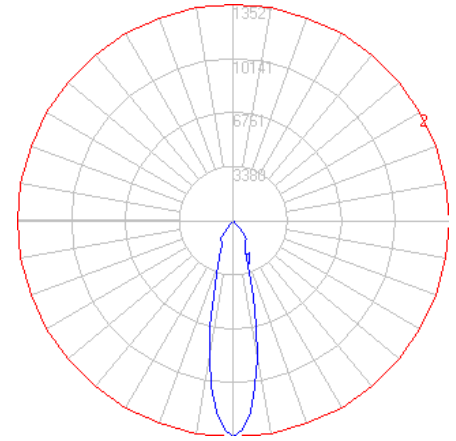


BEGA

Photometric Filename: 77659.ies

TEST: BE_77659
TEST LAB: BEGA
DATE: 6/18/2014
LUMINAIRE: 77 659
LAMP: 48.2W LED

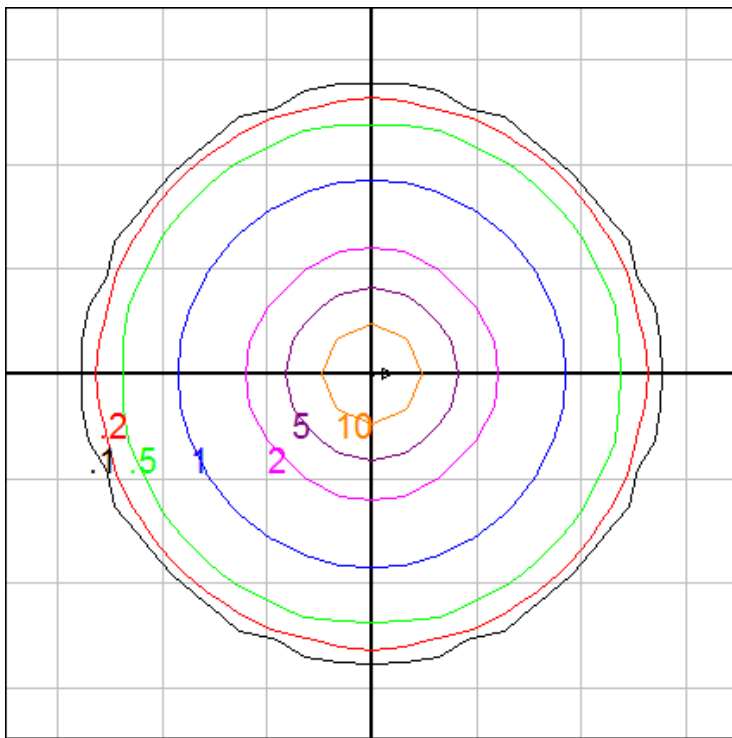


Characteristics

NEMA Type	4 H x 4 V
Maximum Candela	13521.3
Maximum Candela Angle	0 H 0 V
Horizontal Beam Angle (50%)	25.0
Vertical Beam Angle (50%)	25.0
Horizontal Field Angle (10%)	68.7
Vertical Field Angle (10%)	68.7
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1422
Beam Efficiency	N.A.
Field Lumens	3596
Field Efficiency	N.A.
Spill Lumens	559
Luminaire Lumens	4155
Total Efficiency	N.A.
Total Luminaire Watts	54

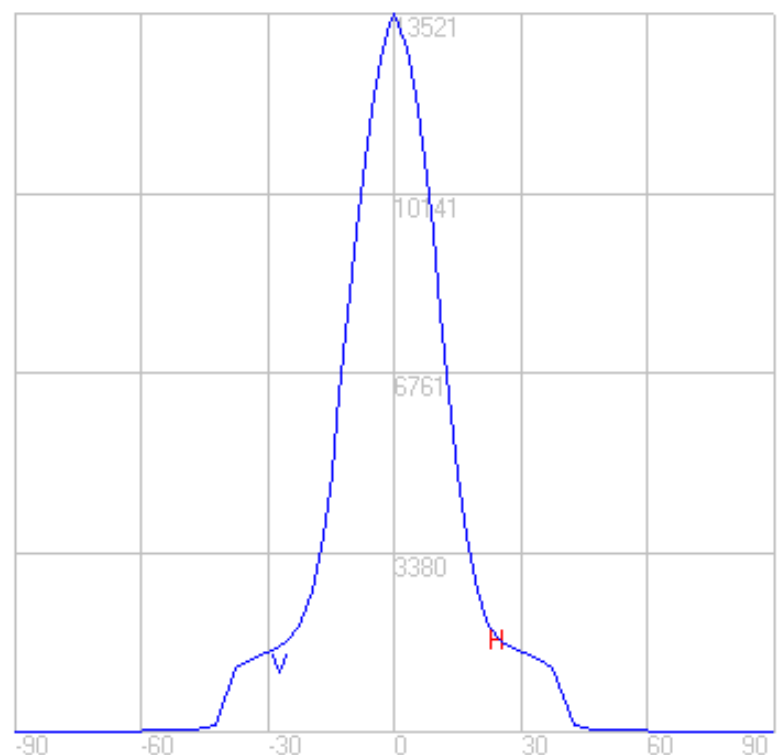
Zonal Lumen Summary

Zone	Lumens
0-10	1040.6
10-20	1368.43
20-30	828.69
30-40	784.70
40-50	98.41
50-60	26.90
60-70	8.41
70-80	0.28
80-90	0.04
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



Setback = 30 ft.

Grid Spacing = 10 ft.



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

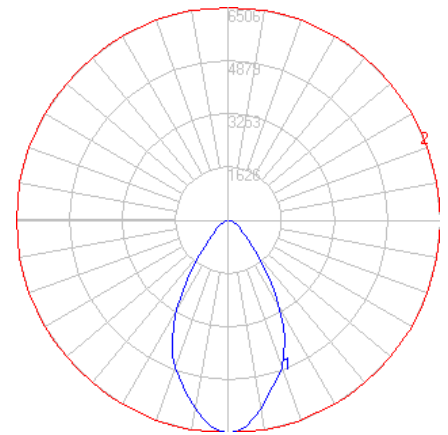
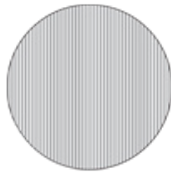
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Photometric Filename: 77659_70065.ies

TEST: BE_77659_70065
 TEST LAB: BEGA
 DATE: 6/18/2014
 LUMINAIRE: 77 659 + 70 065
 LAMP: 48.2W LED

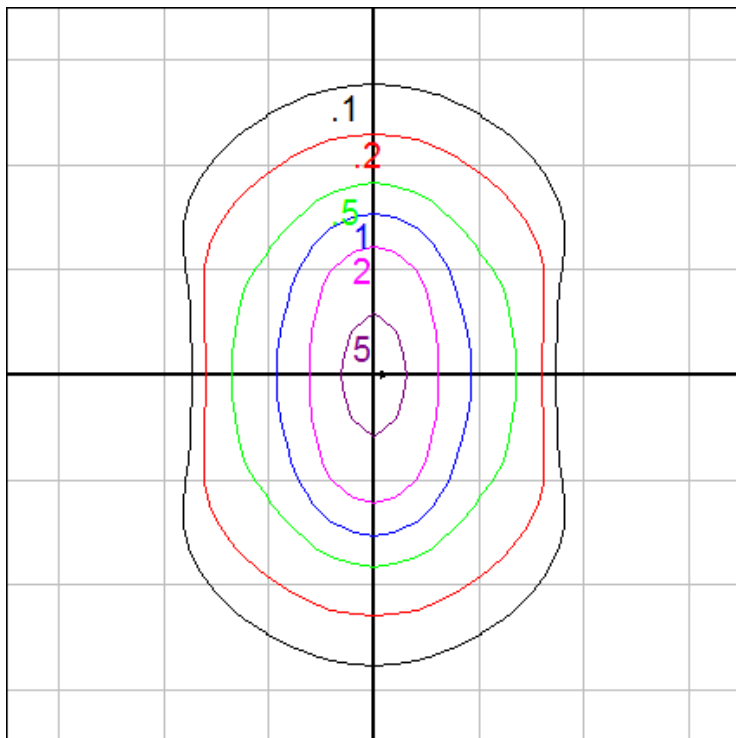


Characteristics

NEMA Type	5 H x 5 V
Maximum Candela	6505.8
Maximum Candela Angle	0 H 0 V
Horizontal Beam Angle (50%)	59.0
Vertical Beam Angle (50%)	25.7
Horizontal Field Angle (10%)	97.9
Vertical Field Angle (10%)	71.8
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1734
Beam Efficiency	N.A.
Field Lumens	3570
Field Efficiency	N.A.
Spill Lumens	498
Luminaire Lumens	4068
Total Efficiency	N.A.
Total Luminaire Watts	54

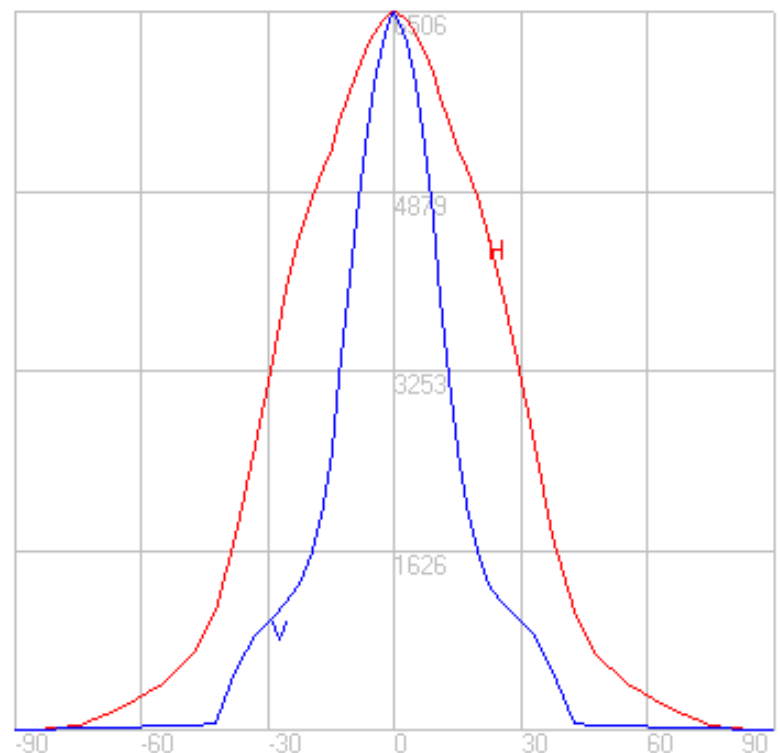
Zonal Lumen Summary

Zone	Lumens
0-10	547.50
10-20	1056.12
20-30	1006.83
30-40	764.05
40-50	383.17
50-60	192.46
60-70	88.07
70-80	23.59
80-90	3.00
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



Setback = 30 ft.

Grid Spacing = 15 ft.



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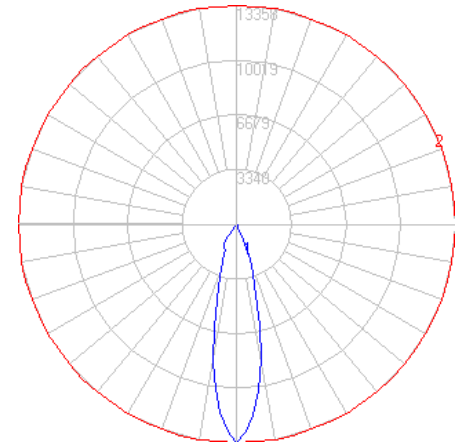
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Photometric Filename: 77659_70758.ies

TEST: BE_77659_70758
 TEST LAB: BEGA
 DATE: 6/18/2014
 LUMINAIRE: 77 659 + 70 758
 LAMP: 48.2W LED

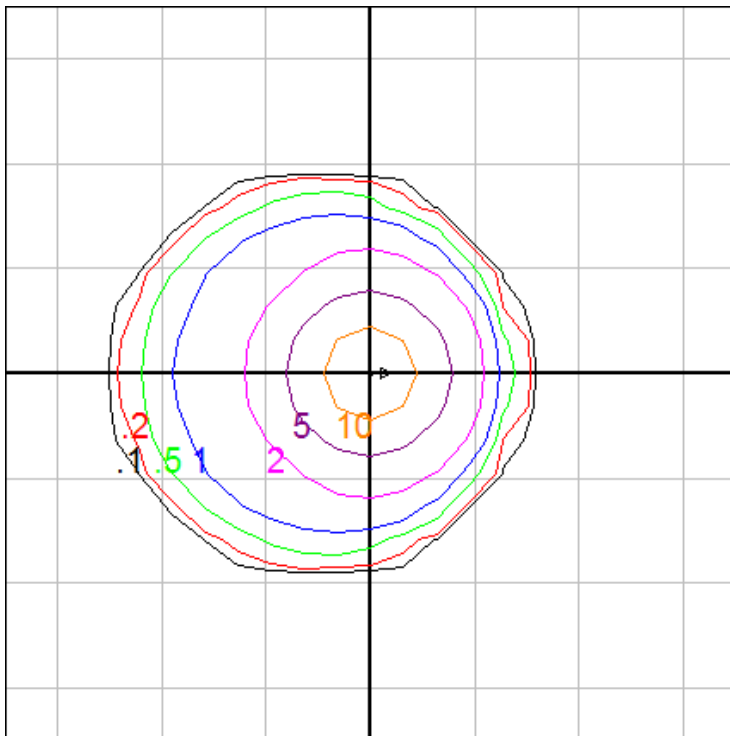


Characteristics

NEMA Type	4 H x 4 V
Maximum Candela	13358.4
Maximum Candela Angle	0 H 0 V
Horizontal Beam Angle (50%)	24.1
Vertical Beam Angle (50%)	24.4
Horizontal Field Angle (10%)	52.5
Vertical Field Angle (10%)	55.3
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1313
Beam Efficiency	N.A.
Field Lumens	2828
Field Efficiency	N.A.
Spill Lumens	306
Luminaire Lumens	3134
Total Efficiency	N.A.
Total Luminaire Watts	54

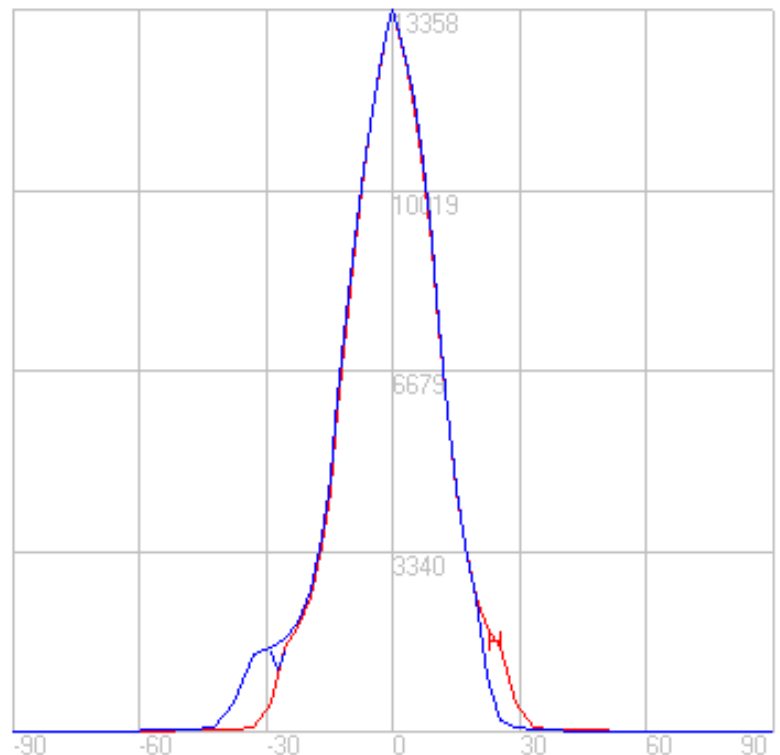
Zonal Lumen Summary

Zone	Lumens
0-10	1005.33
10-20	1291.61
20-30	599.80
30-40	189.10
40-50	26.23
50-60	17.84
60-70	6.03
70-80	1.39
80-90	0.33
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



Setback = 30 ft.

Grid Spacing = 10 ft.



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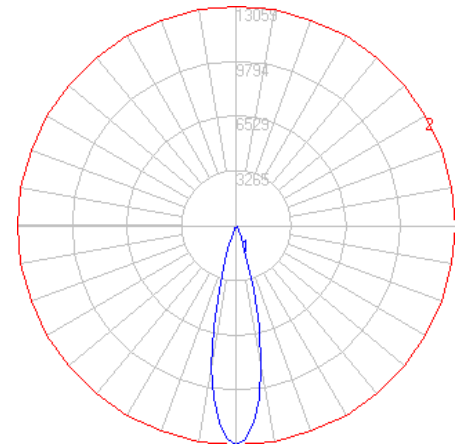
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Photometric Filename: 77659_70775.ies

TEST: BE_77659_70775
 TEST LAB: BEGA
 DATE: 6/18/2014
 LUMINAIRE: 77 659 + 70 775
 LAMP: 48.2W LED

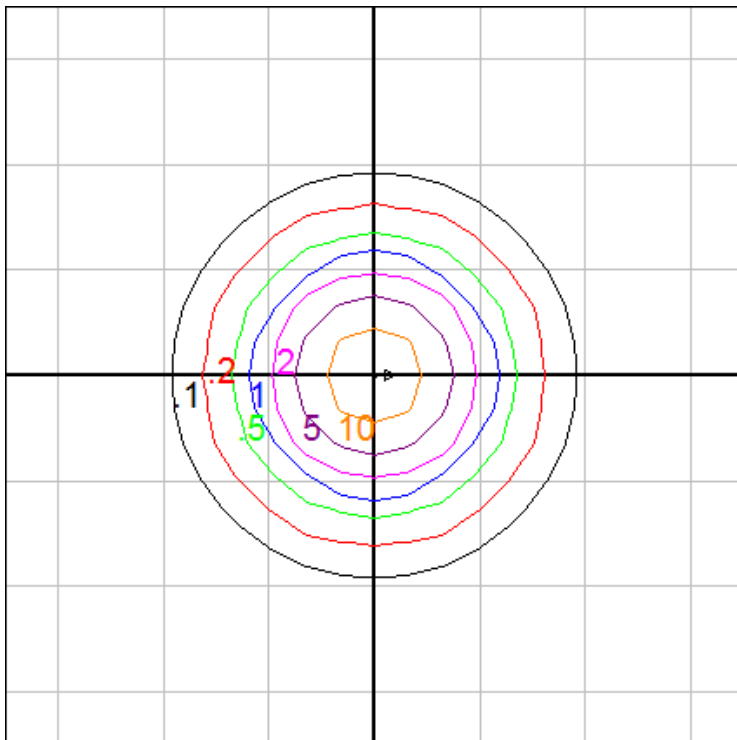


Characteristics

NEMA Type	3 H x 3 V
Maximum Candela	13058.5
Maximum Candela Angle	0 H 0 V
Horizontal Beam Angle (50%)	24.4
Vertical Beam Angle (50%)	24.4
Horizontal Field Angle (10%)	39.8
Vertical Field Angle (10%)	39.8
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1322
Beam Efficiency	N.A.
Field Lumens	2114
Field Efficiency	N.A.
Spill Lumens	354
Luminaire Lumens	2469
Total Efficiency	N.A.
Total Luminaire Watts	54

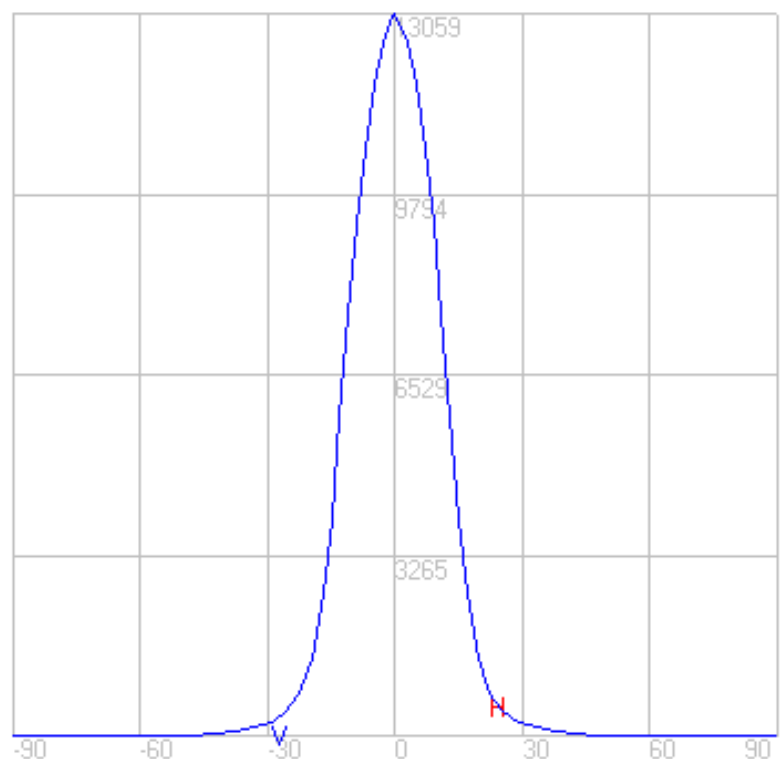
Zonal Lumen Summary

Zone	Lumens
0-10	1021.46
10-20	1111.68
20-30	244.35
30-40	71.95
40-50	20.98
50-60	3.65
60-70	1.19
70-80	0.20
80-90	0.00
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



Setback = 30 ft.

Grid Spacing = 10 ft.



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