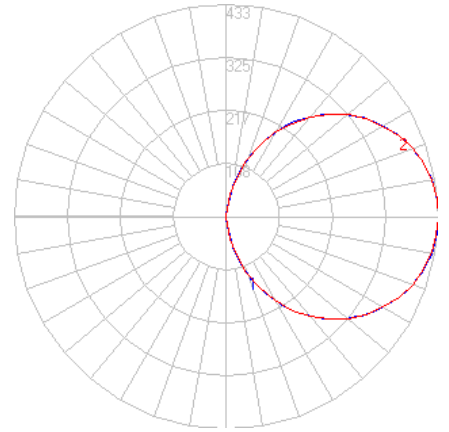
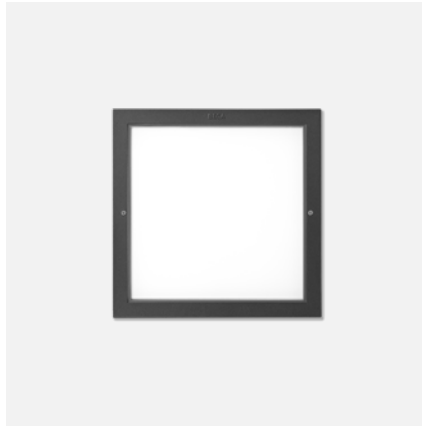


BEGA

File: 24216K4_BEGA_IES.ies

TEST: BE_24216K4
TEST LAB: BEGA
DATE: 2/1/2017
LUMINAIRE: 24 216K4
LAMP: 11.5W LED



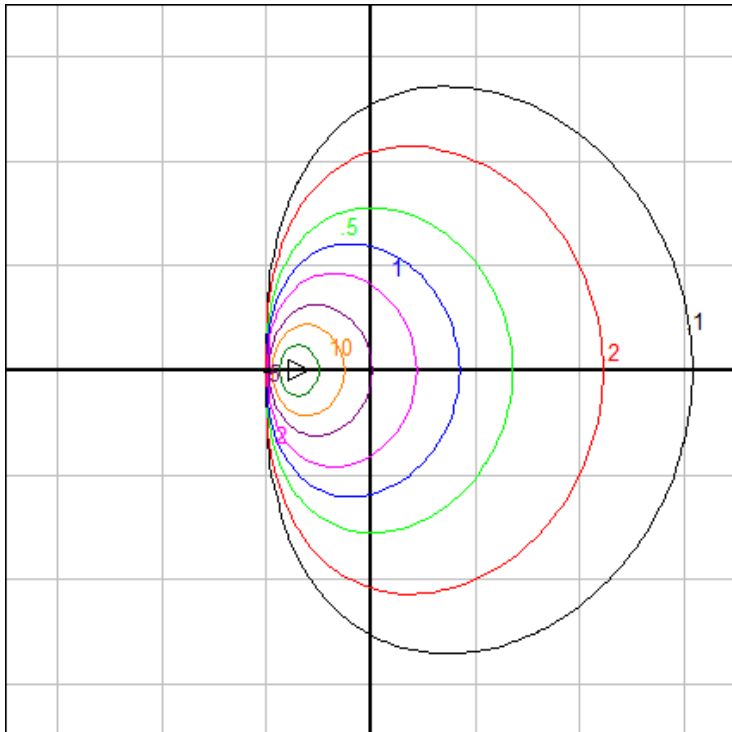
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1258
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	16
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	433.3 (360H, 90V)
Max. Cd. (<90 Vert.)	433.1 (360H, 88.5V)
Max. Cd. (At 90 Deg. Vert.)	433.3 (34.4%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	433.1 (34.4%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

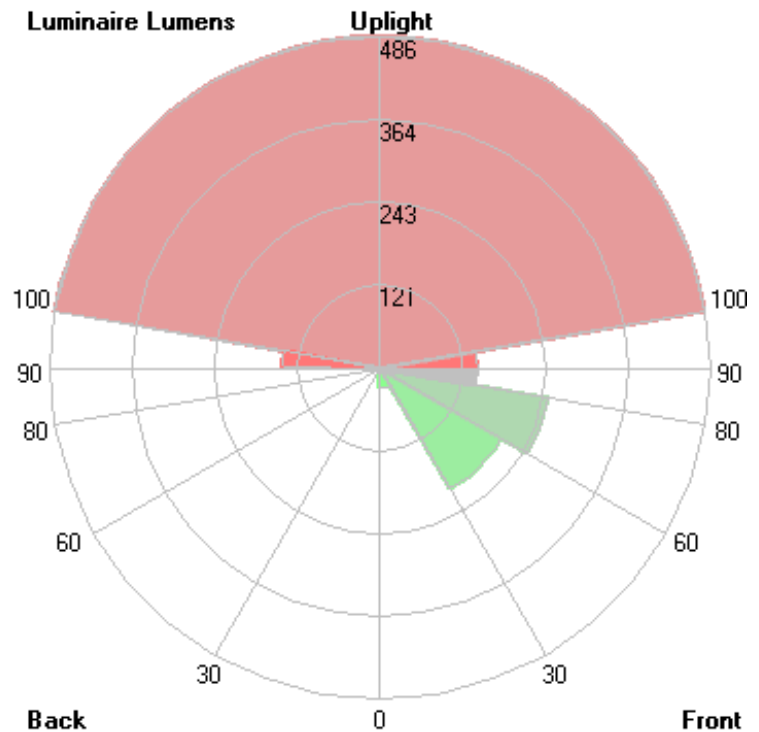
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	29.1	N.A.	2.3
FM (30-60)	205.8	N.A.	16.4
FH (60-80)	250.9	N.A.	19.9
FVH (80-90)	143.1	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	143.1	N.A.	11.4
UH (100-180)	485.9	N.A.	38.6
Total	1257.9	N.A.	100.0

BUG Rating **B0-U3-G2**



Mounting Height: 2 ft.

Grid Spacing: 5 ft.

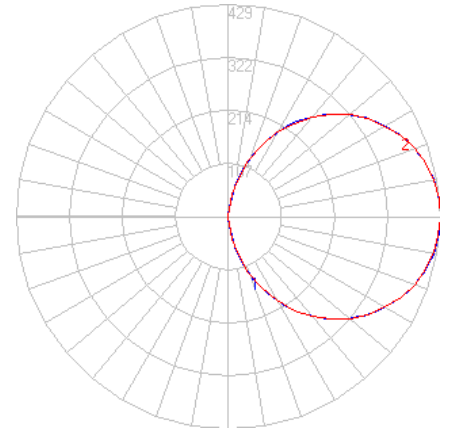
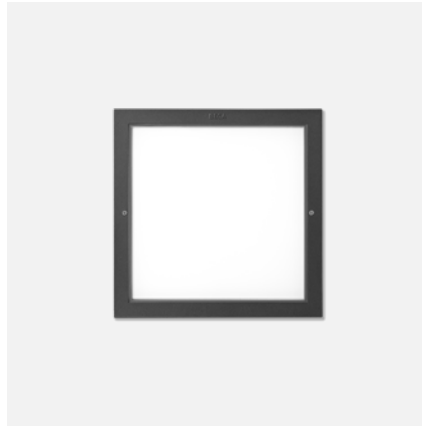


In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

BEGA

File: 24216K35_BEGA_IES.ies

TEST: BE_24216K4
TEST LAB: BEGA
DATE: 2/1/2017
LUMINAIRE: 24 216K35
LAMP: 11.5W LED



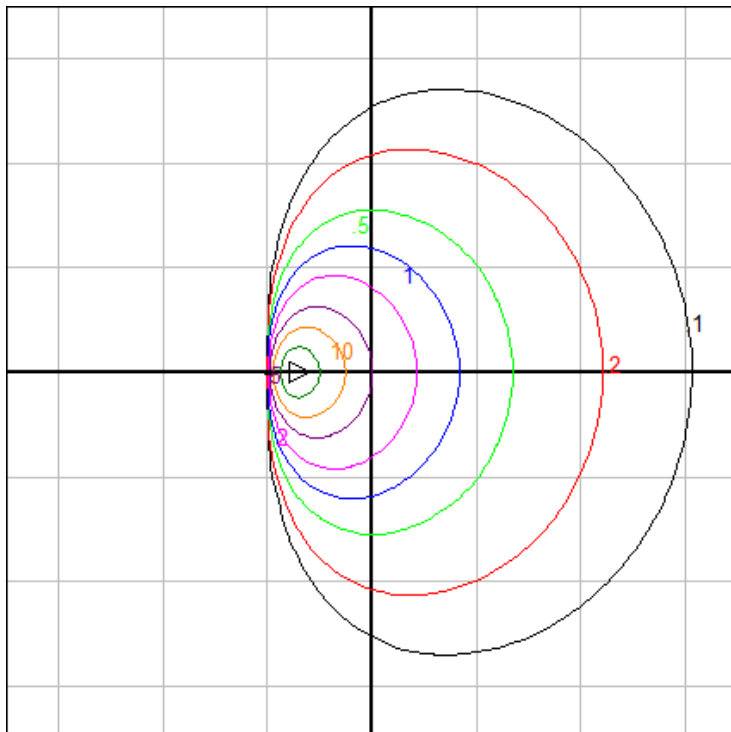
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1245
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	16
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	428.967 (360H, 90V)
Max. Cd. (<90 Vert.)	428.769 (360H, 88.5V)
Max. Cd. (At 90 Deg. Vert.)	428.967 (34.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	428.769 (34.4%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

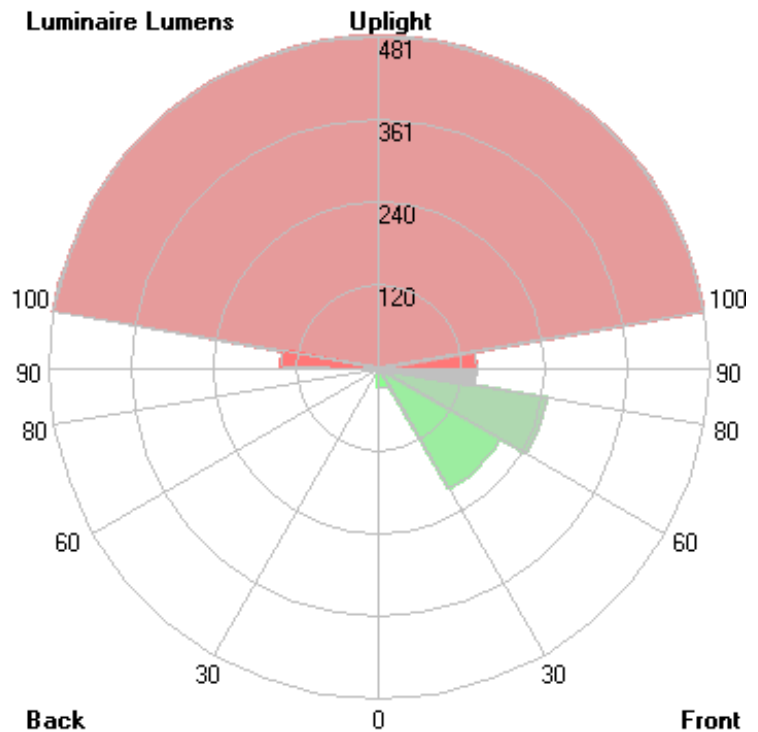
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	28.8	N.A.	2.3
FM (30-60)	203.7	N.A.	16.4
FH (60-80)	248.4	N.A.	20.0
FVH (80-90)	141.6	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	141.6	N.A.	11.4
UH (100-180)	481.0	N.A.	38.6
Total	1245.1	N.A.	100.0

BUG Rating B0-U3-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.

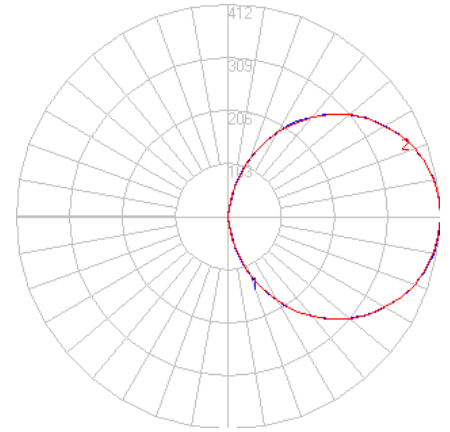
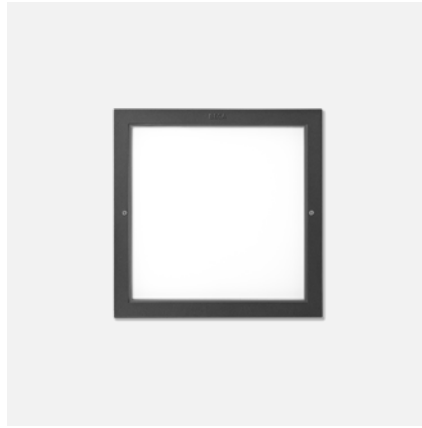
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BEGA

File: 24216K3_BEGA_IES.ies

TEST: BE_24216K4
TEST LAB: BEGA
DATE: 2/1/2017
LUMINAIRE: 24 216K3
LAMP: 11.5W LED



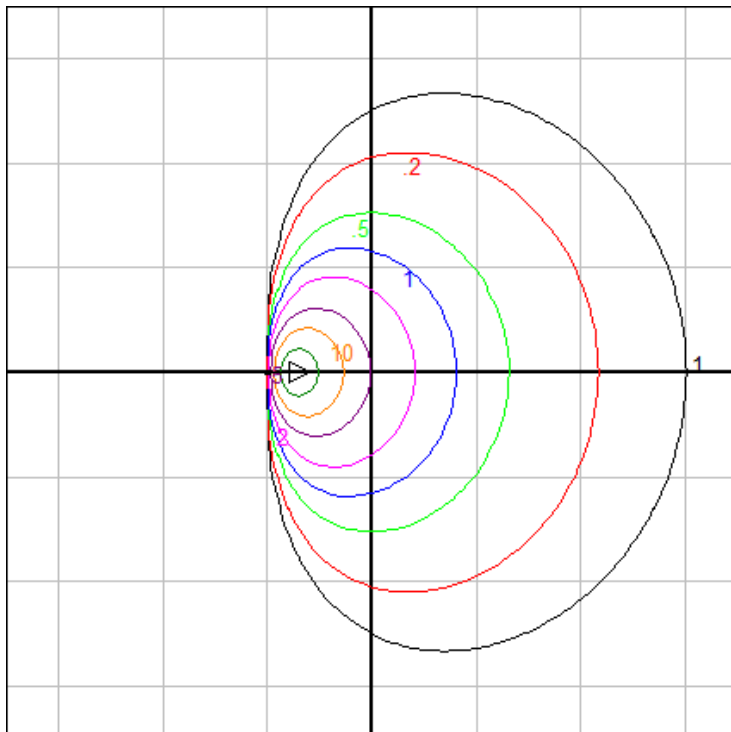
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1195
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	16
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	411.635 (360H, 90V)
Max. Cd. (<90 Vert.)	411.445 (360H, 88.5V)
Max. Cd. (At 90 Deg. Vert.)	411.635 (34.4%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	411.445 (34.4%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

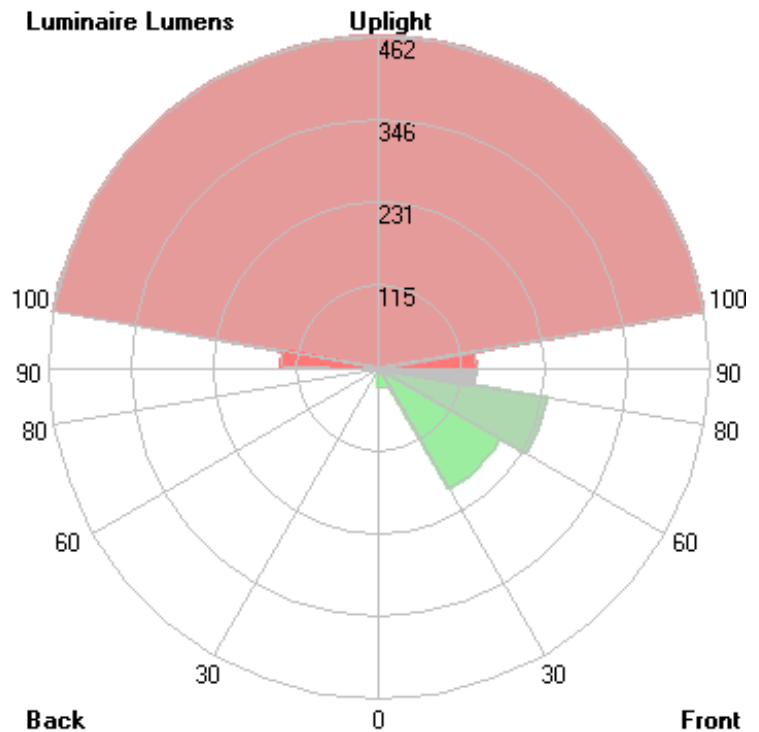
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	27.6	N.A.	2.3
FM (30-60)	195.5	N.A.	16.4
FH (60-80)	238.4	N.A.	20.0
FVH (80-90)	135.9	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	135.9	N.A.	11.4
UH (100-180)	461.6	N.A.	38.6
Total	1194.9	N.A.	100.0

BUG Rating B0-U3-G2



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



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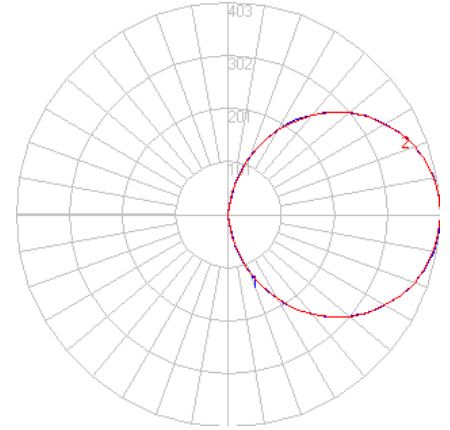
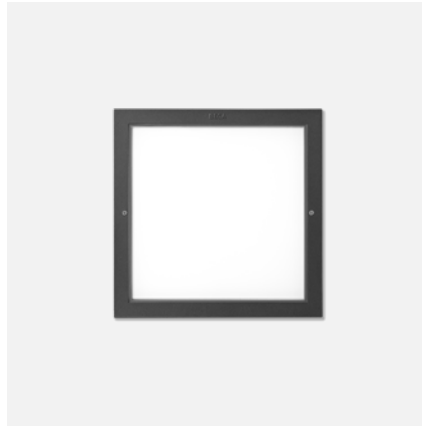
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BEGA

File: 24216K27_BEGA_IES.ies

TEST: BE_24216K4
TEST LAB: BEGA
DATE: 2/1/2017
LUMINAIRE: 24 216K27
LAMP: 11.5W LED



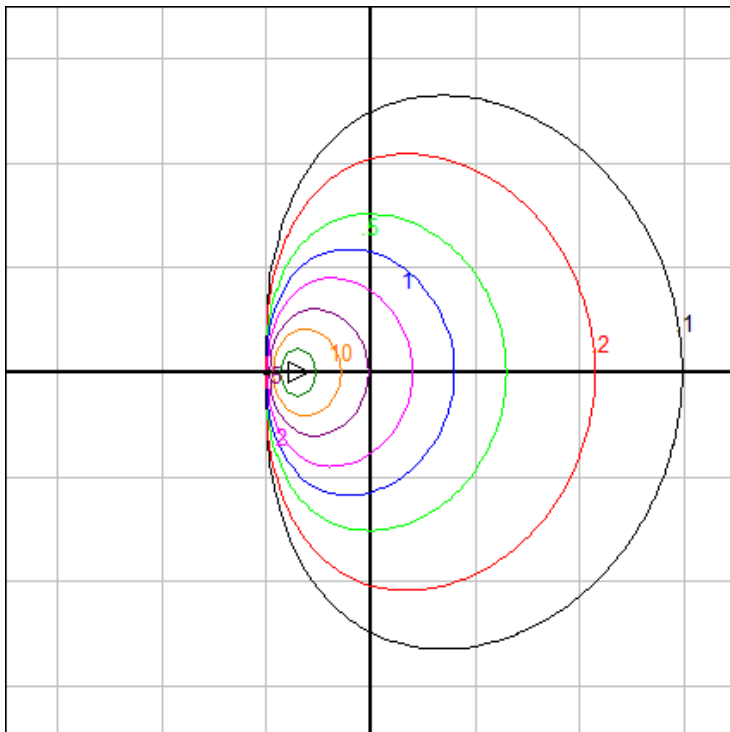
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1170
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	16
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	402.969 (360H, 90V)
Max. Cd. (<90 Vert.)	402.783 (360H, 88.5V)
Max. Cd. (At 90 Deg. Vert.)	402.969 (34.4%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	402.783 (34.4%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

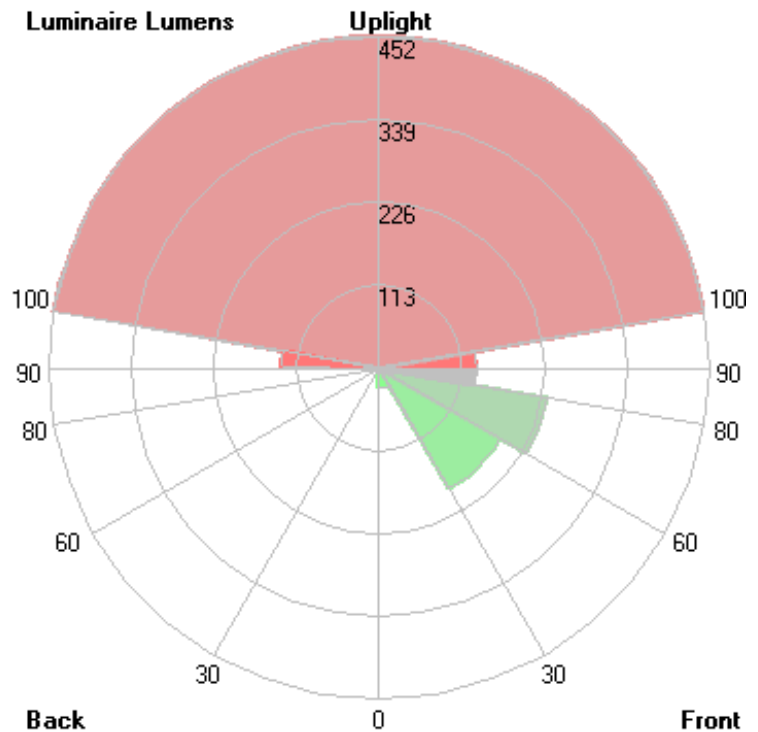
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	27.1	N.A.	2.3
FM (30-60)	191.4	N.A.	16.4
FH (60-80)	233.4	N.A.	19.9
FVH (80-90)	133.1	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	133.1	N.A.	11.4
UH (100-180)	451.8	N.A.	38.6
Total	1169.9	N.A.	100.0

BUG Rating B0-U3-G2



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



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