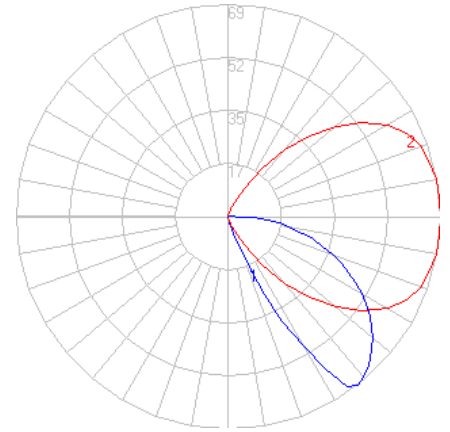
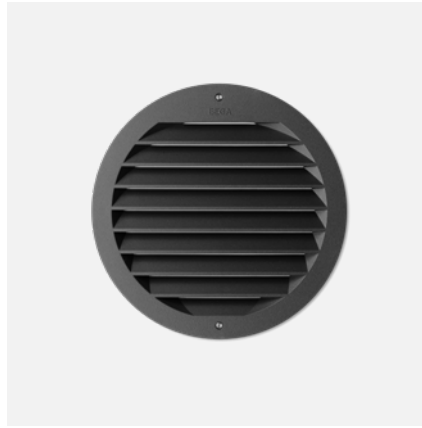


BEGA

File: 24103K4_BEGA_IES.ies

TEST: BE_24103K4
TEST LAB: BEGA
DATE: 4/18/2016
LUMINAIRE: 24 103K4
LAMP: 5.6W LED



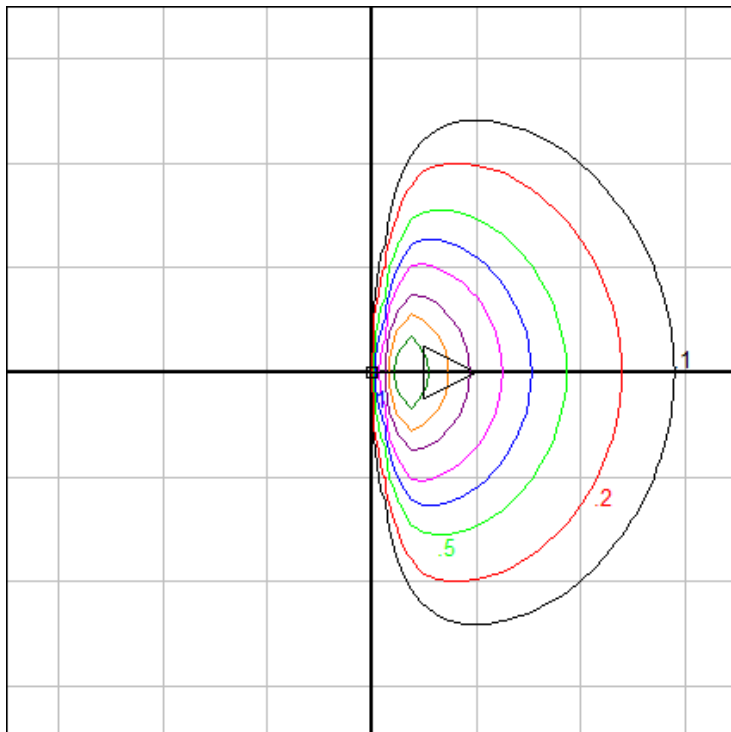
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	80
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	10
Total Luminaire Watts	8
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	69.1 (0H, 37.5V)
Max. Cd. (<90 Vert.)	69.1 (0H, 37.5V)
Max. Cd. (At 90 Deg. Vert.)	4.2 (5.3%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	20.7 (25.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

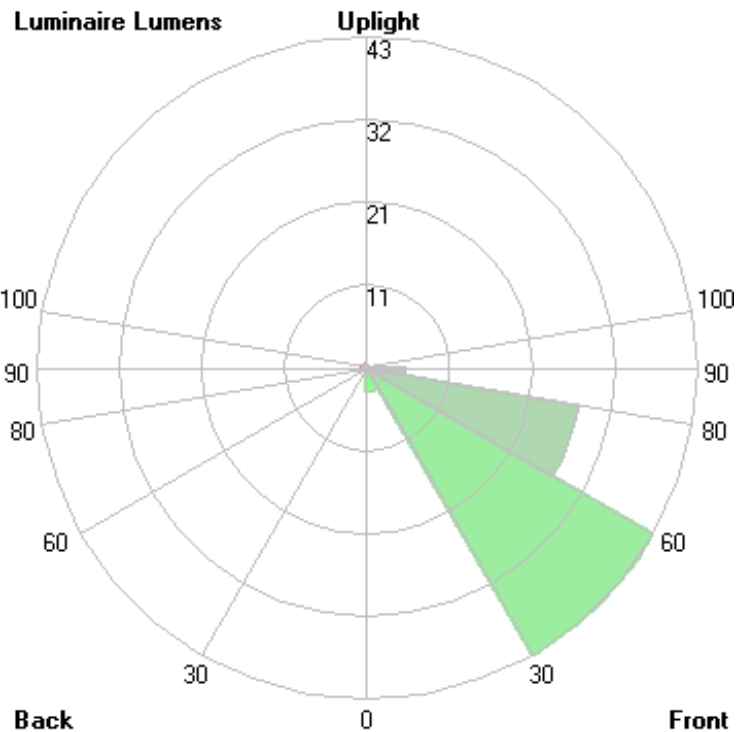
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	3.1	N.A.	3.9
FM (30-60)	43.0	N.A.	53.7
FH (60-80)	27.9	N.A.	34.8
FVH (80-90)	5.1	N.A.	6.4
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	0.5	N.A.	0.6
UH (100-180)	0.4	N.A.	0.5
Total	80.0	N.A.	100.0

BUG Rating B0-U1-G0



Mounting Height: 1 ft.

Grid Spacing: 2 ft.



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

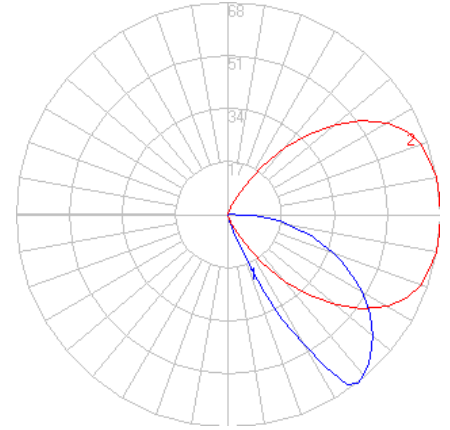
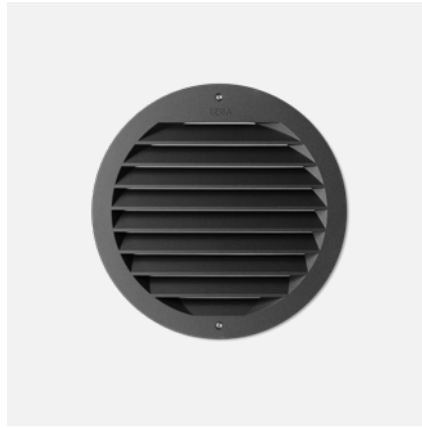
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BEGA

File: 24103K35_BEGA_IES.ies

TEST: BE_24103K4
TEST LAB: BEGA
DATE: 4/18/2016
LUMINAIRE: 24 103K35
LAMP: 5.6W LED



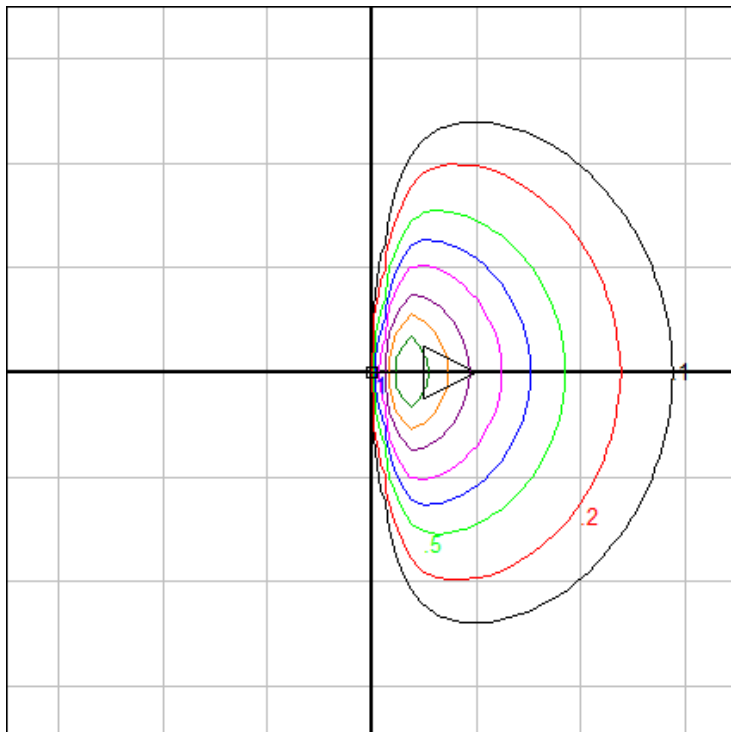
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	78
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	10
Total Luminaire Watts	8
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	67.718 (0H, 37.5V)
Max. Cd. (<90 Vert.)	67.718 (0H, 37.5V)
Max. Cd. (At 90 Deg. Vert.)	4.116 (5.3%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	20.286 (26.0%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

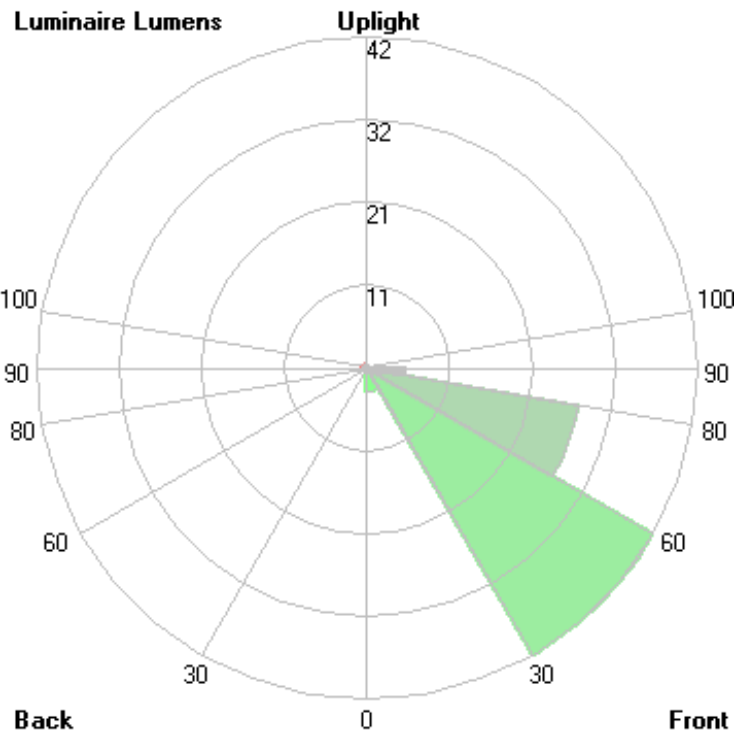
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	3.0	N.A.	3.9
FM (30-60)	42.1	N.A.	53.8
FH (60-80)	27.3	N.A.	34.9
FVH (80-90)	5.0	N.A.	6.4
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	0.5	N.A.	0.6
UH (100-180)	0.4	N.A.	0.5
Total	78.3	N.A.	100.0

BUG Rating B0-U1-G0



Mounting Height: 1 ft.

Grid Spacing: 2 ft.



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

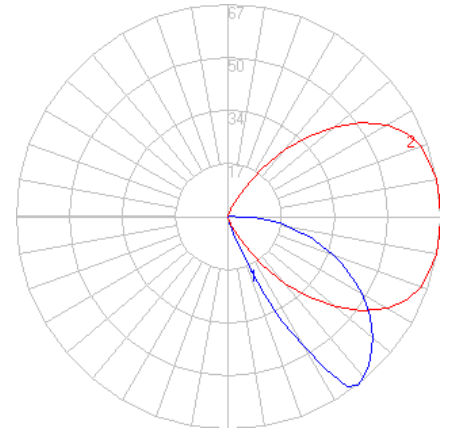
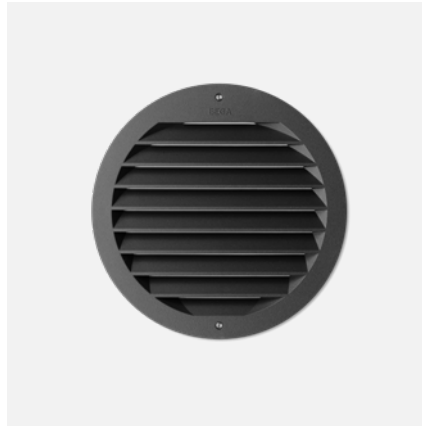
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BEGA

File: 24103K3_BEGA_IES.ies

TEST: BE_24103K4
TEST LAB: BEGA
DATE: 4/18/2016
LUMINAIRE: 24 103K3
LAMP: 5.6W LED



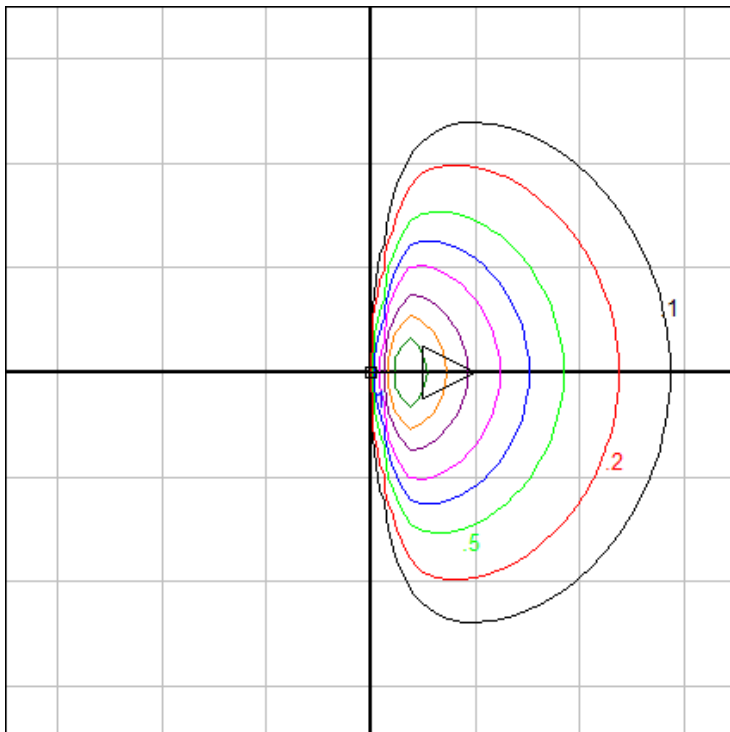
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	78
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	10
Total Luminaire Watts	8
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	67.027 (0H, 37.5V)
Max. Cd. (<90 Vert.)	67.027 (0H, 37.5V)
Max. Cd. (At 90 Deg. Vert.)	4.074 (5.2%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	20.079 (25.7%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

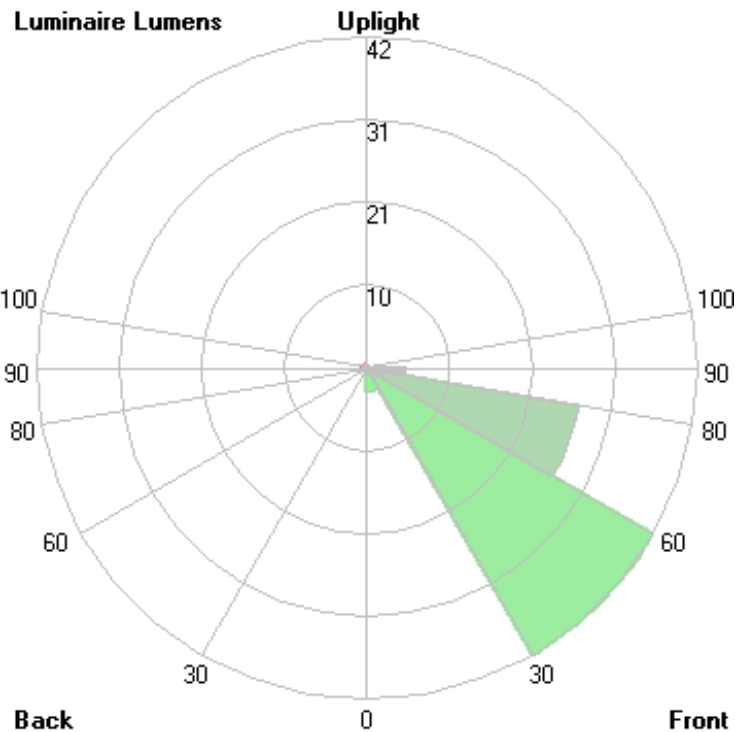
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	3.0	N.A.	3.9
FM (30-60)	41.7	N.A.	53.7
FH (60-80)	27.0	N.A.	34.8
FVH (80-90)	5.0	N.A.	6.4
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	0.5	N.A.	0.6
UH (100-180)	0.4	N.A.	0.5
Total	77.6	N.A.	100.0

BUG Rating B0-U1-G0



Mounting Height: 1 ft.

Grid Spacing: 2 ft.



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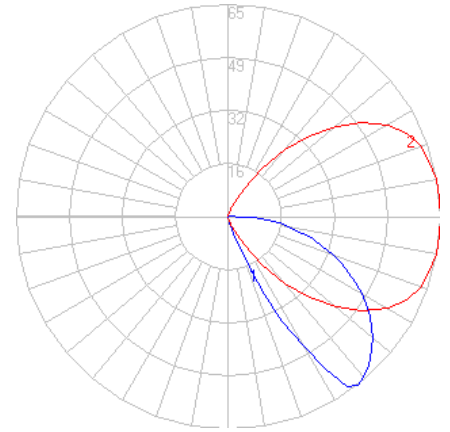
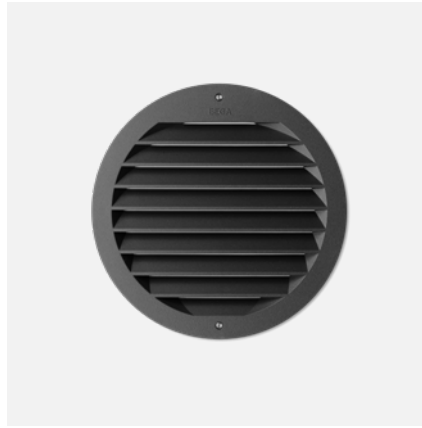
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BEGA

File: 24103K27_BEGA_IES.ies

TEST: BE_24103K4
TEST LAB: BEGA
DATE: 4/18/2016
LUMINAIRE: 24 103K27
LAMP: 5.6W LED



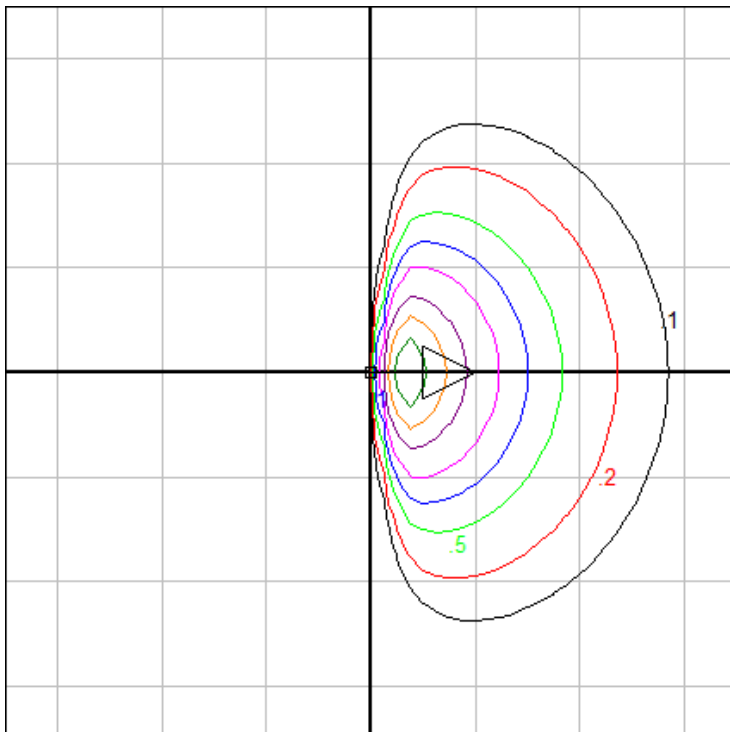
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	75
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	9
Total Luminaire Watts	8
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	64.954 (0H, 37.5V)
Max. Cd. (<90 Vert.)	64.954 (0H, 37.5V)
Max. Cd. (At 90 Deg. Vert.)	3.948 (5.3%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	19.458 (25.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

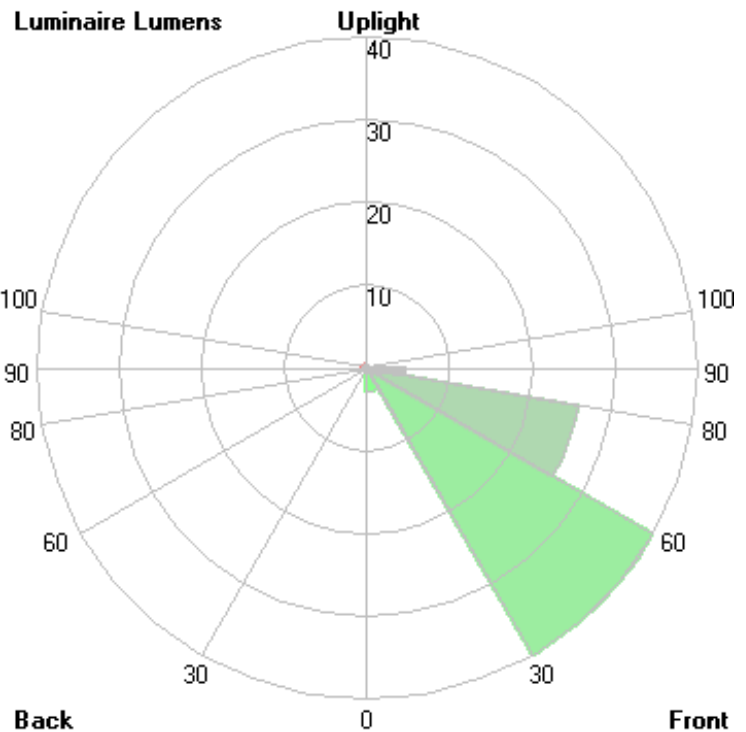
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	2.9	N.A.	3.9
FM (30-60)	40.4	N.A.	53.7
FH (60-80)	26.2	N.A.	34.8
FVH (80-90)	4.8	N.A.	6.4
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	0.5	N.A.	0.6
UH (100-180)	0.4	N.A.	0.5
Total	75.2	N.A.	100.0

BUG Rating B0-U1-G0



Mounting Height: 1 ft.

Grid Spacing: 2 ft.



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