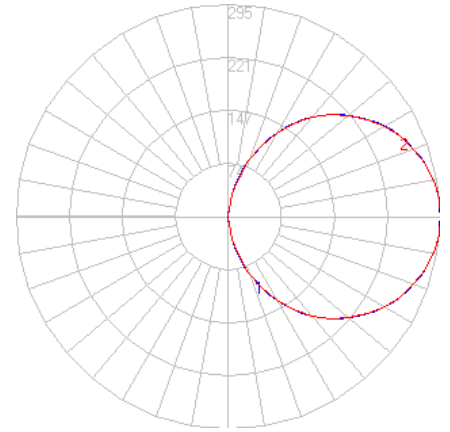
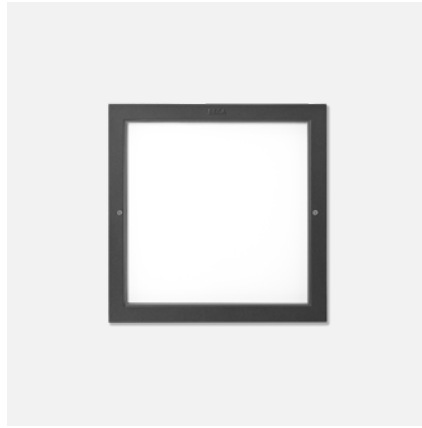


BEGA

File: 24200K4_BEGA_IES.ies

TEST: BE_24200K4
TEST LAB: BEGA
DATE: 4/26/2017
LUMINAIRE: 24 200K4
LAMP: 9.3W LED



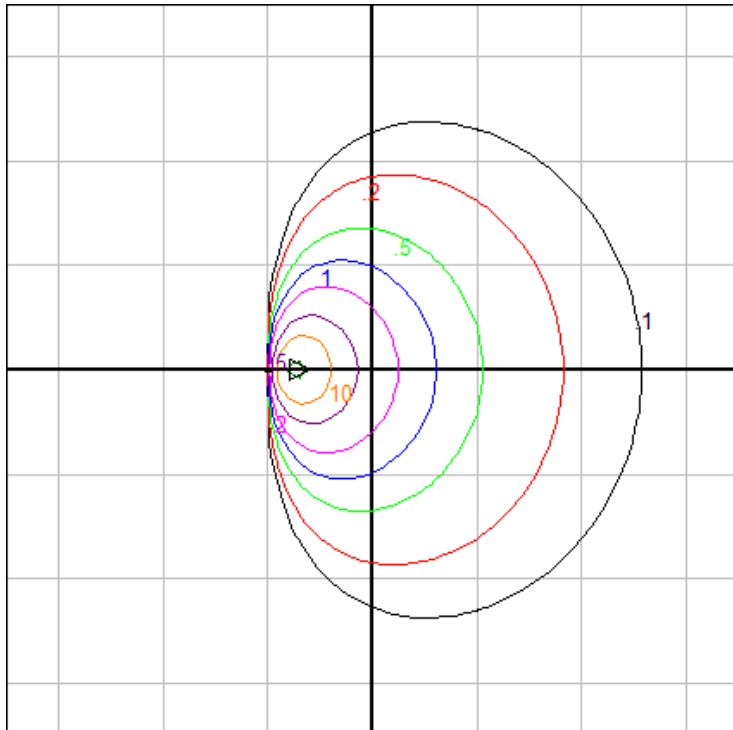
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	853
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	12
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	294.9 (0H, 90V)
Max. Cd. (<90 Vert.)	294.7 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	294.9 (34.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	294.7 (34.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

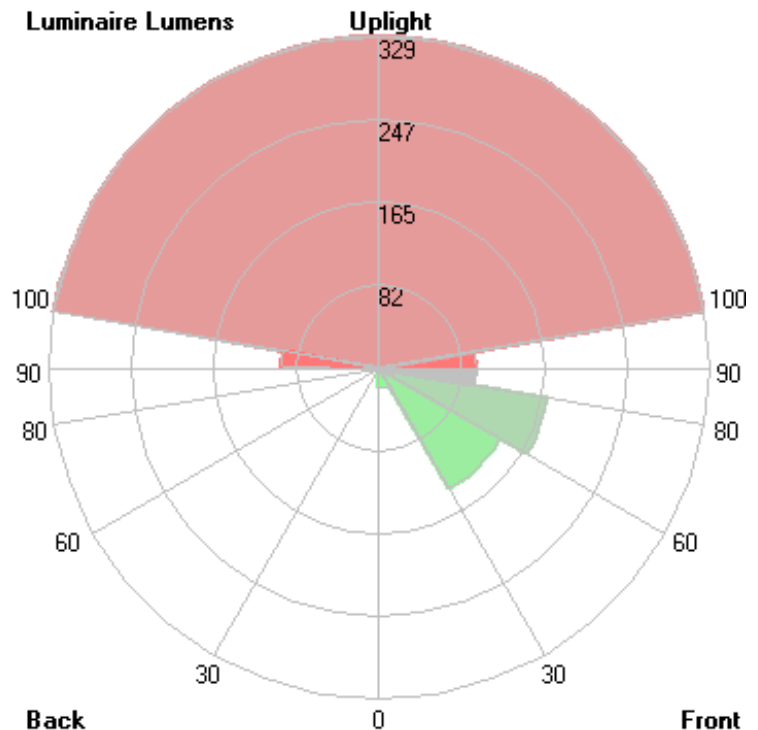
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	19.7	N.A.	2.3
FM (30-60)	139.4	N.A.	16.3
FH (60-80)	170.2	N.A.	20.0
FVH (80-90)	97.1	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	97.1	N.A.	11.4
UH (100-180)	329.3	N.A.	38.6
Total	852.8	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



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

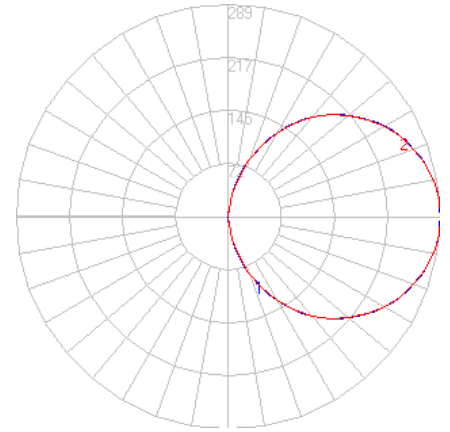
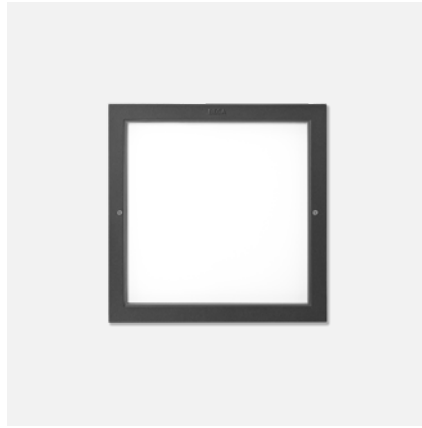
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BEGA

File: 24200K35_BEGA_IES.ies

TEST: BE_24200K4
TEST LAB: BEGA
DATE: 4/26/2017
LUMINAIRE: 24 200K35
LAMP: 9.3W LED



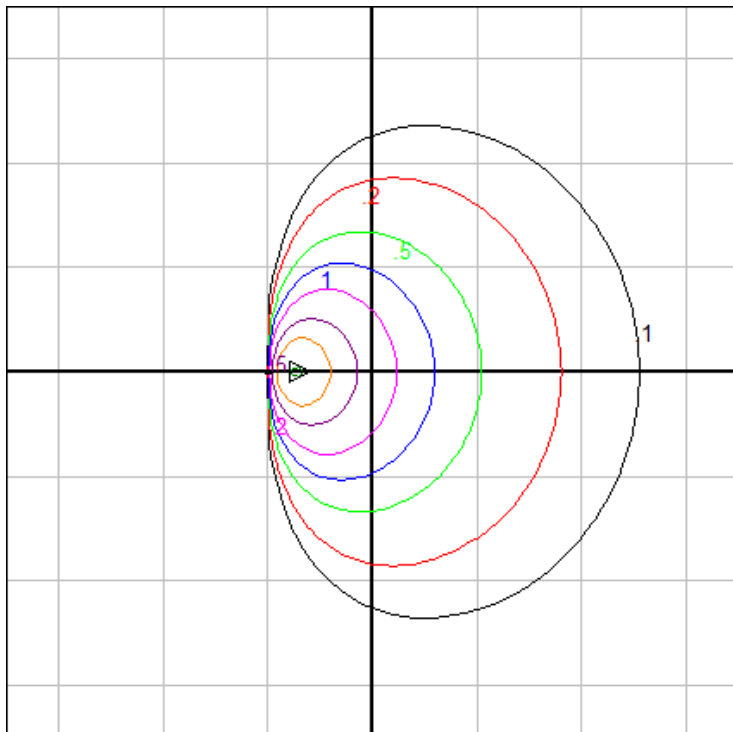
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	836
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	12
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	289.002 (0H, 90V)
Max. Cd. (<90 Vert.)	288.806 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	289.002 (34.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	288.806 (34.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

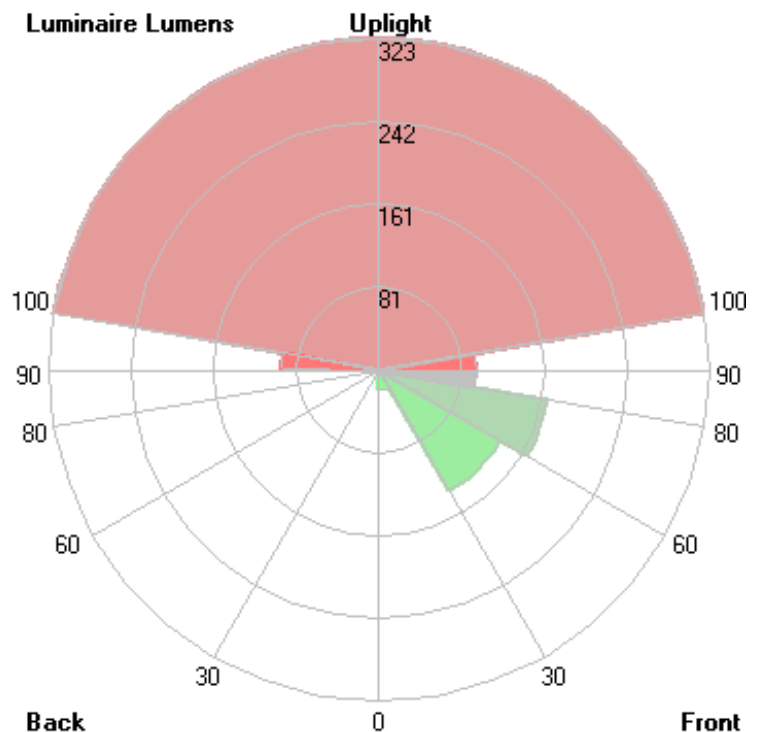
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	19.3	N.A.	2.3
FM (30-60)	136.6	N.A.	16.3
FH (60-80)	166.8	N.A.	20.0
FVH (80-90)	95.1	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	95.1	N.A.	11.4
UH (100-180)	322.7	N.A.	38.6
Total	835.6	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



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

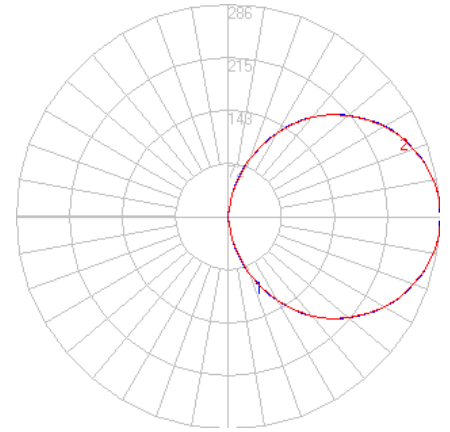
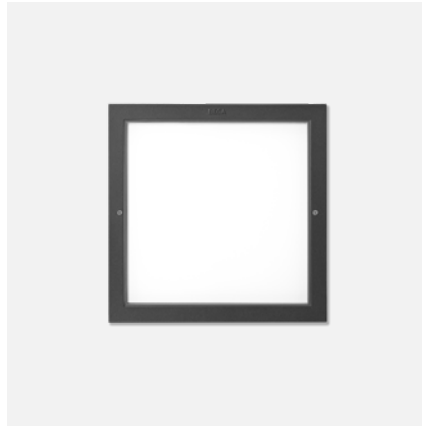
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BEGA

File: 24200K3_BEGA_IES.ies

TEST: BE_24200K4
TEST LAB: BEGA
DATE: 4/26/2017
LUMINAIRE: 24 200K3
LAMP: 9.3W LED



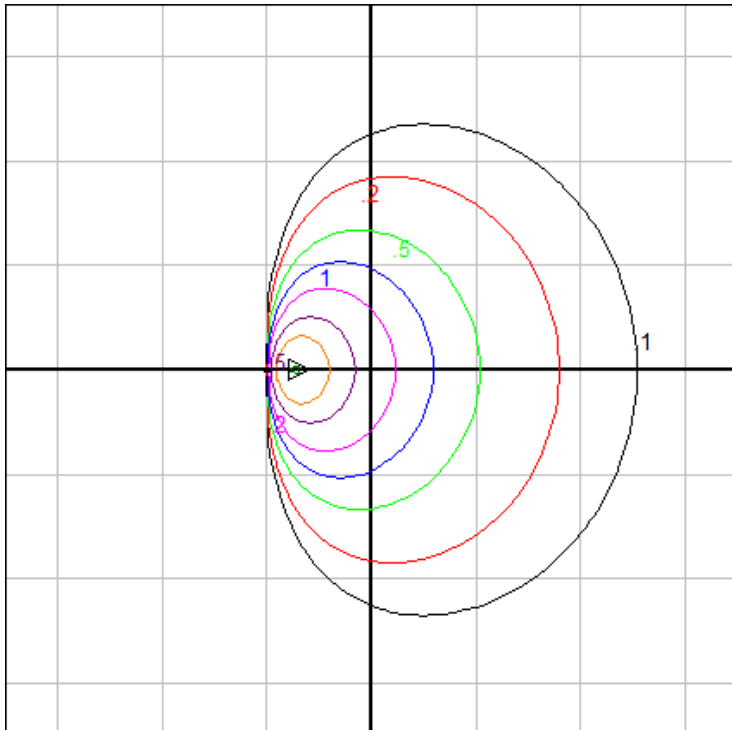
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	827
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	12
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	286.053 (0H, 90V)
Max. Cd. (<90 Vert.)	285.859 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	286.053 (34.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	285.859 (34.6%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

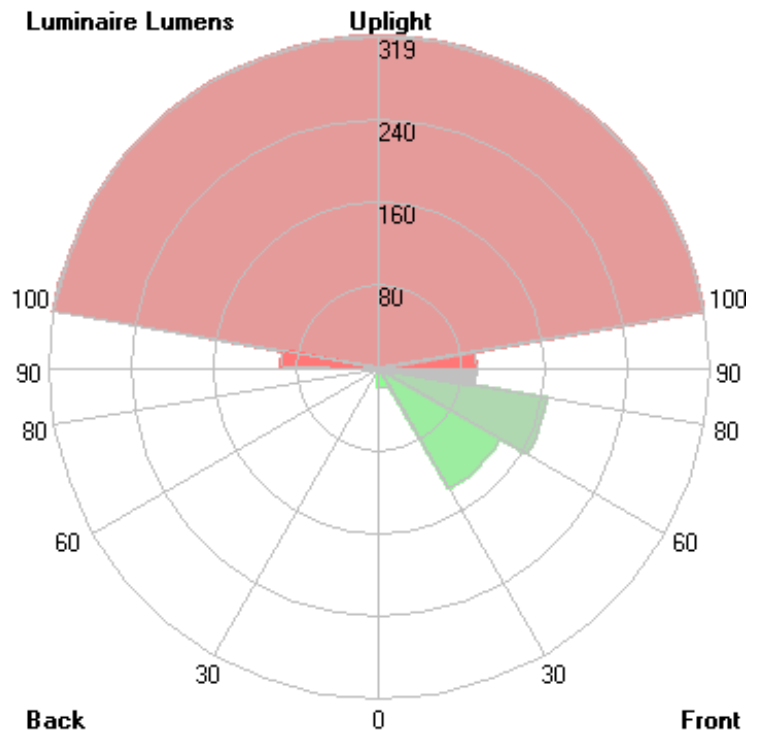
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	19.1	N.A.	2.3
FM (30-60)	135.2	N.A.	16.3
FH (60-80)	165.1	N.A.	20.0
FVH (80-90)	94.2	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	94.2	N.A.	11.4
UH(100-180)	319.4	N.A.	38.6
Total	827.2	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



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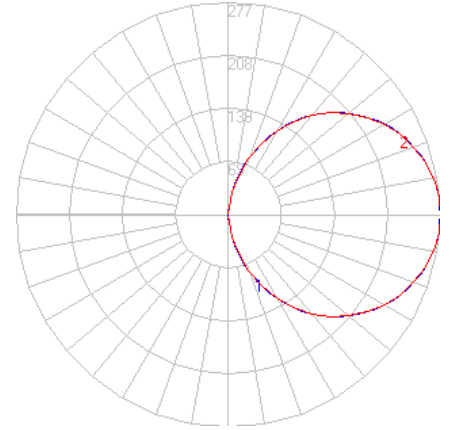
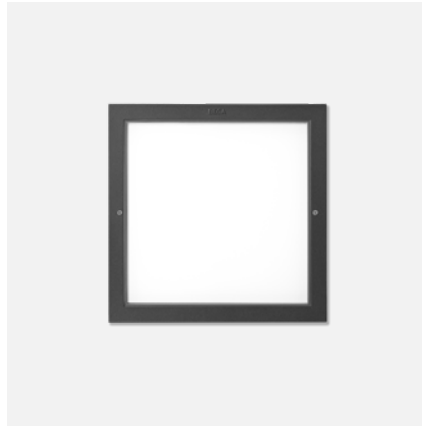
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BEGA

File: 24200K27_BEGA_IES.ies

TEST: BE_24200K4
TEST LAB: BEGA
DATE: 4/26/2017
LUMINAIRE: 24 200K27
LAMP: 9.3W LED



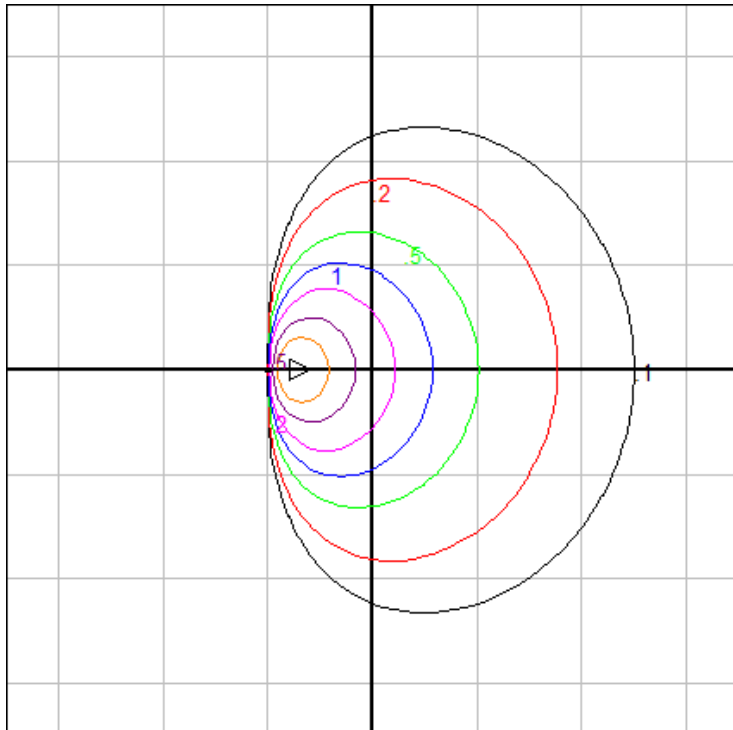
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	802
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	12
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	277.206 (0H, 90V)
Max. Cd. (<90 Vert.)	277.018 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	277.206 (34.6%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	277.018 (34.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

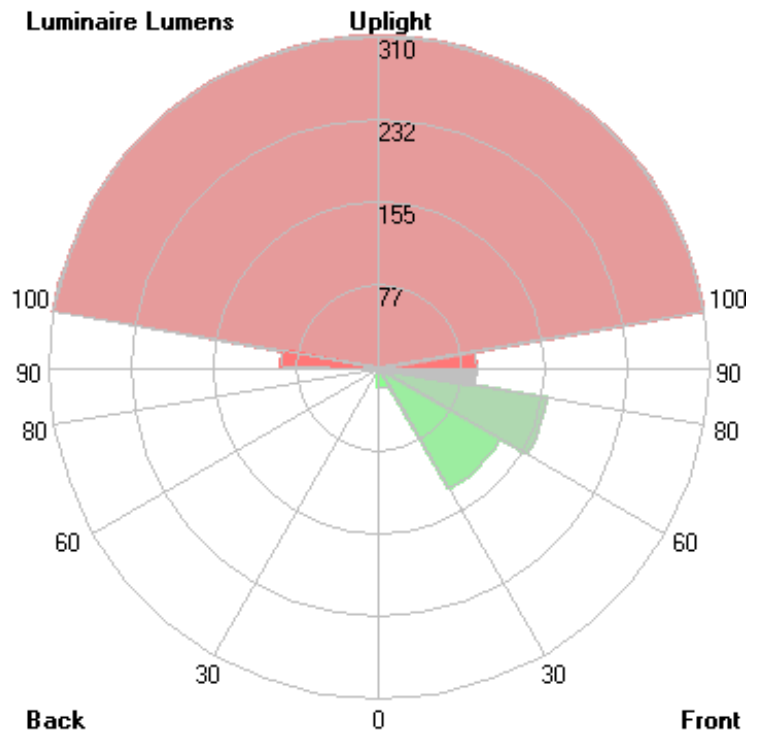
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	18.5	N.A.	2.3
FM (30-60)	131.0	N.A.	16.3
FH (60-80)	160.0	N.A.	20.0
FVH (80-90)	91.2	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	91.2	N.A.	11.4
UH (100-180)	309.5	N.A.	38.6
Total	801.4	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



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