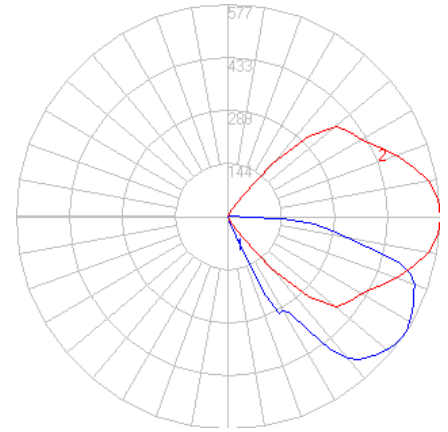
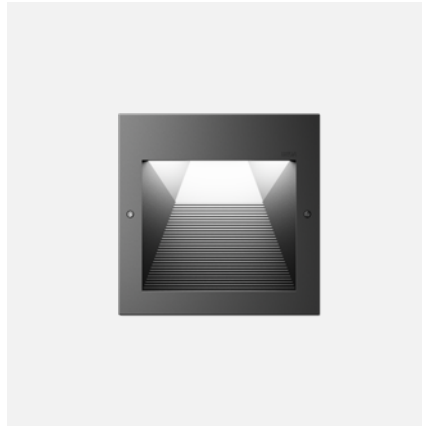


BEGA

File: 24211K4_BEGA_IES.ies

TEST: BE_24211K4
TEST LAB: BEGA
DATE: 4/26/2017
LUMINAIRE: 24 211K4
LAMP: 4.8W LED



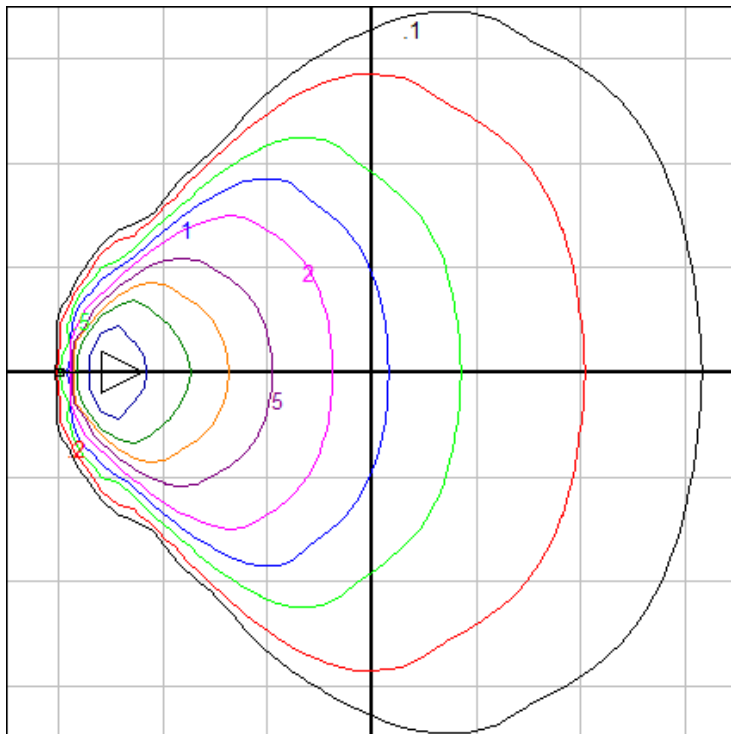
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	581
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	7
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	577.3 (0H, 57.5V)
Max. Cd. (<90 Vert.)	577.3 (0H, 57.5V)
Max. Cd. (At 90 Deg. Vert.)	43 (7.4%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	327.3 (56.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	17.1	N.A.	3.0
FM (30-60)	276.0	N.A.	47.6
FH (60-80)	227.0	N.A.	39.1
FVH (80-90)	53.5	N.A.	9.2
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)	3.4	N.A.	0.6
UH (100-180)	3.5	N.A.	0.6
Total	580.5	N.A.	100.0

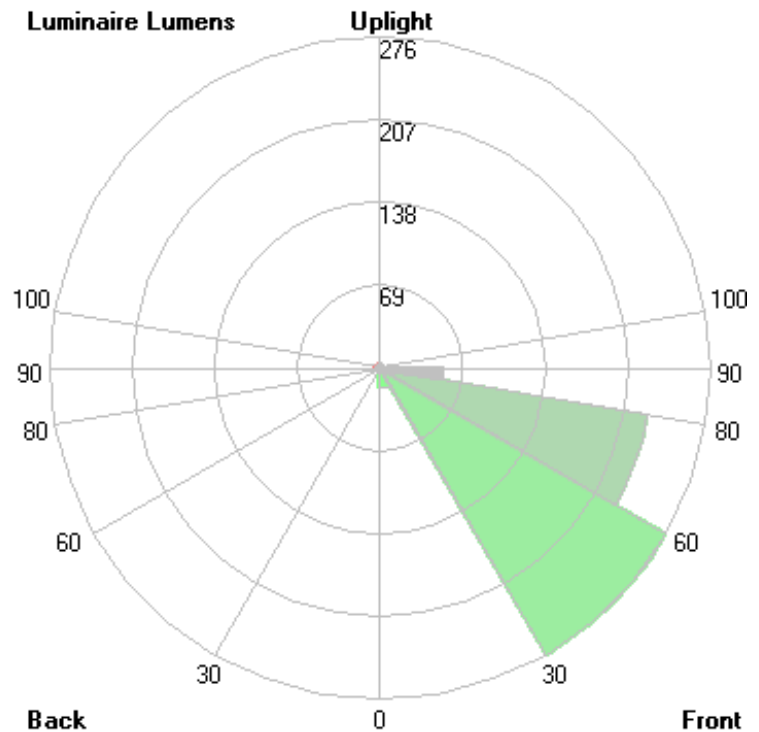
BUG Rating B0-U1-G1



Mounting Height: 1.5 ft.

Grid Spacing: 2.5 ft.

Luminaire Lumens



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

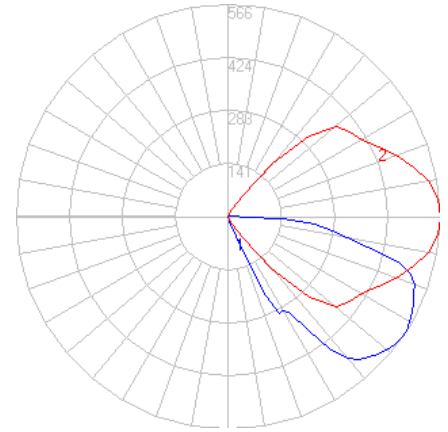
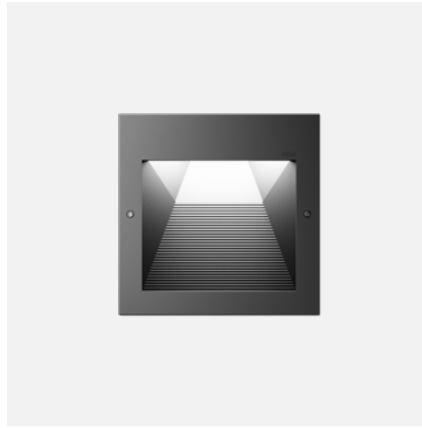
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BEGA

File: 24211K35_BEGA_IES.ies

TEST: BE_24211K4
TEST LAB: BEGA
DATE: 4/26/2017
LUMINAIRE: 24 211K35
LAMP: 4.8W LED



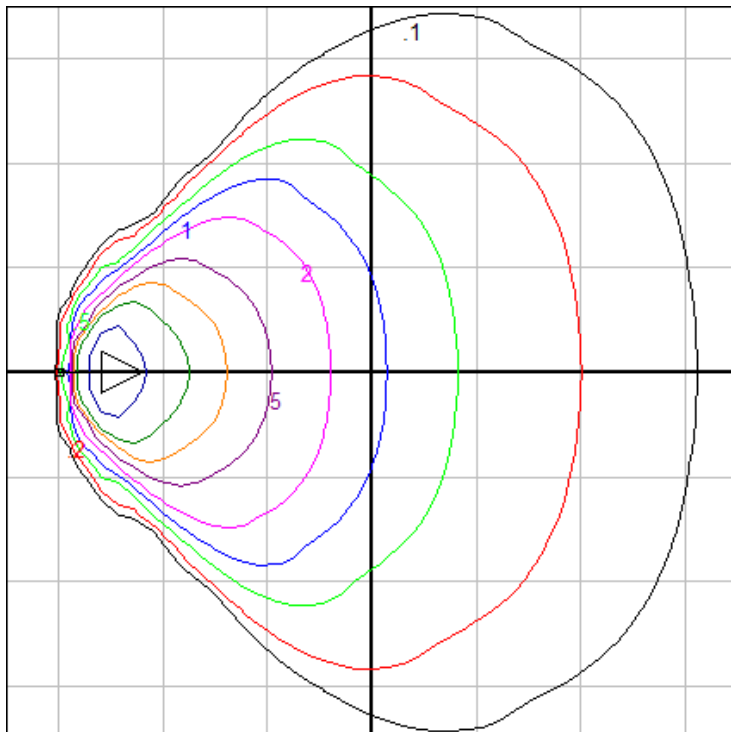
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	569
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	7
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	565.754 (0H, 57.5V)
Max. Cd. (<90 Vert.)	565.754 (0H, 57.5V)
Max. Cd. (At 90 Deg. Vert.)	42.14 (7.4%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	320.754 (56.4%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	16.8	N.A.	3.0
FM (30-60)	270.5	N.A.	47.5
FH (60-80)	222.5	N.A.	39.1
FVH (80-90)	52.4	N.A.	9.2
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)	3.4	N.A.	0.6
UH (100-180)	3.4	N.A.	0.6
Total	569.0	N.A.	100.0

BUG Rating B0-U1-G1

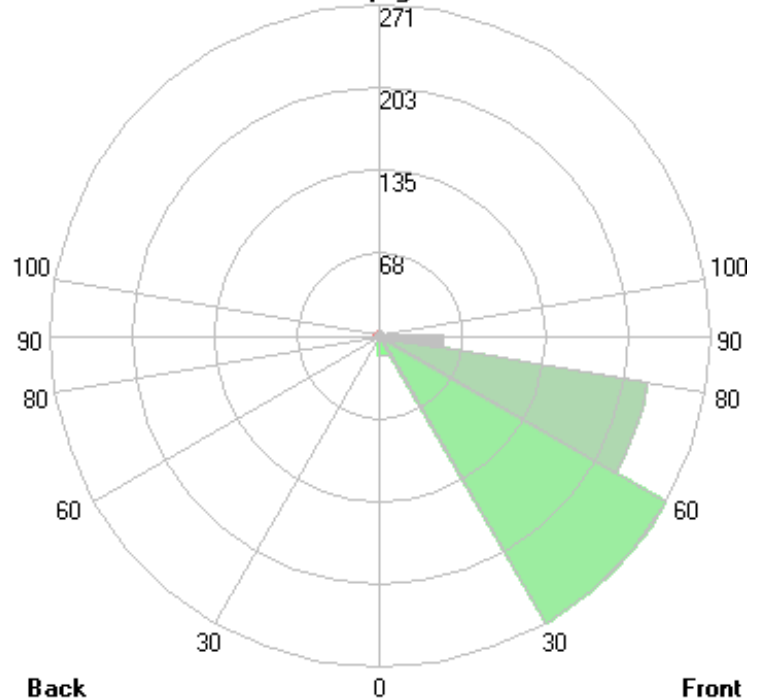


Mounting Height: 1.5 ft.

Grid Spacing: 2.5 ft.

Luminaire Lumens

Uplight



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

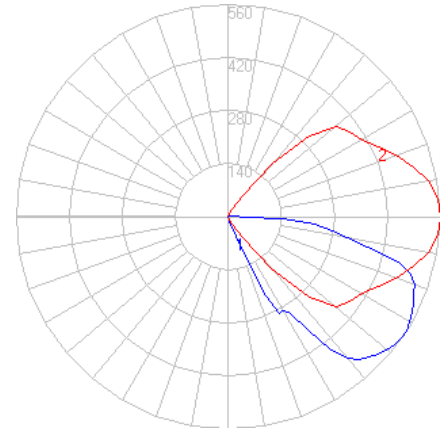
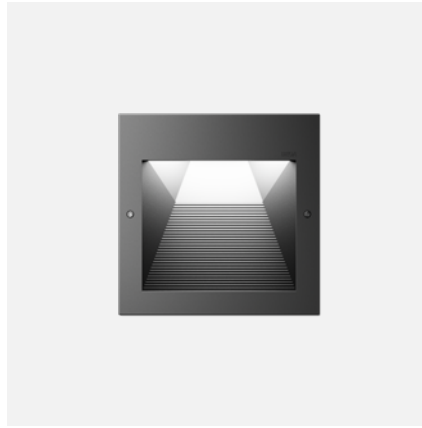
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BEGA

File: 24211K3_BEGA_IES.ies

TEST: BE_24211K4
TEST LAB: BEGA
DATE: 4/26/2017
LUMINAIRE: 24 211K3
LAMP: 4.8W LED



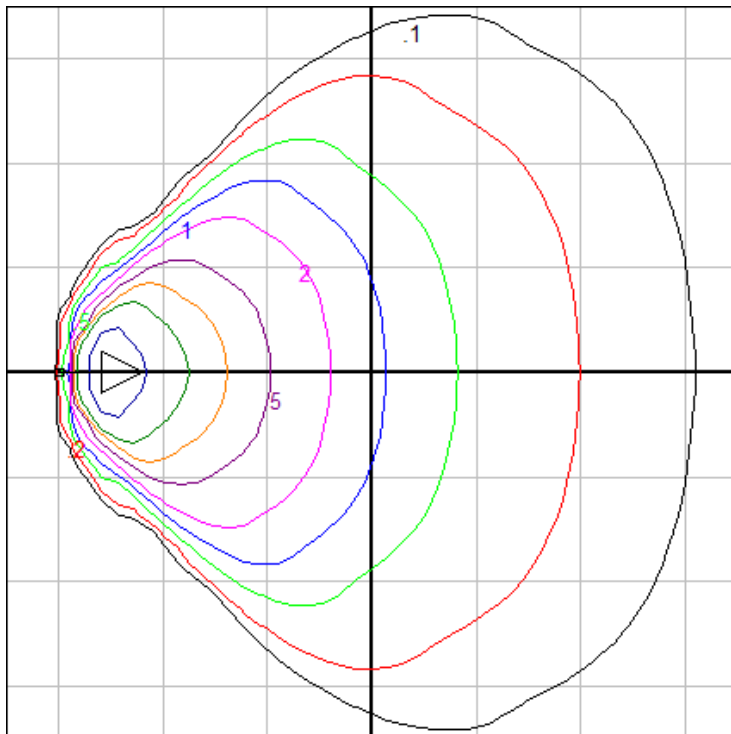
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	563
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	7
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	559.981 (0H, 57.5V)
Max. Cd. (<90 Vert.)	559.981 (0H, 57.5V)
Max. Cd. (At 90 Deg. Vert.)	41.71 (7.4%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	317.481 (56.4%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	16.6	N.A.	3.0
FM (30-60)	267.8	N.A.	47.5
FH (60-80)	220.2	N.A.	39.1
FVH (80-90)	51.9	N.A.	9.2
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)	3.3	N.A.	0.6
UH (100-180)	3.4	N.A.	0.6
Total	563.2	N.A.	100.0

BUG Rating B0-U1-G1

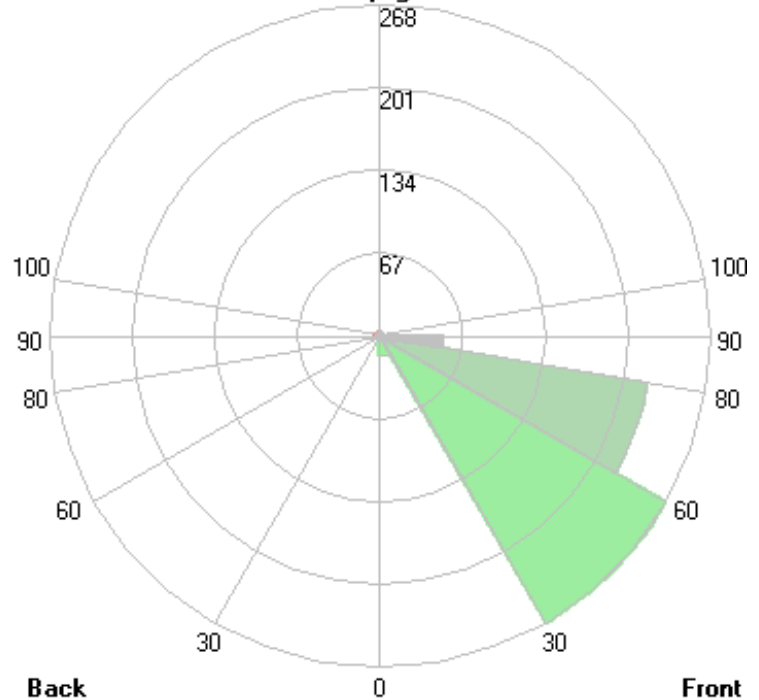


Mounting Height: 1.5 ft.

Grid Spacing: 2.5 ft.

Luminaire Lumens

Uplight



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

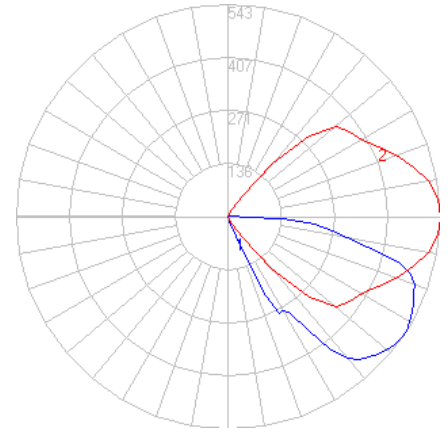
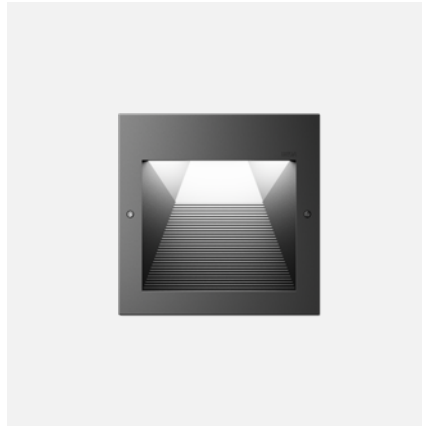
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BEGA

File: 24211K27_BEGA_IES.ies

TEST: BE_24211K4
TEST LAB: BEGA
DATE: 4/26/2017
LUMINAIRE: 24 211K27
LAMP: 4.8W LED



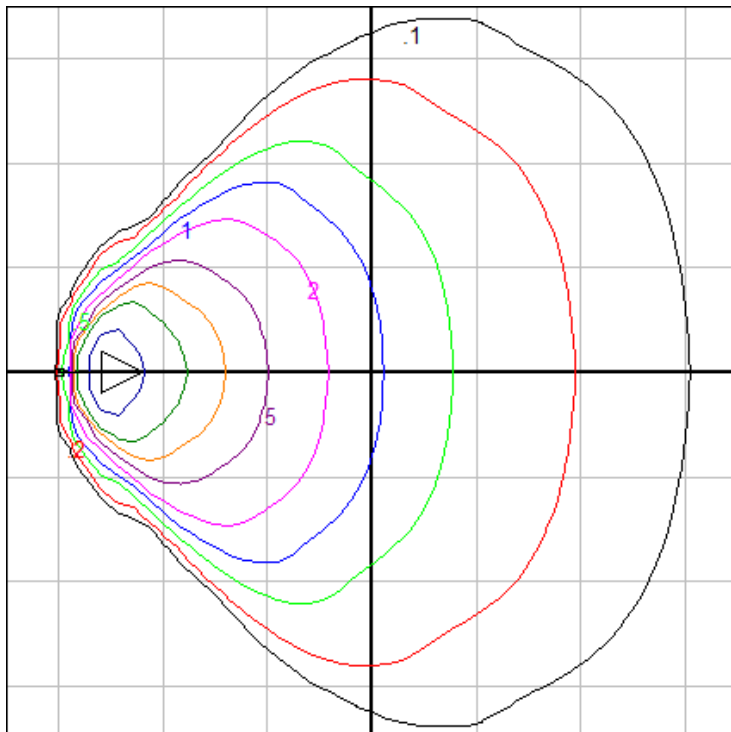
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	546
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	7
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	542.662 (0H, 57.5V)
Max. Cd. (<90 Vert.)	542.662 (0H, 57.5V)
Max. Cd. (At 90 Deg. Vert.)	40.42 (7.4%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	307.662 (56.3%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

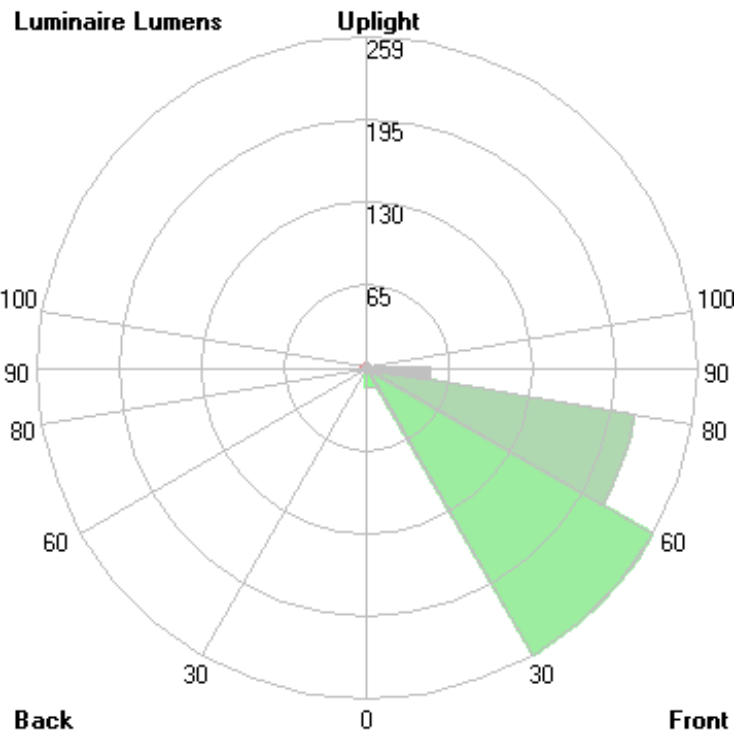
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	16.1	N.A.	3.0
FM (30-60)	259.5	N.A.	47.5
FH (60-80)	213.4	N.A.	39.1
FVH (80-90)	50.3	N.A.	9.2
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	0.0	N.A.	0.0
BH (60-80)	0.0	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	3.2	N.A.	0.6
UH (100-180)	3.3	N.A.	0.6
Total	545.8	N.A.	100.0

BUG Rating B0-U1-G1



Mounting Height: 1.5 ft.

Grid Spacing: 2.5 ft.



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