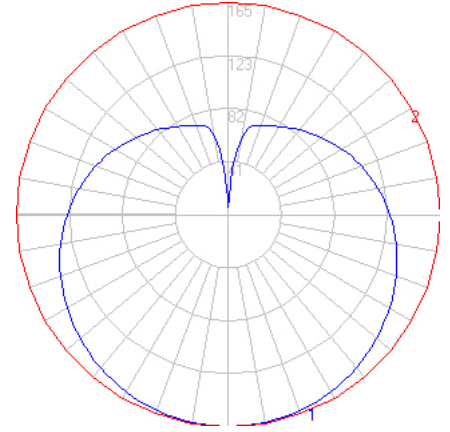
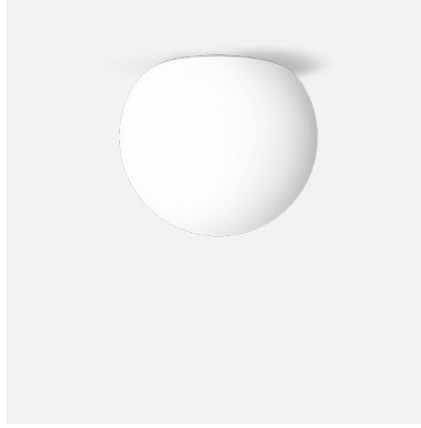
Grid Spacing: 3 ft.

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

BEGA

File: 50636K3_BEGA_IES.ies

TEST: BE_50636K4
 TEST LAB: BEGA
 DATE: 06/09/2018
 LUMINAIRE: 50 636K3
 LAMP: 13.5W LED

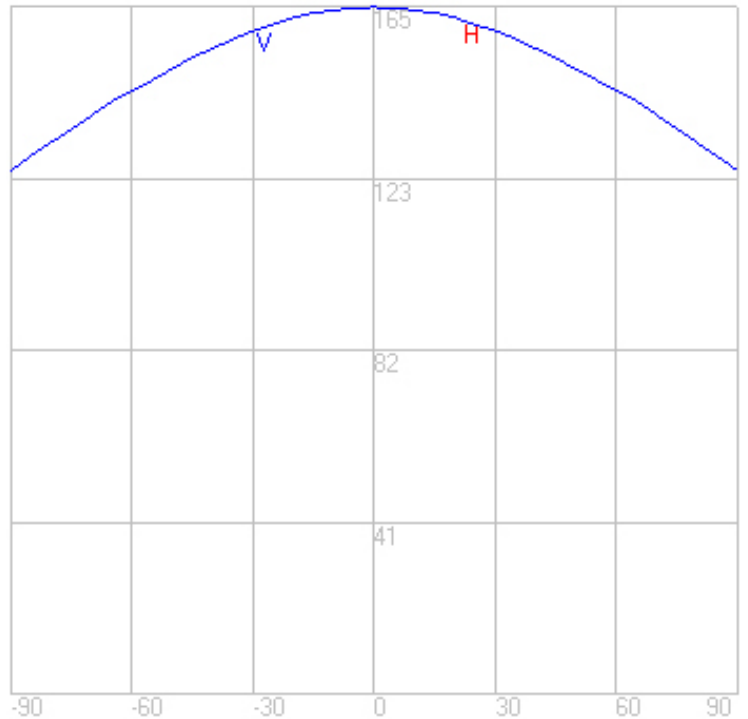
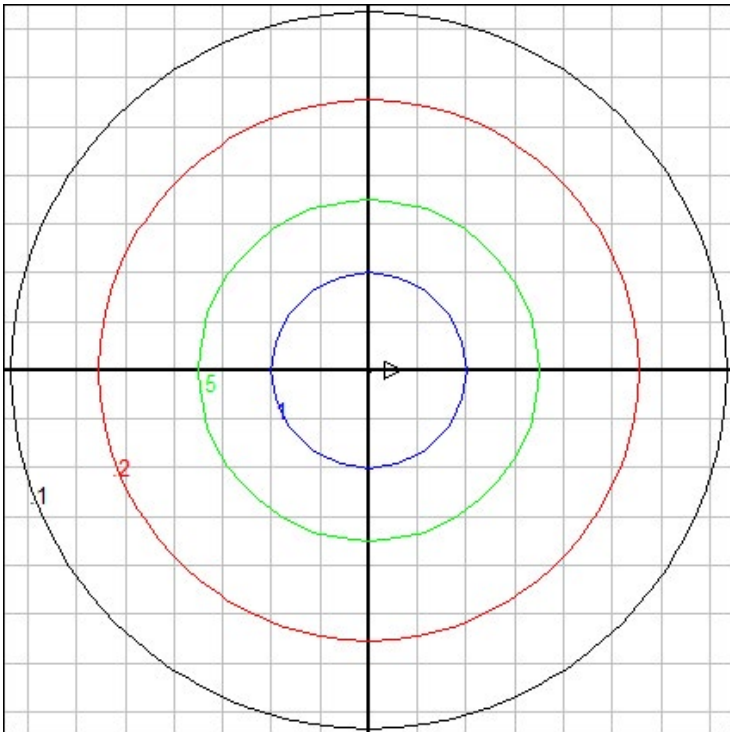


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1536
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	17
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Sphere
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.98 ft (Diameter)
Luminous Height	0.98 ft (Diameter)

Zonal Lumen Summary

Zone	Lumens
0-10	15.67
10-20	46.21
20-30	74.28
30-40	98.55
40-50	118.04
50-60	132.27
60-70	140.84
70-80	143.52
80-90	140.68
90-100	132.71
100-110	120.50
110-120	105.07
120-130	87.59
130-140	69.35
140-150	51.71
150-160	35.32
160-170	19.93
170-180	4.11



Mounting Height: 10 ft.

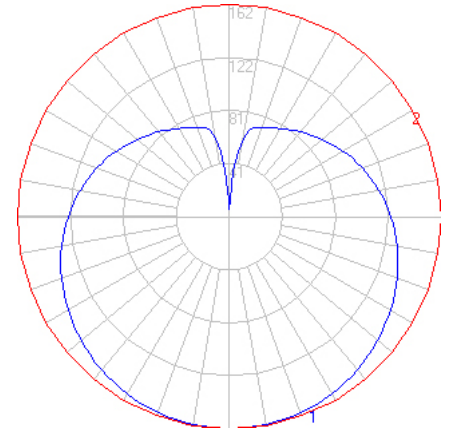
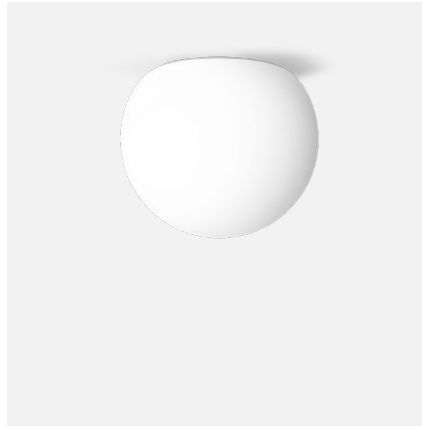
Grid Spacing: 3 ft.

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

BEGA

File: 50636K27_BEGA_IES.ies

TEST: BE_50636K4
 TEST LAB: BEGA
 DATE: 06/09/2018
 LUMINAIRE: 50 636K27
 LAMP: 13.5W LED

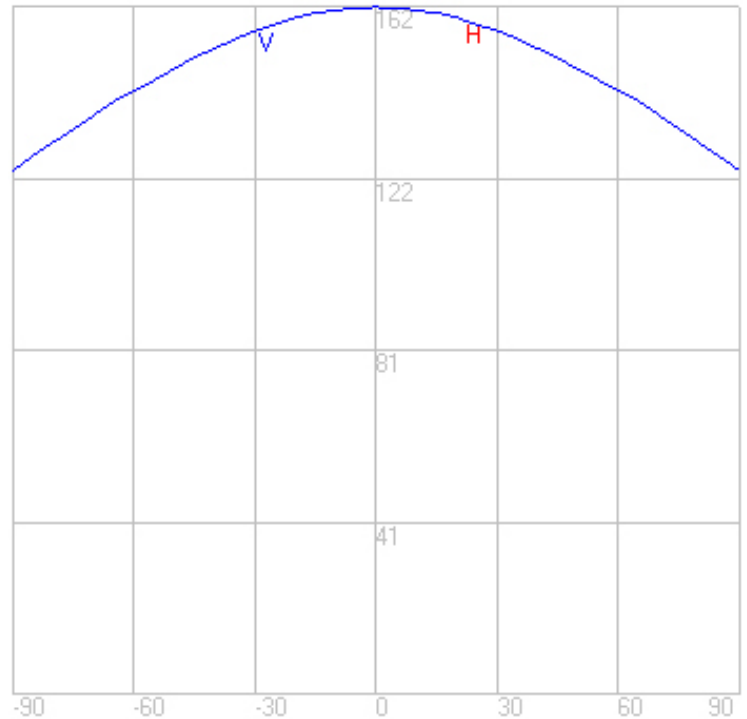
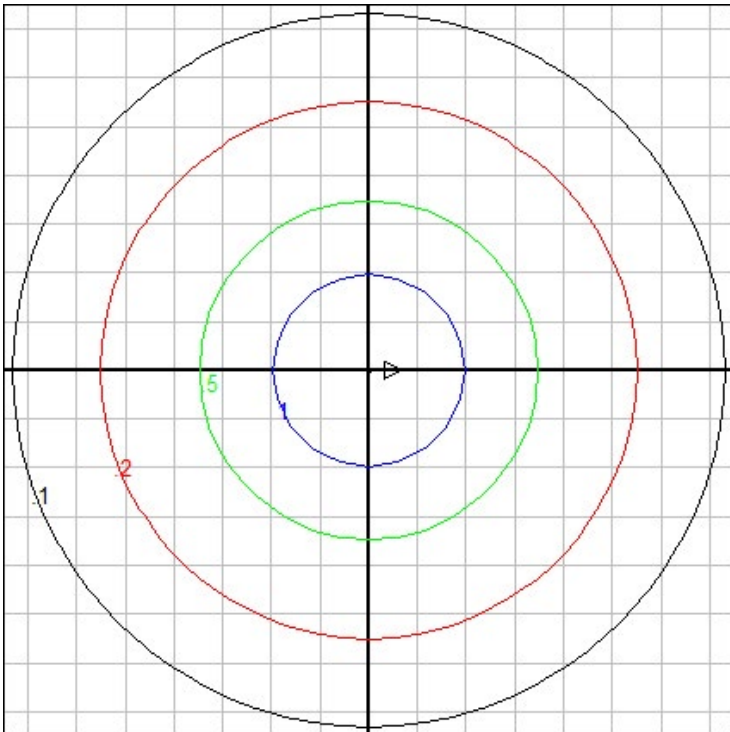


Characteristics

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1515
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	17
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Sphere
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.98 ft (Diameter)
Luminous Height	0.98 ft (Diameter)

Zonal Lumen Summary

Zone	Lumens
0-10	15.46
10-20	45.57
20-30	73.26
30-40	97.19
40-50	116.42
50-60	130.45
60-70	138.90
70-80	141.55
80-90	138.74
90-100	130.88
100-110	118.84
110-120	103.63
120-130	86.38
130-140	68.40
140-150	51.00
150-160	34.84
160-170	19.66
170-180	4.05



Mounting Height: 10 ft.

Grid Spacing: 3 ft.

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