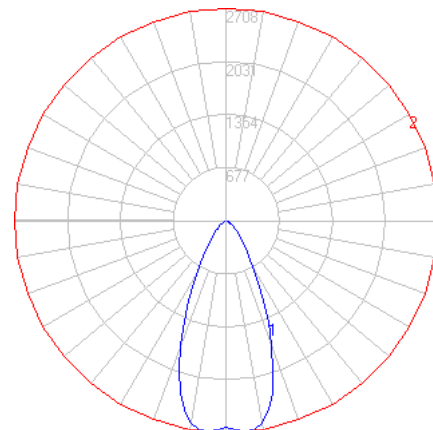
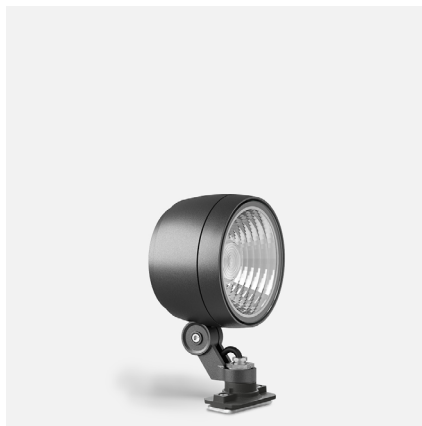


BEGA

File: 84663K4_BEGA_IES.ies

TEST: BE_84663K4
TEST LAB: BEGA
DATE: 05/07/2019
LUMINAIRE: 84 663K4
LAMP: 16.8W LED

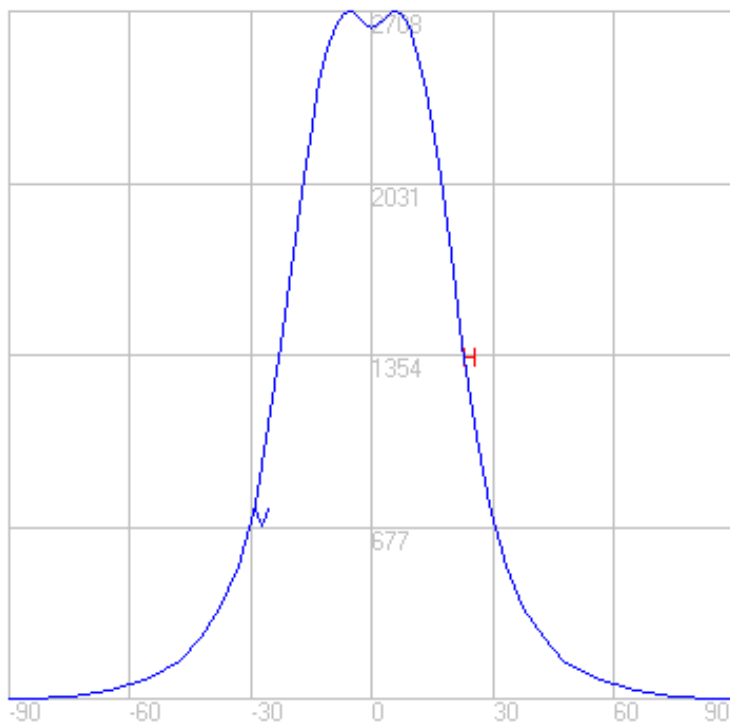
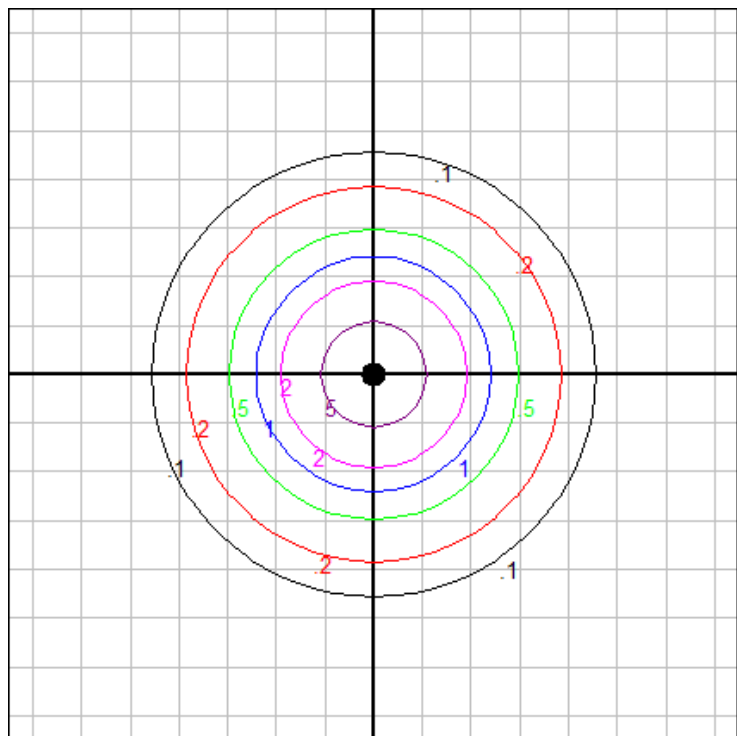


Characteristics

NEMA Type	5 H x 5 V
Maximum Candela	2707.9
Maximum Candela Angle	-5 H -1 V
Horizontal Beam Angle (50%)	44.8
Vertical Beam Angle (50%)	45.8
Horizontal Field Angle (10%)	82.0
Vertical Field Angle (10%)	82.4
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1051
Beam Efficiency	N.A.
Field Lumens	1704
Field Efficiency	N.A.
Spill Lumens	246
Luminaire Lumens	1950
Total Efficiency	N.A.
Total Luminaire Watts	20
Ballast Factor	1.00

Zonal Lumen Summary

Zone	Lumens
0-10	255.75
10-20	617.03
20-30	519.53
30-40	282.92
40-50	152.00
50-60	75.49
60-70	29.97
70-80	10.00
80-90	2.11
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 20 ft.

Grid Spacing: 5 ft.

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

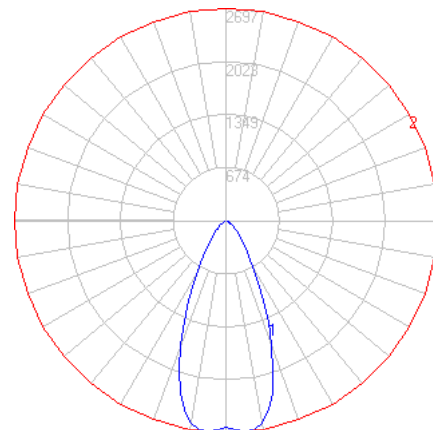
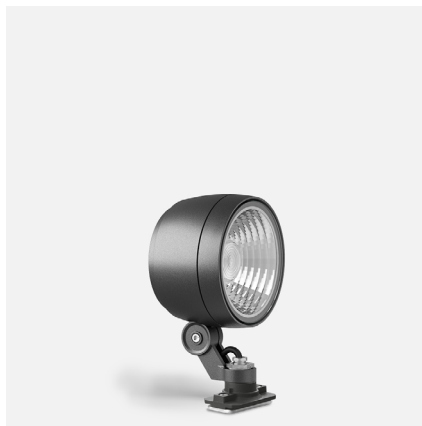
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File: 84663K35_BEGA_IES.ies

TEST: BE_84663K4
TEST LAB: BEGA
DATE: 05/07/2019
LUMINAIRE: 84 663K35
LAMP: 16.8W LED

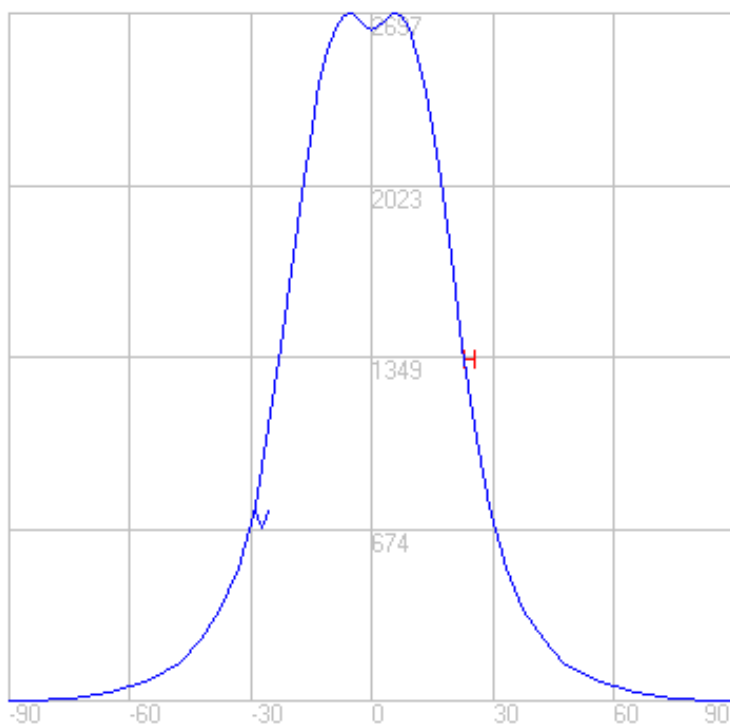
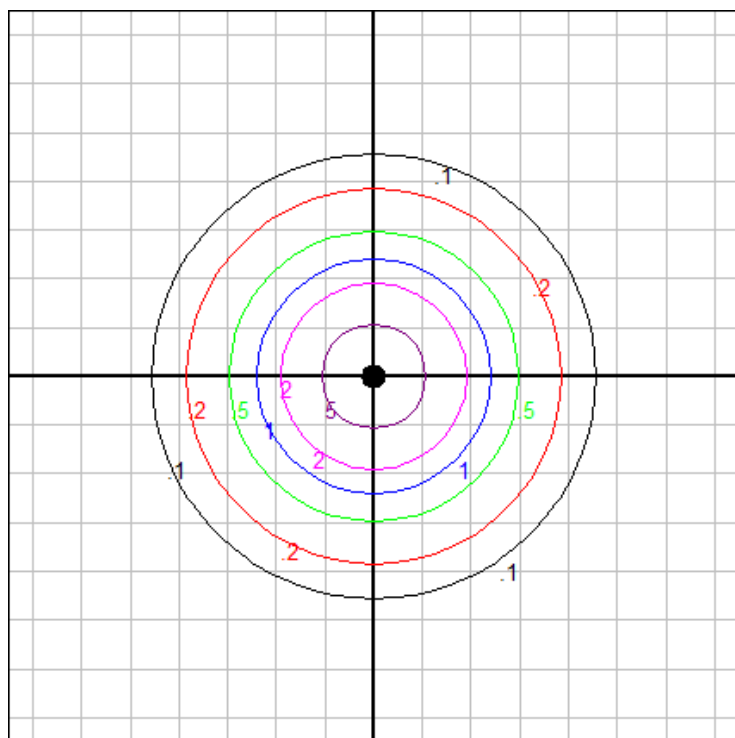


Characteristics

NEMA Type	5 H x 5 V
Maximum Candela	2697.068
Maximum Candela Angle	-5 H -1 V
Horizontal Beam Angle (50%)	44.8
Vertical Beam Angle (50%)	45.8
Horizontal Field Angle (10%)	82.0
Vertical Field Angle (10%)	82.4
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1047
Beam Efficiency	N.A.
Field Lumens	1697
Field Efficiency	N.A.
Spill Lumens	245
Luminaire Lumens	1942
Total Efficiency	N.A.
Total Luminaire Watts	20
Ballast Factor	1.00

Zonal Lumen Summary

Zone	Lumens
0-10	254.73
10-20	614.57
20-30	517.45
30-40	281.79
40-50	151.40
50-60	75.19
60-70	29.85
70-80	9.96
80-90	2.10
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 20 ft.

Grid Spacing: 5 ft.

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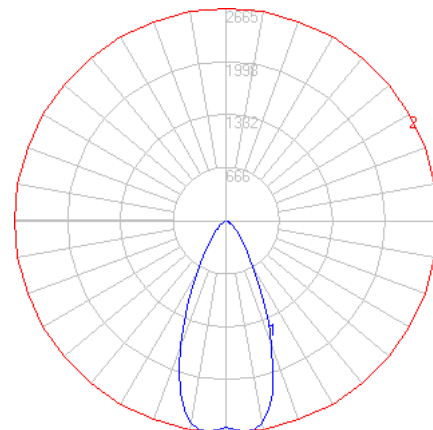
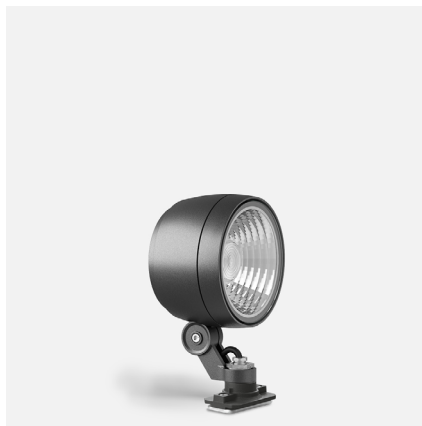
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File: 84663K3_BEGA_IES.ies

TEST: BE_84663K4
TEST LAB: BEGA
DATE: 05/07/2019
LUMINAIRE: 84 663K3
LAMP: 16.8W LED

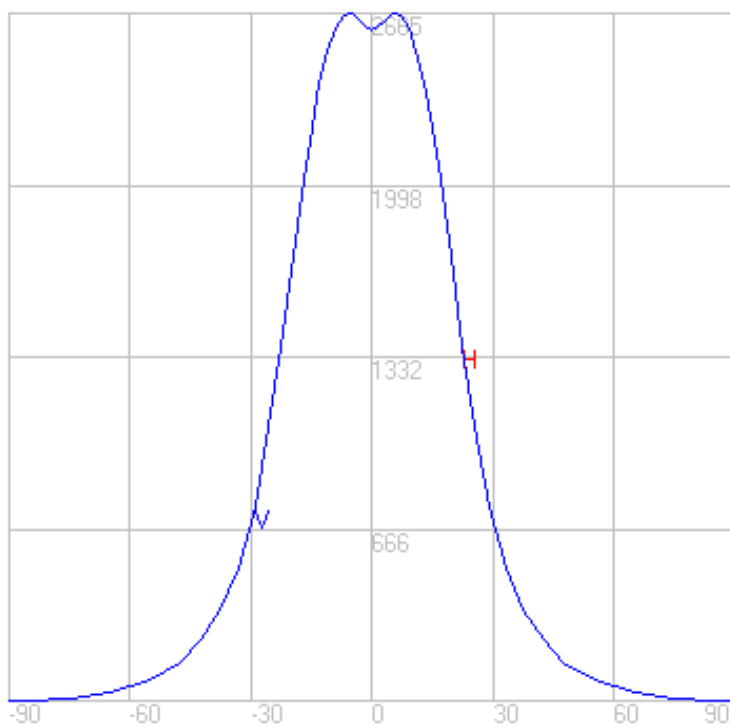
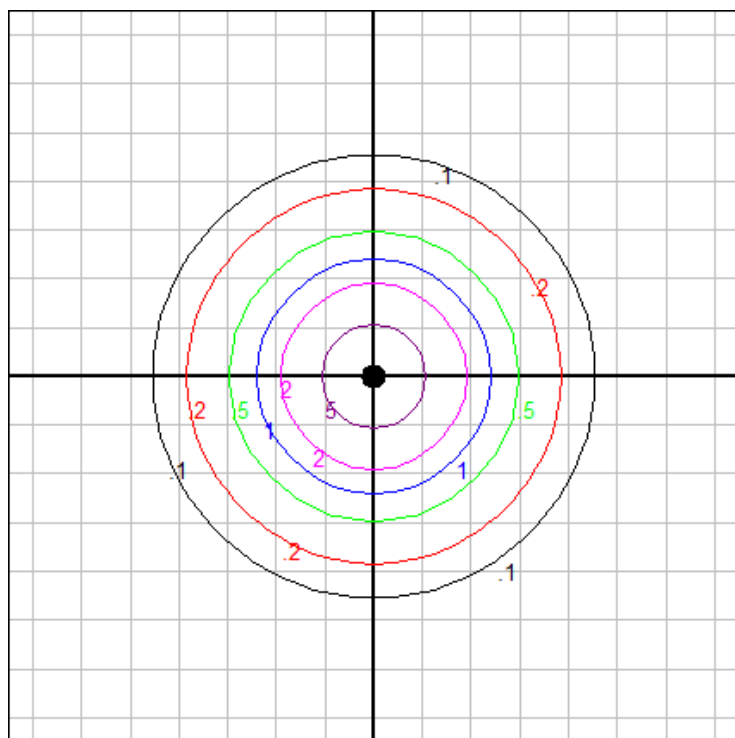


Characteristics

NEMA Type	5 H x 5 V
Maximum Candela	2664.574
Maximum Candela Angle	-5 H -1 V
Horizontal Beam Angle (50%)	44.8
Vertical Beam Angle (50%)	45.8
Horizontal Field Angle (10%)	82.0
Vertical Field Angle (10%)	82.4
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1034
Beam Efficiency	N.A.
Field Lumens	1677
Field Efficiency	N.A.
Spill Lumens	242
Luminaire Lumens	1919
Total Efficiency	N.A.
Total Luminaire Watts	20
Ballast Factor	1.00

Zonal Lumen Summary

Zone	Lumens
0-10	251.66
10-20	607.16
20-30	511.21
30-40	278.39
40-50	149.57
50-60	74.28
60-70	29.49
70-80	9.84
80-90	2.07
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 20 ft.

Grid Spacing: 5 ft.

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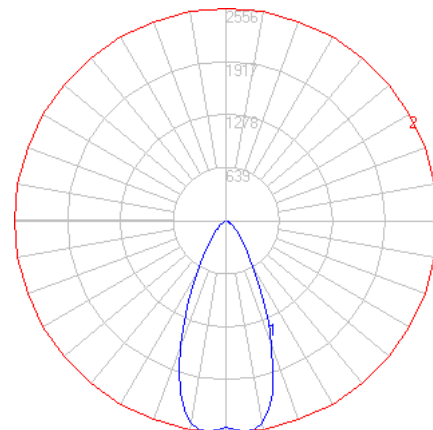
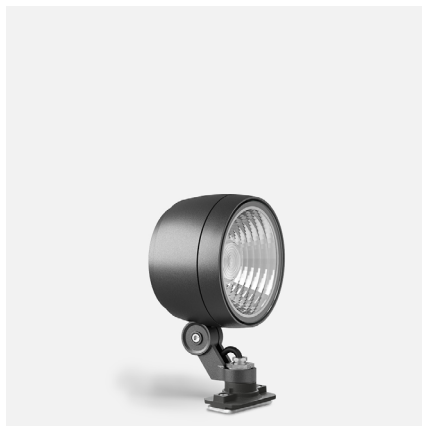
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File: 84663K27_BEGA_IES.ies

TEST: BE_84663K4
TEST LAB: BEGA
DATE: 05/07/2019
LUMINAIRE: 84 663K27
LAMP: 16.8W LED

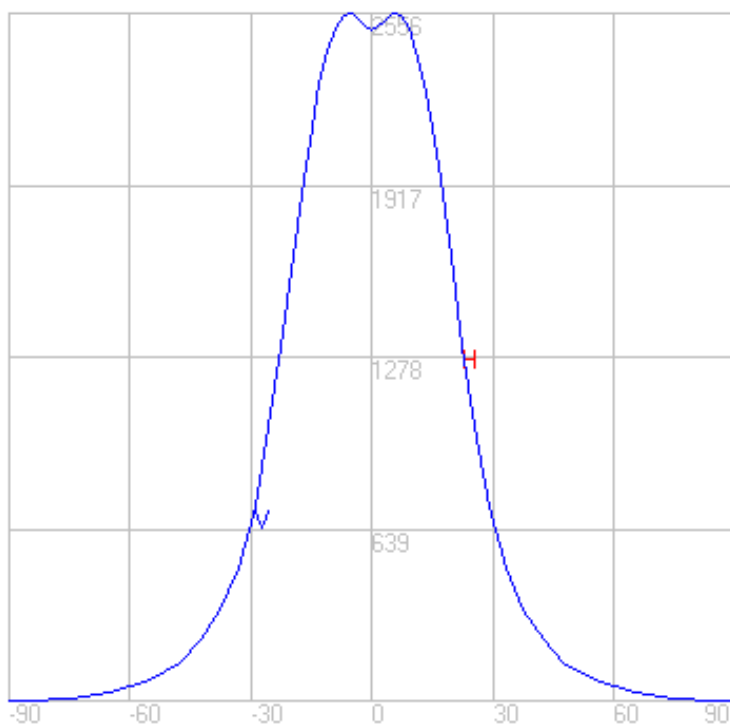
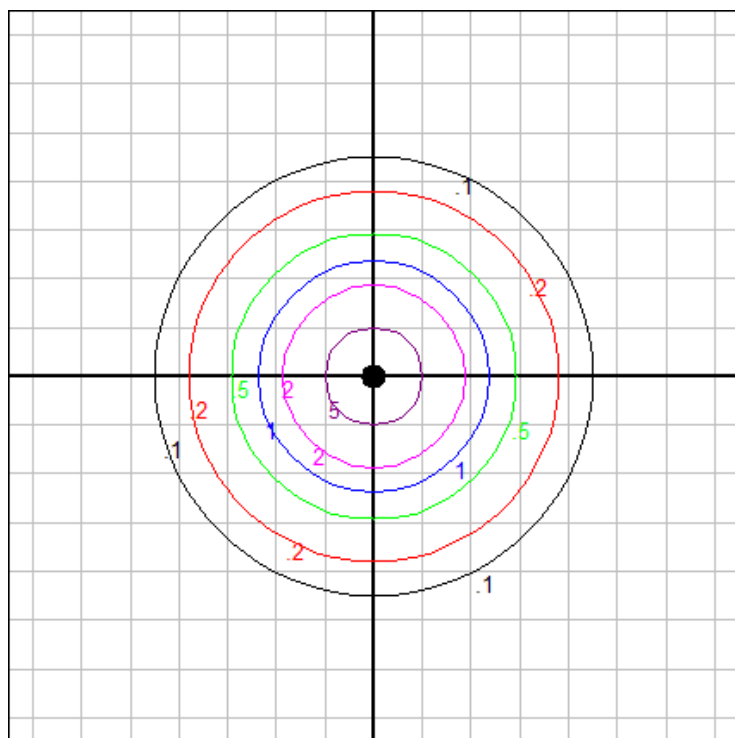


Characteristics

NEMA Type	5 H x 5 V
Maximum Candela	2556.258
Maximum Candela Angle	-5 H -1 V
Horizontal Beam Angle (50%)	44.8
Vertical Beam Angle (50%)	45.8
Horizontal Field Angle (10%)	82.0
Vertical Field Angle (10%)	82.4
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	992
Beam Efficiency	N.A.
Field Lumens	1609
Field Efficiency	N.A.
Spill Lumens	232
Luminaire Lumens	1841
Total Efficiency	N.A.
Total Luminaire Watts	20
Ballast Factor	1.00

Zonal Lumen Summary

Zone	Lumens
0-10	241.43
10-20	582.48
20-30	490.43
30-40	267.08
40-50	143.49
50-60	71.26
60-70	28.29
70-80	9.44
80-90	1.99
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 20 ft.

Grid Spacing: 5 ft.

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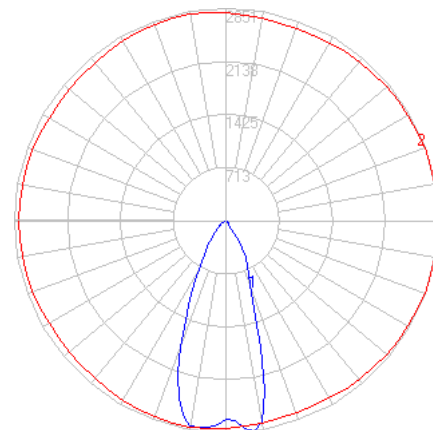
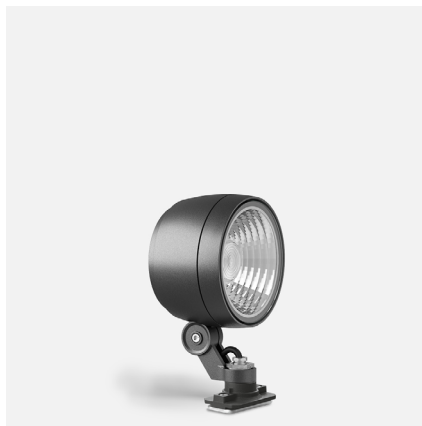
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BEGA

File: 84663K4_71118_BEGA_IES.ies

TEST: BE_84663K4_71118
TEST LAB: BEGA
DATE: 05/07/2019
LUMINAIRE: 84 663K4 + 71118
LAMP: 16.8W LED

*For additional CCTs, please consult factory

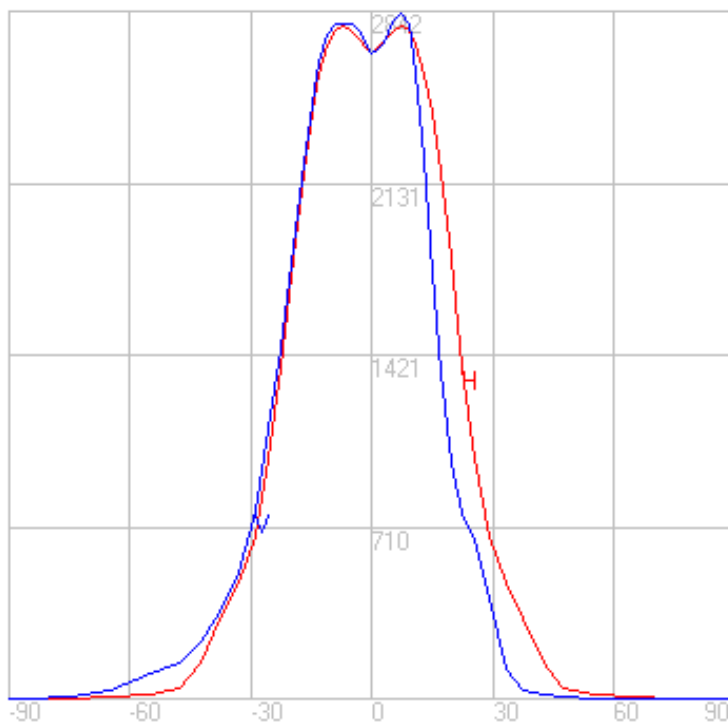
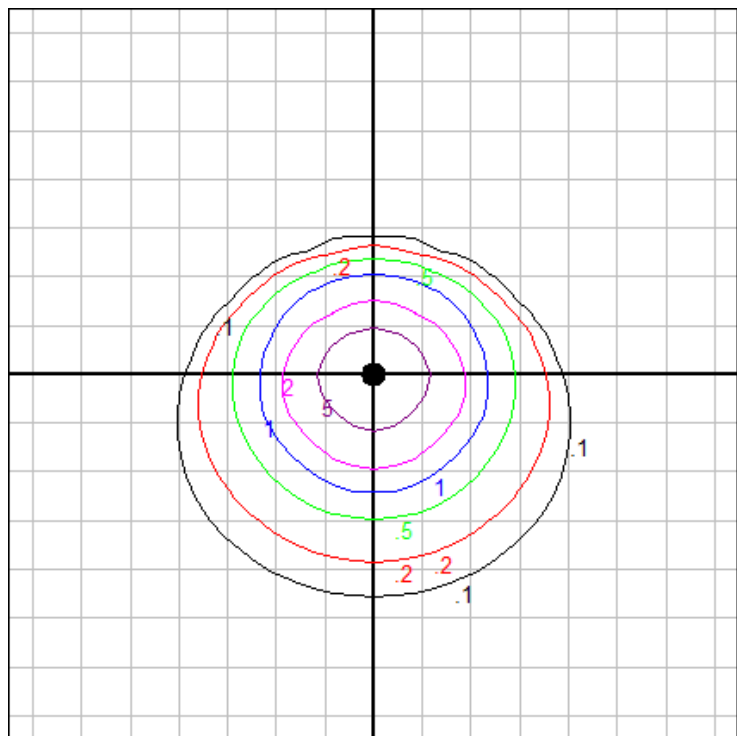


Characteristics

NEMA Type	5 H x 5 V
Maximum Candela	2841.8
Maximum Candela Angle	-1 H 7 V
Horizontal Beam Angle (50%)	39.0
Vertical Beam Angle (50%)	39.4
Horizontal Field Angle (10%)	74.3
Vertical Field Angle (10%)	71.4
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	923
Beam Efficiency	N.A.
Field Lumens	1484
Field Efficiency	N.A.
Spill Lumens	159
Luminaire Lumens	1643
Total Efficiency	N.A.
Total Luminaire Watts	20
Ballast Factor	1.00

Zonal Lumen Summary

Zone	Lumens
0-10	263.44
10-20	597.82
20-30	442.01
30-40	208.65
40-50	80.09
50-60	30.99
60-70	11.80
70-80	3.79
80-90	0.81
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 20 ft.

Grid Spacing: 5 ft.

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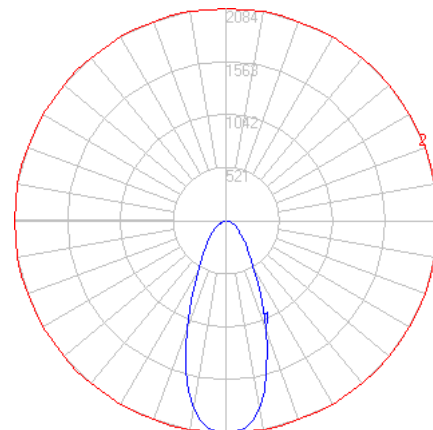
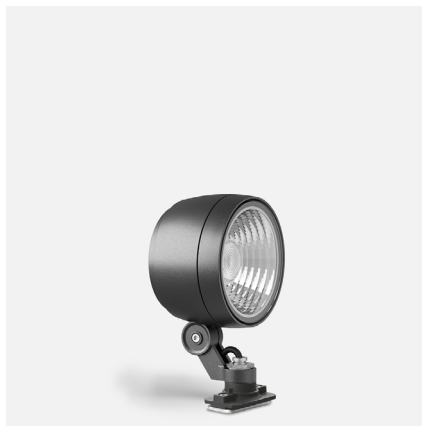
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BEGA

File: 84663K4_71120_BEGA_IES.ies

TEST: BE_84663K4_71120
TEST LAB: BEGA
DATE: 05/07/2019
LUMINAIRE: 84 663K4 + 71120
LAMP: 16.8W LED

*For additional CCTs, please consult factory

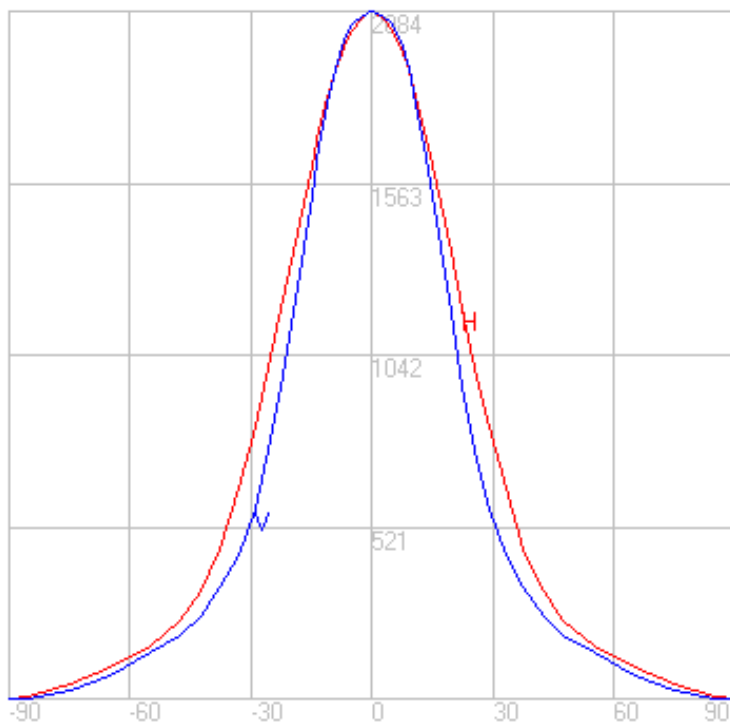
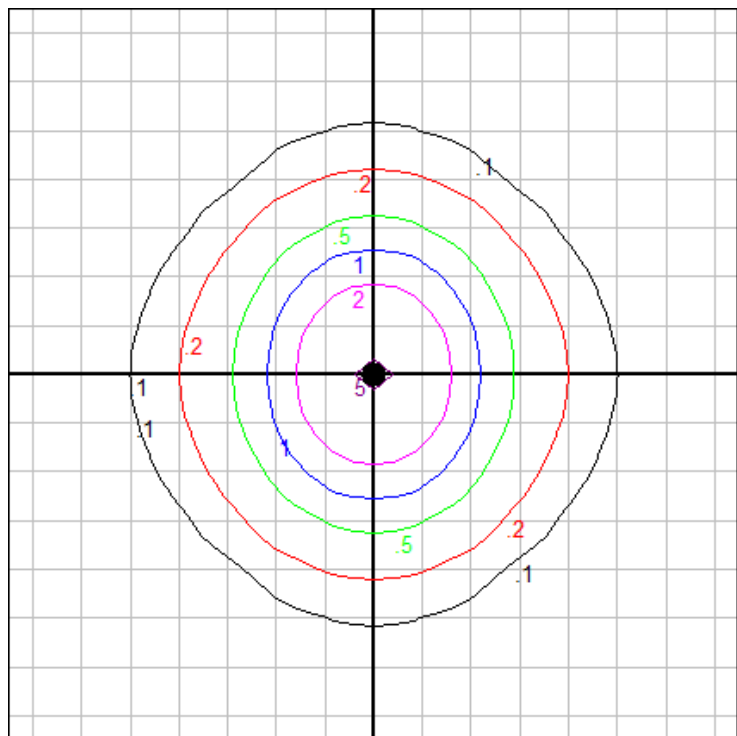


Characteristics

NEMA Type	6 H x 5 V
Maximum Candela	2083.8
Maximum Candela Angle	0 H 0 V
Horizontal Beam Angle (50%)	49.8
Vertical Beam Angle (50%)	42.4
Horizontal Field Angle (10%)	100.3
Vertical Field Angle (10%)	92.7
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	777
Beam Efficiency	N.A.
Field Lumens	1489
Field Efficiency	N.A.
Spill Lumens	260
Luminaire Lumens	1749
Total Efficiency	N.A.
Total Luminaire Watts	20
Ballast Factor	1.00

Zonal Lumen Summary

Zone	Lumens
0-10	189.81
10-20	439.39
20-30	424.25
30-40	294.65
40-50	184.73
50-60	113.47
60-70	65.14
70-80	29.03
80-90	4.50
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Mounting Height: 20 ft.

Grid Spacing: 5 ft.

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