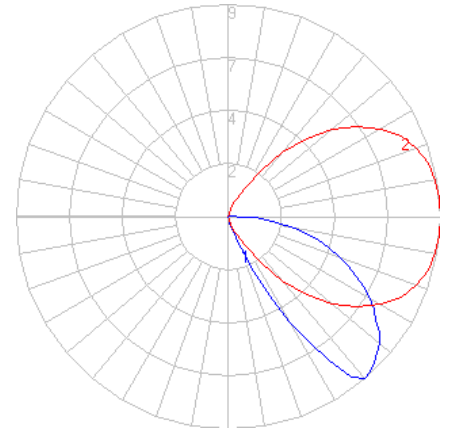
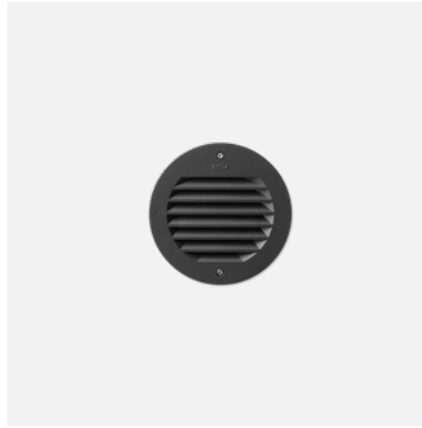


BEGA

File: 24101K4_BEGA_IES.ies

TEST: BE_24101K4
TEST LAB: BEGA
DATE: 3/21/2016
LUMINAIRE: 24 101K4
LAMP: 1.9W LED



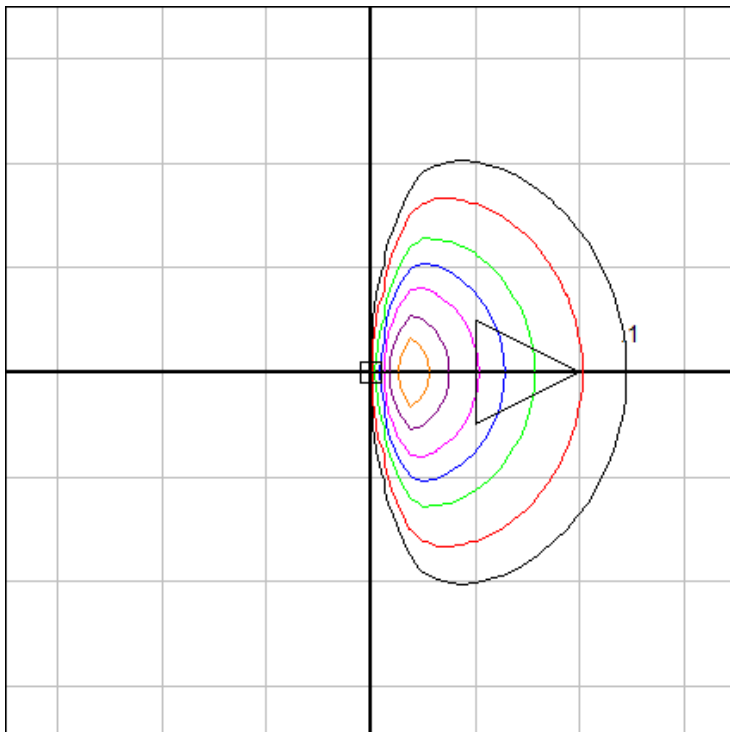
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	2
Total Luminaire Watts	6
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	8.8 (5H, 40V)
Max. Cd. (<90 Vert.)	8.8 (5H, 40V)
Max. Cd. (At 90 Deg. Vert.)	.5 (5.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	2.8 (28.0%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

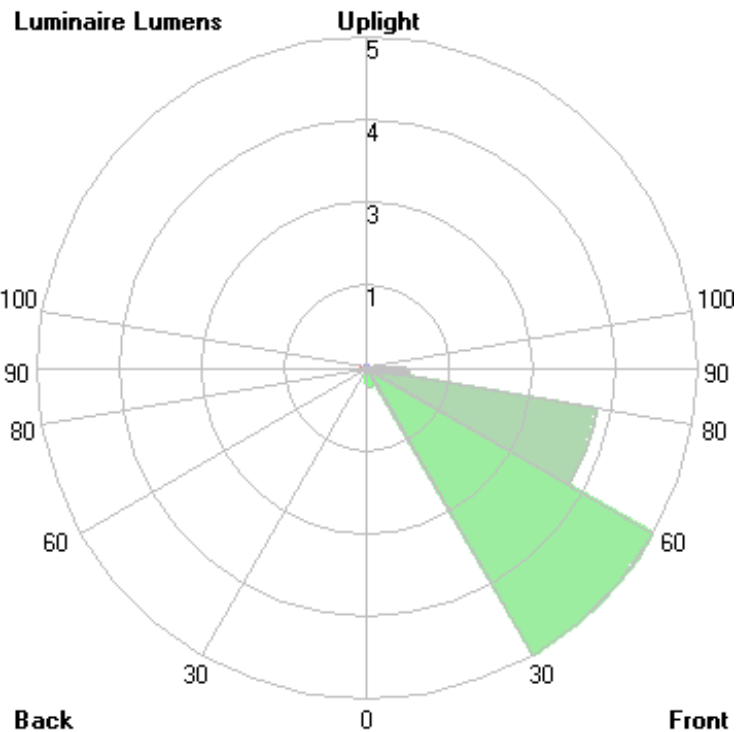
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	0.3	N.A.	3.0
FM (30-60)	5.2	N.A.	52.2
FH (60-80)	3.7	N.A.	36.8
FVH (80-90)	0.7	N.A.	6.7
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	N.A.	0.0
BH (60-80)	0.0	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	0.1	N.A.	0.7
UH (100-180)	< 0.05	N.A.	0.4
Total	10.0	N.A.	100.0

BUG Rating B0-U1-G0



Mounting Height: 0.5 ft.

Grid Spacing: 1 ft.



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

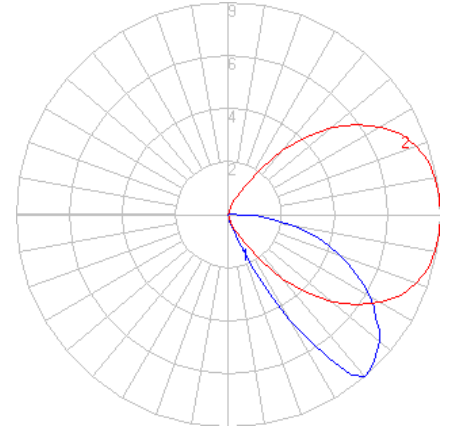
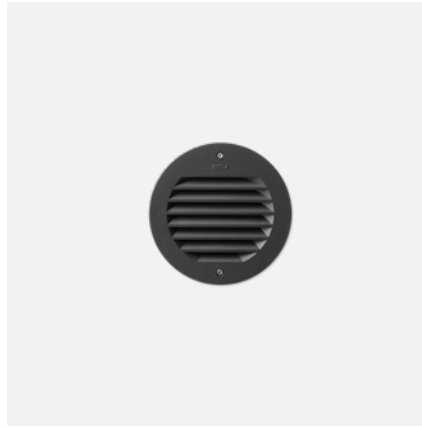
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BEGA

File: 24101K35_BEGA_IES.ies

TEST: BE_24101K4
TEST LAB: BEGA
DATE: 3/21/2016
LUMINAIRE: 24 101K35
LAMP: 1.9W LED



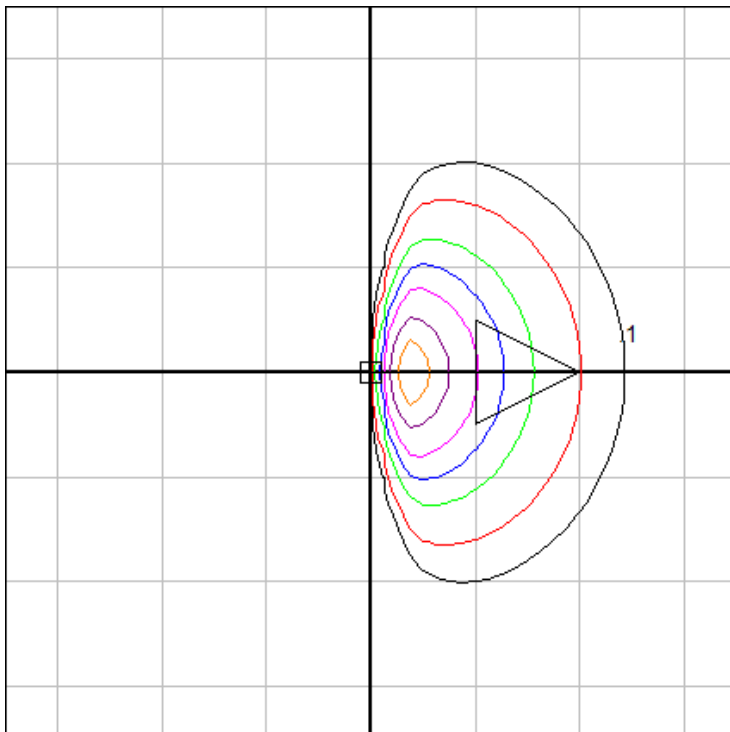
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	2
Total Luminaire Watts	6
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	8.624 (5H, 40V)
Max. Cd. (<90 Vert.)	8.624 (5H, 40V)
Max. Cd. (At 90 Deg. Vert.)	.49 (4.9%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	2.744 (27.4%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

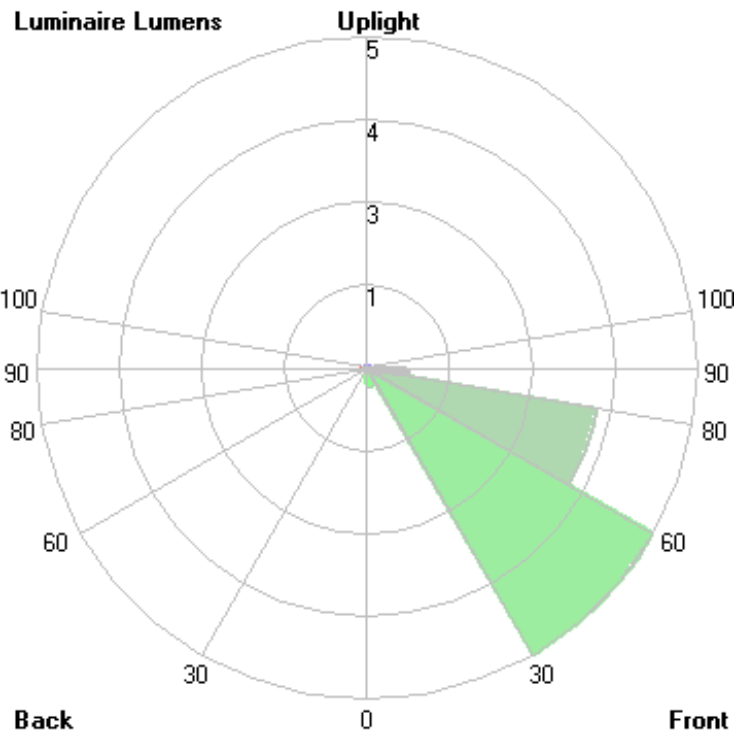
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	0.3	N.A.	3.0
FM (30-60)	5.1	N.A.	52.2
FH (60-80)	3.6	N.A.	36.8
FVH (80-90)	0.7	N.A.	6.7
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	N.A.	0.0
BH (60-80)	0.0	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	0.1	N.A.	0.7
UH (100-180)	< 0.05	N.A.	0.4
Total	9.8	N.A.	100.0

BUG Rating B0-U1-G0



Mounting Height: 0.5 ft.

Grid Spacing: 1 ft.



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

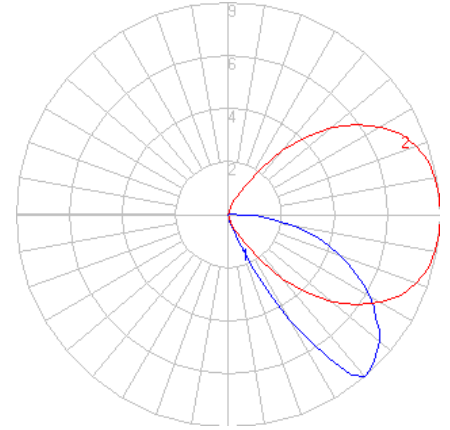
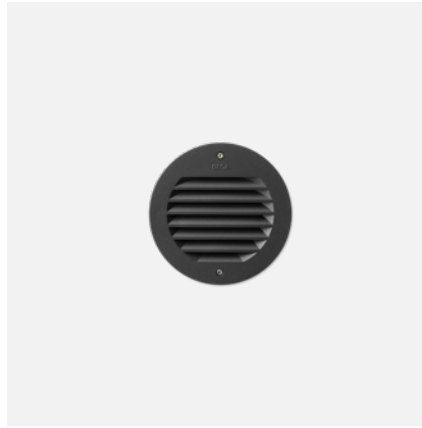
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BEGA

File: 24101K3_BEGA_IES.ies

TEST: BE_24101K4
TEST LAB: BEGA
DATE: 3/21/2016
LUMINAIRE: 24 101K3
LAMP: 1.9W LED



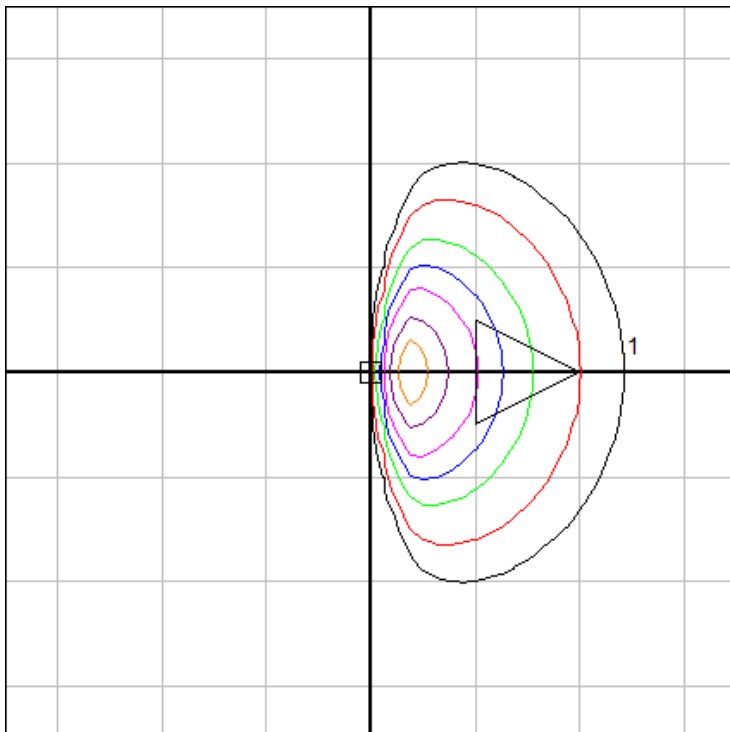
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	2
Total Luminaire Watts	6
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	8.536 (5H, 40V)
Max. Cd. (<90 Vert.)	8.536 (5H, 40V)
Max. Cd. (At 90 Deg. Vert.)	.485 (4.9%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	2.716 (27.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

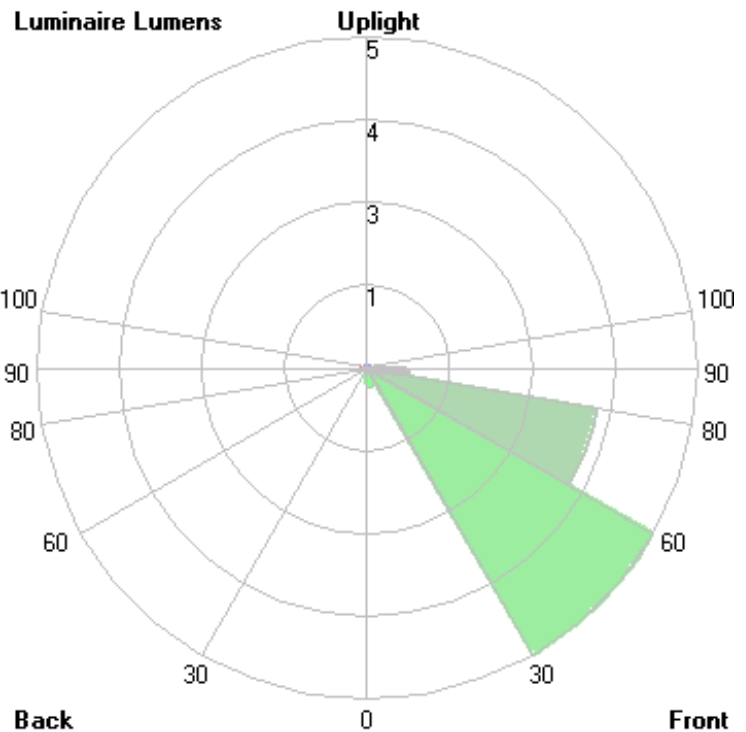
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	0.3	N.A.	3.0
FM (30-60)	5.1	N.A.	52.2
FH (60-80)	3.6	N.A.	36.8
FVH (80-90)	0.6	N.A.	6.7
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	N.A.	0.0
BH (60-80)	0.0	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	0.1	N.A.	0.7
UH (100-180)	< 0.05	N.A.	0.4
Total	9.7	N.A.	100.0

BUG Rating B0-U1-G0



Mounting Height: 0.5 ft.

Grid Spacing: 1 ft.



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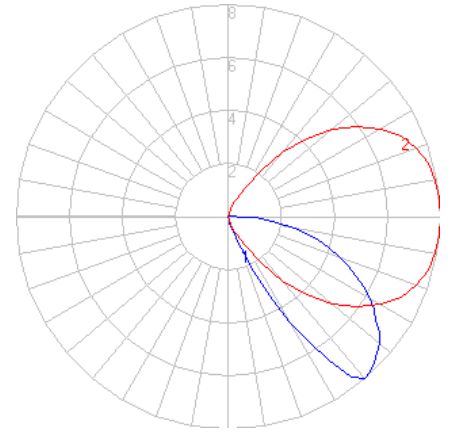
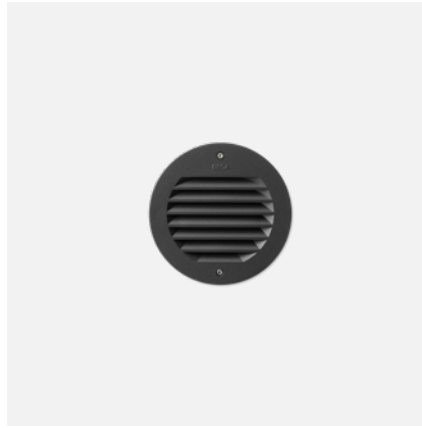
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BEGA

File: 24101K27_BEGA_IES.ies

TEST: BE_24101K4
TEST LAB: BEGA
DATE: 3/21/2016
LUMINAIRE: 24 101K27
LAMP: 1.9W LED



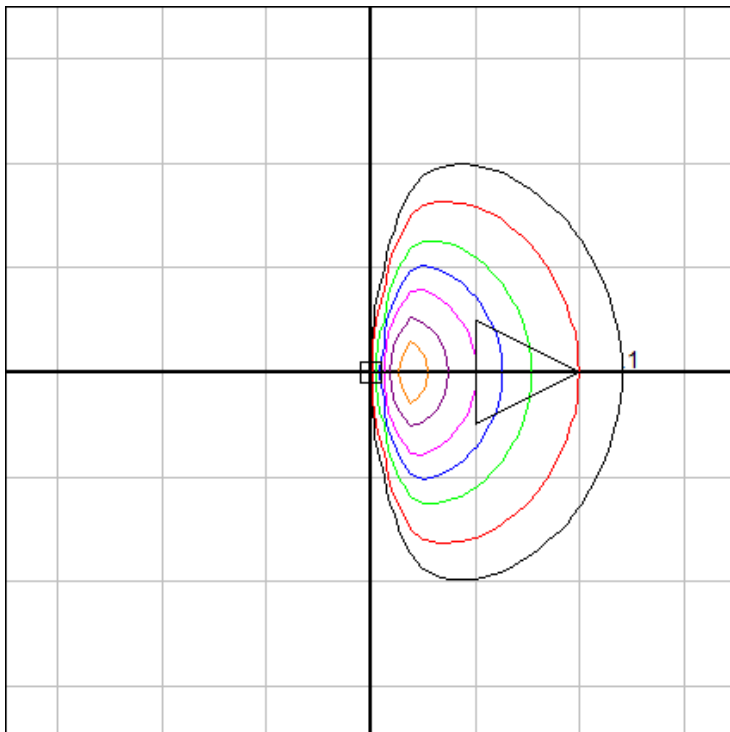
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	2
Total Luminaire Watts	6
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	8.272 (5H, 40V)
Max. Cd. (<90 Vert.)	8.272 (5H, 40V)
Max. Cd. (At 90 Deg. Vert.)	.47 (5.2%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	2.632 (29.2%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

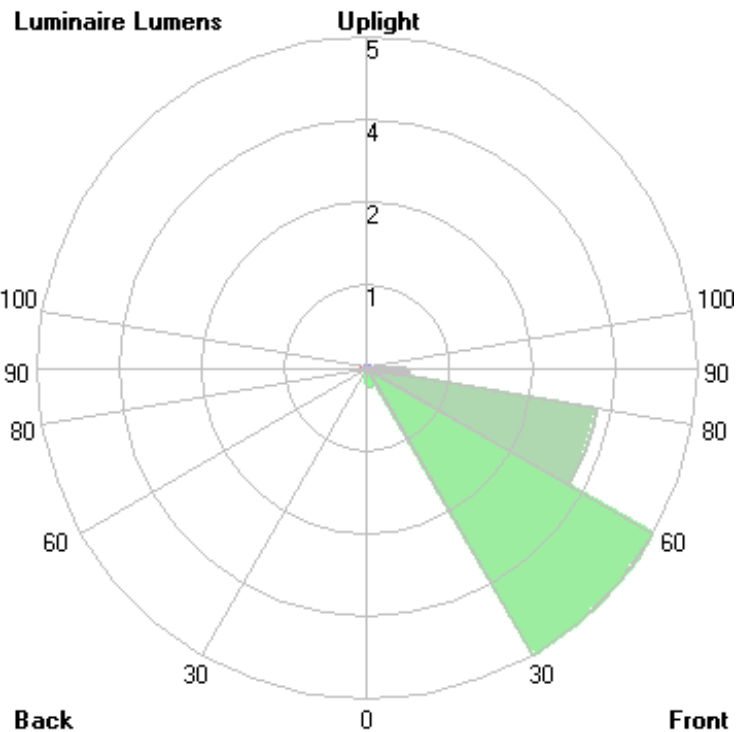
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	0.3	N.A.	3.0
FM (30-60)	4.9	N.A.	52.2
FH (60-80)	3.5	N.A.	36.8
FVH (80-90)	0.6	N.A.	6.7
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	N.A.	0.0
BH (60-80)	0.0	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	0.1	N.A.	0.7
UH (100-180)	< 0.05	N.A.	0.4
Total	9.4	N.A.	100.0

BUG Rating B0-U1-G0



Mounting Height: 0.5 ft.

Grid Spacing: 1 ft.



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