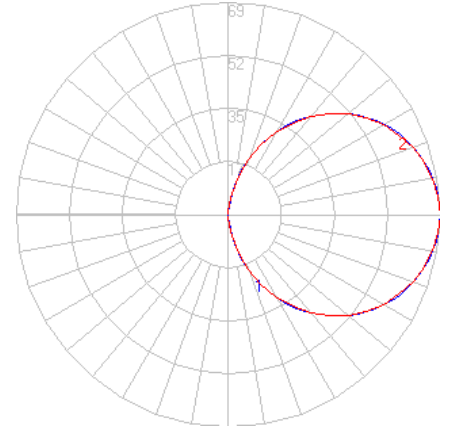
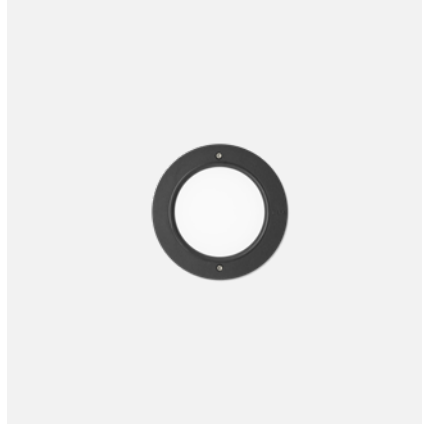


BEGA

File: 24016K4_BEGA_IES.ies

TEST: BE_24016K4
TEST LAB: BEGA
DATE: 4/26/2016
LUMINAIRE: 24 016K4
LAMP: 1.9W LED



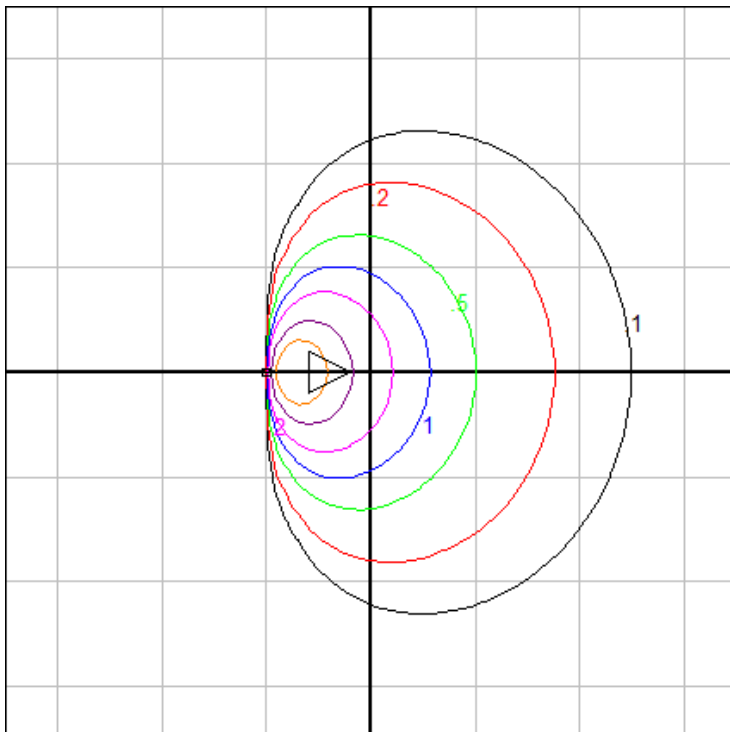
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	198
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	33
Total Luminaire Watts	6
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	69 (0H, 90V)
Max. Cd. (<90 Vert.)	68.8 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	69 (34.8%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	68.8 (34.7%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

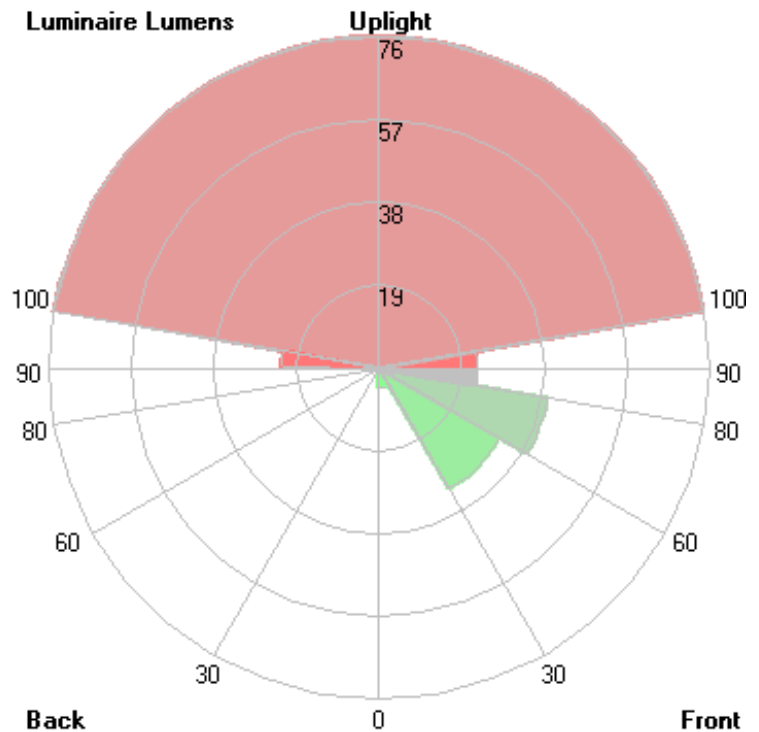
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	4.5	N.A.	2.3
FM (30-60)	32.3	N.A.	16.3
FH (60-80)	39.5	N.A.	20.0
FVH (80-90)	22.6	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	22.6	N.A.	11.4
UH (100-180)	76.4	N.A.	38.6
Total	197.9	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 1 ft.

Grid Spacing: 2.5 ft.



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

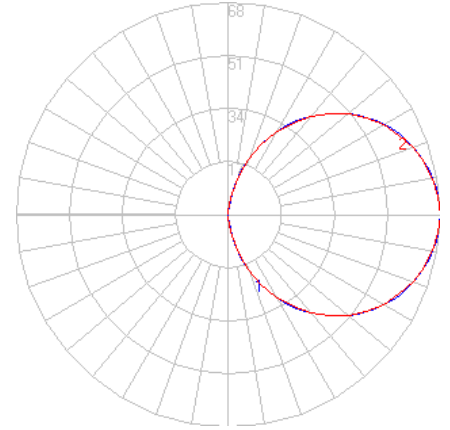
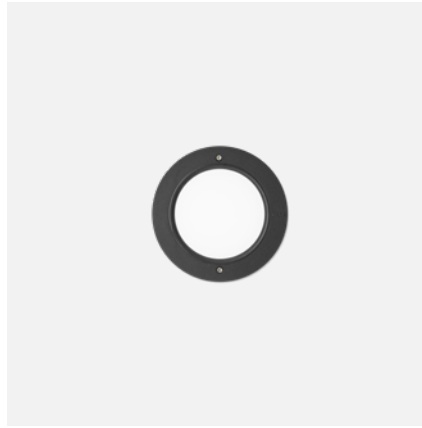
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BEGA

File: 24016K35_BEGA_IES.ies

TEST: BE_24016K4
TEST LAB: BEGA
DATE: 4/26/2016
LUMINAIRE: 24 016K35
LAMP: 1.9W LED



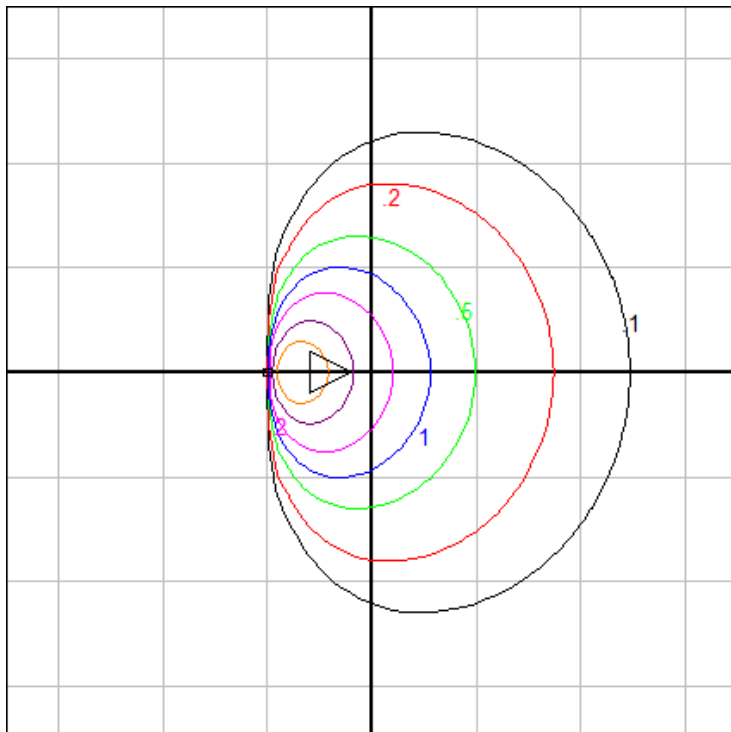
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	194
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	32
Total Luminaire Watts	6
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	67.62 (0H, 90V)
Max. Cd. (<90 Vert.)	67.424 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	67.62 (34.9%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	67.424 (34.8%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

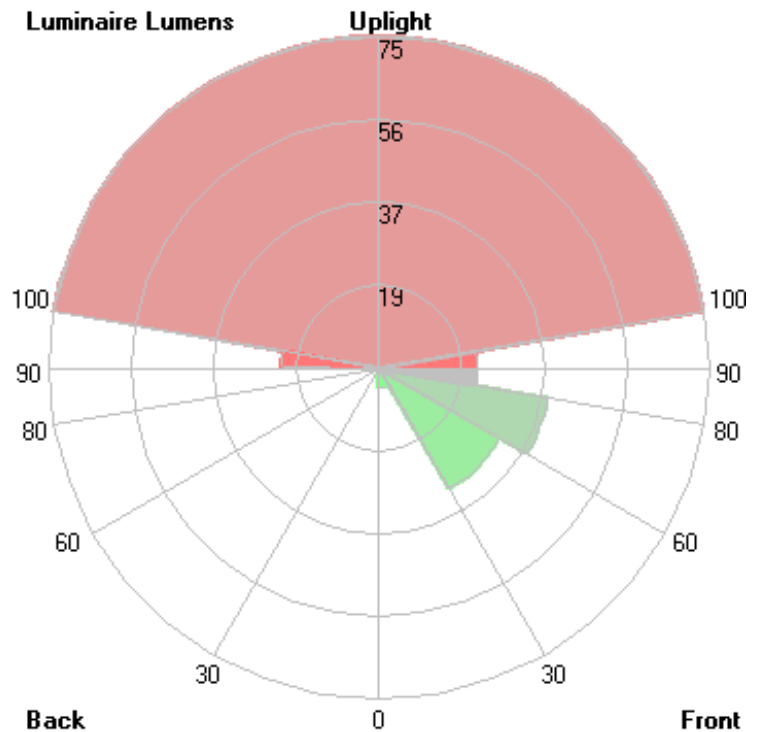
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	4.4	N.A.	2.3
FM (30-60)	31.6	N.A.	16.3
FH (60-80)	38.8	N.A.	20.0
FVH (80-90)	22.1	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	22.1	N.A.	11.4
UH (100-180)	74.9	N.A.	38.6
Total	193.9	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 1 ft.

Grid Spacing: 2.5 ft.



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

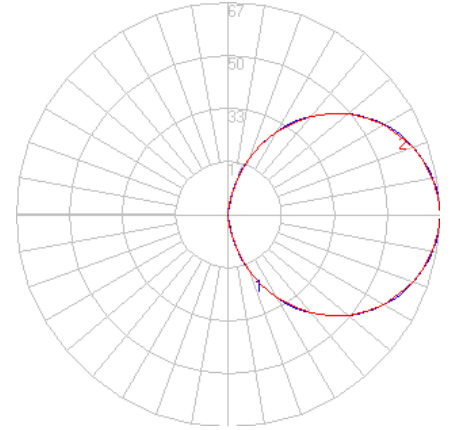
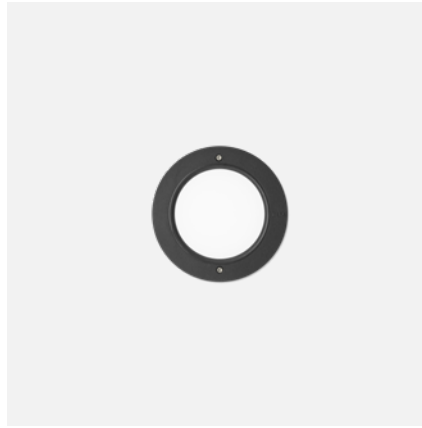
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BEGA

File: 24016K3_BEGA_IES.ies

TEST: BE_24016K4
TEST LAB: BEGA
DATE: 4/26/2016
LUMINAIRE: 24 016K3
LAMP: 1.9W LED



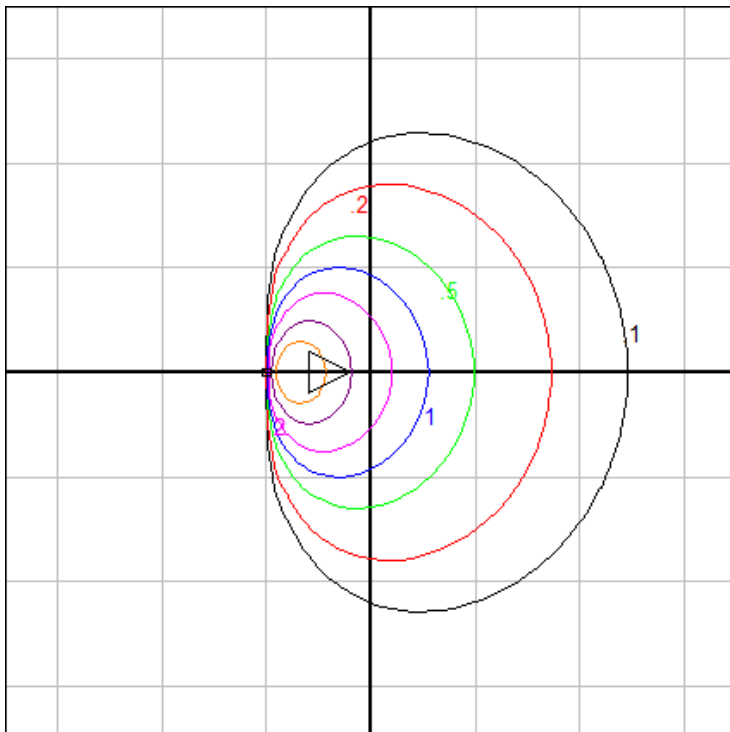
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	192
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	32
Total Luminaire Watts	6
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	66.93 (0H, 90V)
Max. Cd. (<90 Vert.)	66.736 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	66.93 (34.9%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	66.736 (34.8%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

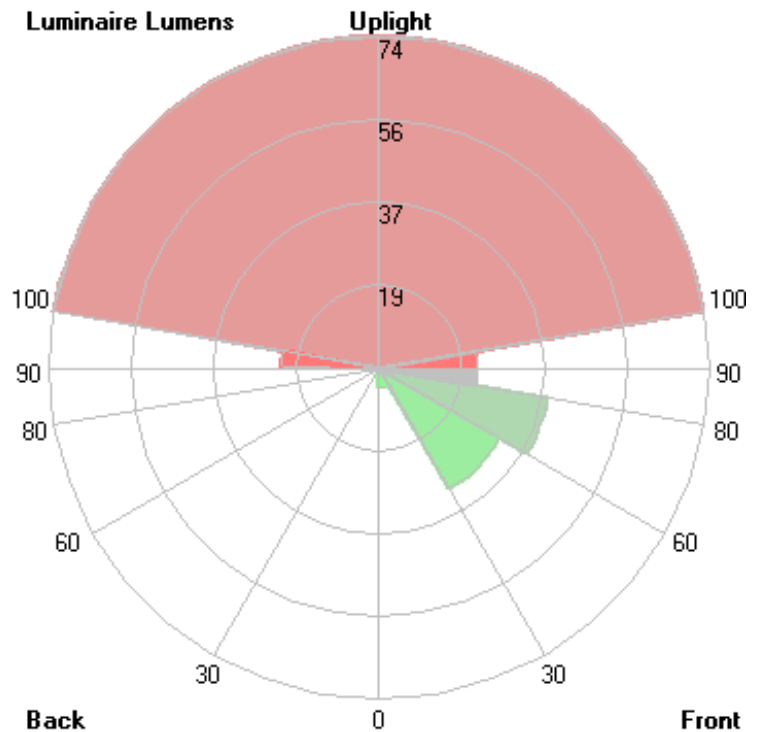
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	4.4	N.A.	2.3
FM (30-60)	31.3	N.A.	16.3
FH (60-80)	38.4	N.A.	20.0
FVH (80-90)	21.9	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	21.9	N.A.	11.4
UH (100-180)	74.1	N.A.	38.6
Total	192.0	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 1 ft.

Grid Spacing: 2.5 ft.



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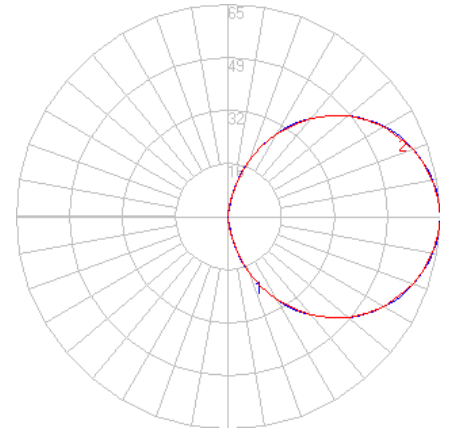
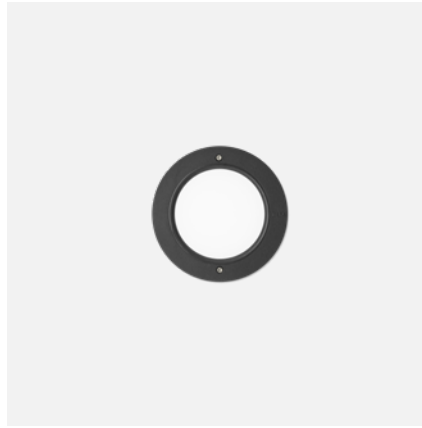
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BEGA

File: 24016K27_BEGA_IES.ies

TEST: BE_24016K4
TEST LAB: BEGA
DATE: 4/26/2016
LUMINAIRE: 24 016K27
LAMP: 1.9W LED



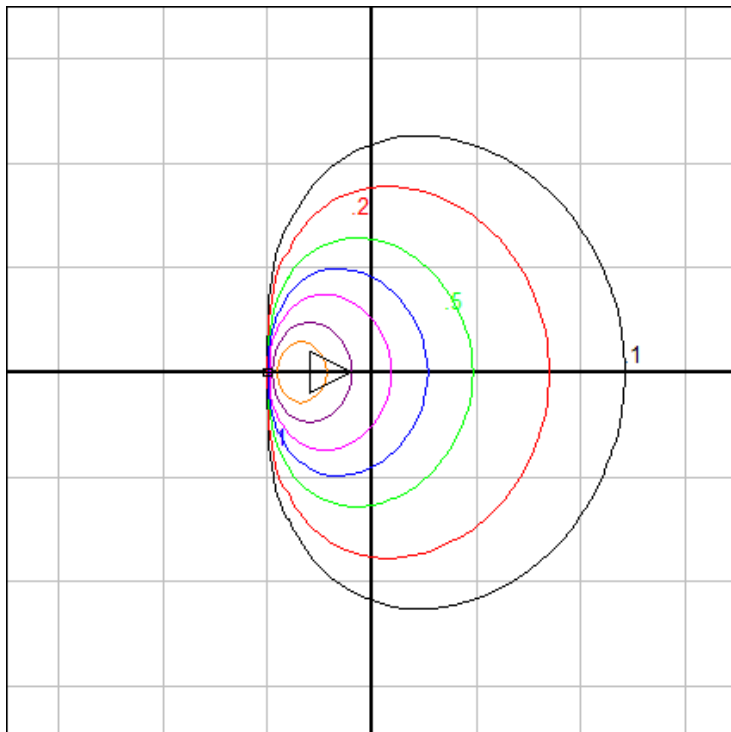
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	186
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	31
Total Luminaire Watts	6
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	64.86 (0H, 90V)
Max. Cd. (<90 Vert.)	64.672 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	64.86 (34.9%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	64.672 (34.8%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

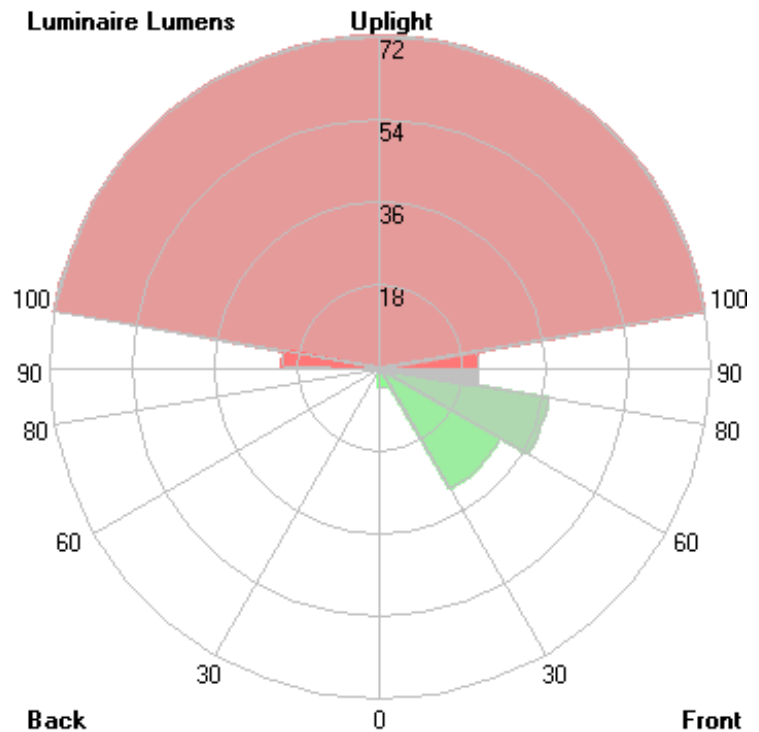
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	4.3	N.A.	2.3
FM (30-60)	30.4	N.A.	16.3
FH (60-80)	37.2	N.A.	20.0
FVH (80-90)	21.2	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	21.2	N.A.	11.4
UH (100-180)	71.8	N.A.	38.6
Total	186.1	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 1 ft.

Grid Spacing: 2.5 ft.



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