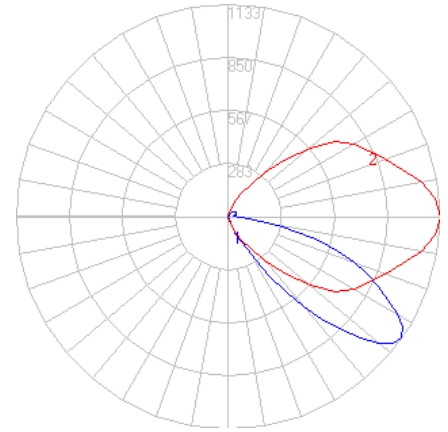
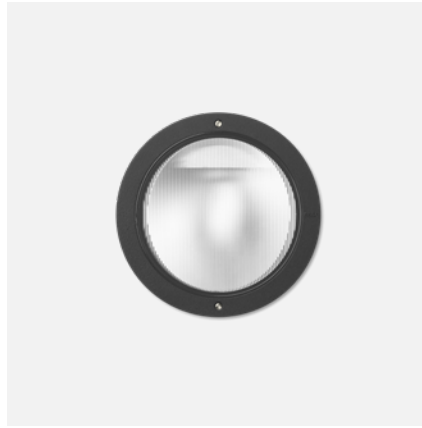


BEGA

File: 24111K4_BEGA_IES.ies

TEST: BE_24111K4
TEST LAB: BEGA
DATE: 3/21/2016
LUMINAIRE: 24 111K4
LAMP: 8.9W LED



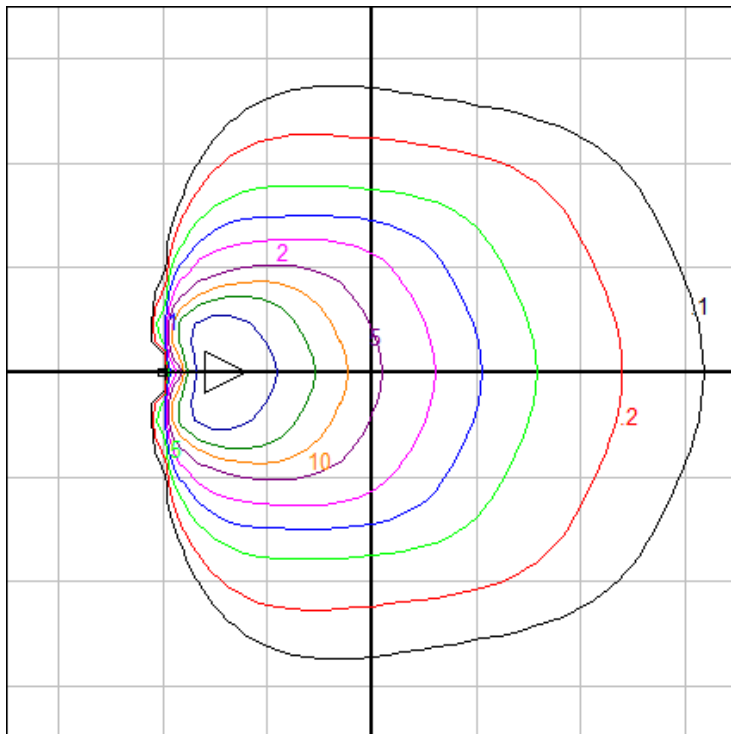
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	839
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	0.08
Max. Cd.	1133 (0H, 55V)
Max. Cd. (<90 Vert.)	1133 (0H, 55V)
Max. Cd. (At 90 Deg. Vert.)	50.5 (6.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	267.1 (31.8%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

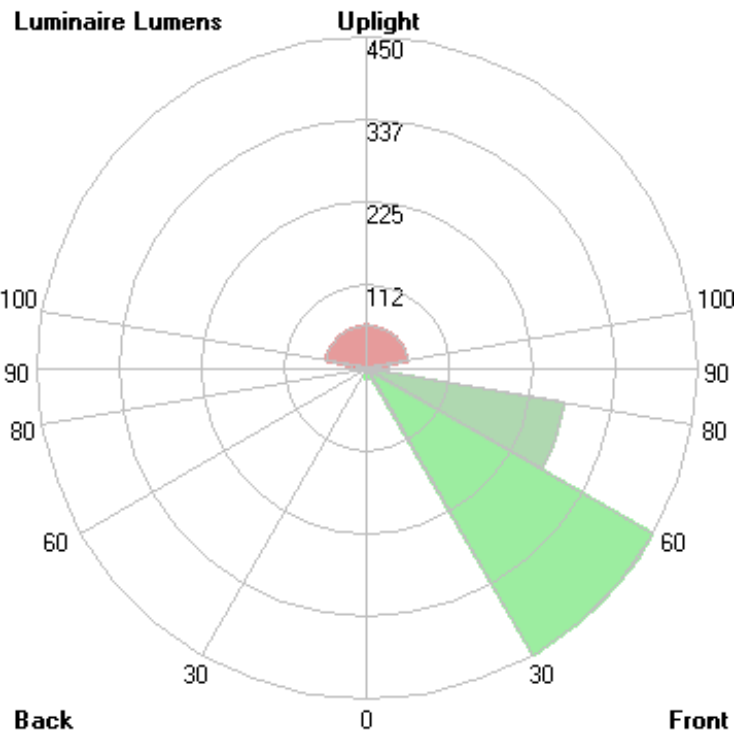
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	16.7	N.A.	2.0
FM (30-60)	450.0	N.A.	53.6
FH (60-80)	272.9	N.A.	32.5
FVH (80-90)	29.3	N.A.	3.5
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	13.6	N.A.	1.6
UH (100-180)	56.4	N.A.	6.7
Total	838.9	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 1.5 ft.

Grid Spacing: 2.5 ft.



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

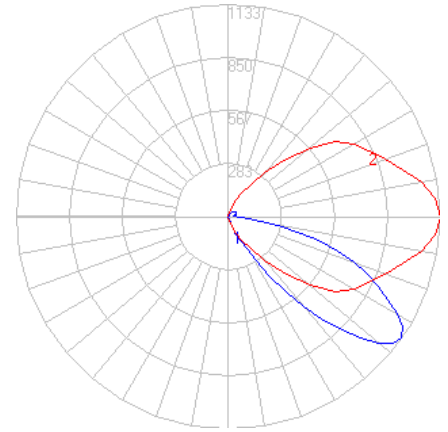
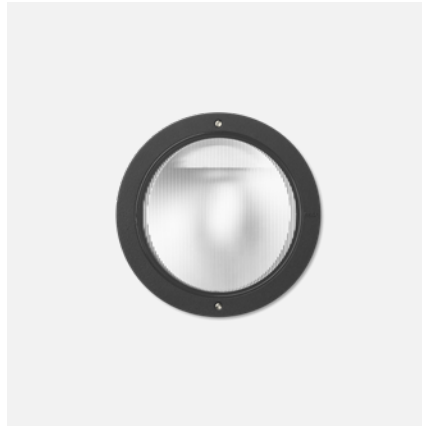
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BEGA

File: 24111K35_BEGA_IES.ies

TEST: BE_24111K4
TEST LAB: BEGA
DATE: 3/21/2016
LUMINAIRE: 24 111K35
LAMP: 8.9W LED



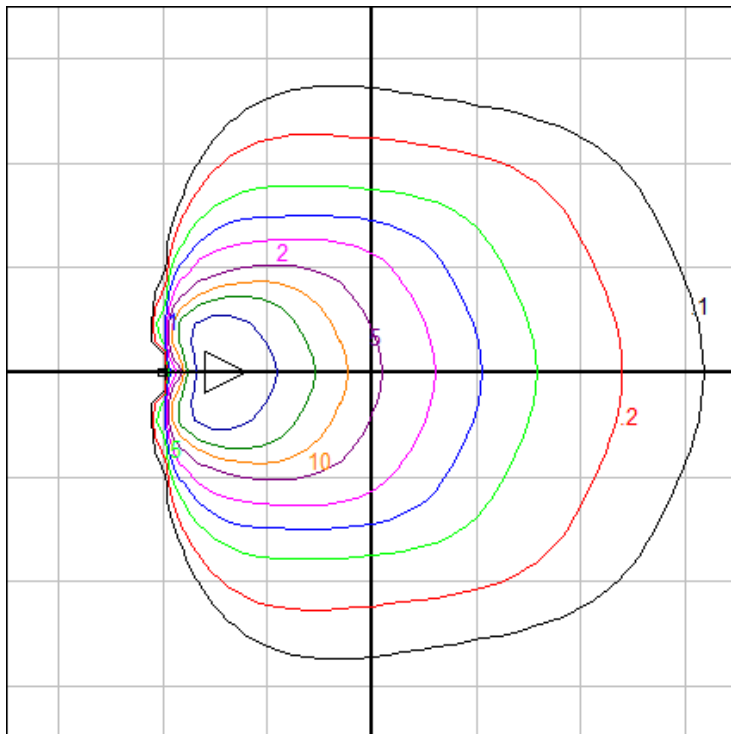
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	839
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	0.08
Max. Cd.	1133 (0H, 55V)
Max. Cd. (<90 Vert.)	1133 (0H, 55V)
Max. Cd. (At 90 Deg. Vert.)	50.5 (6.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	267.1 (31.8%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

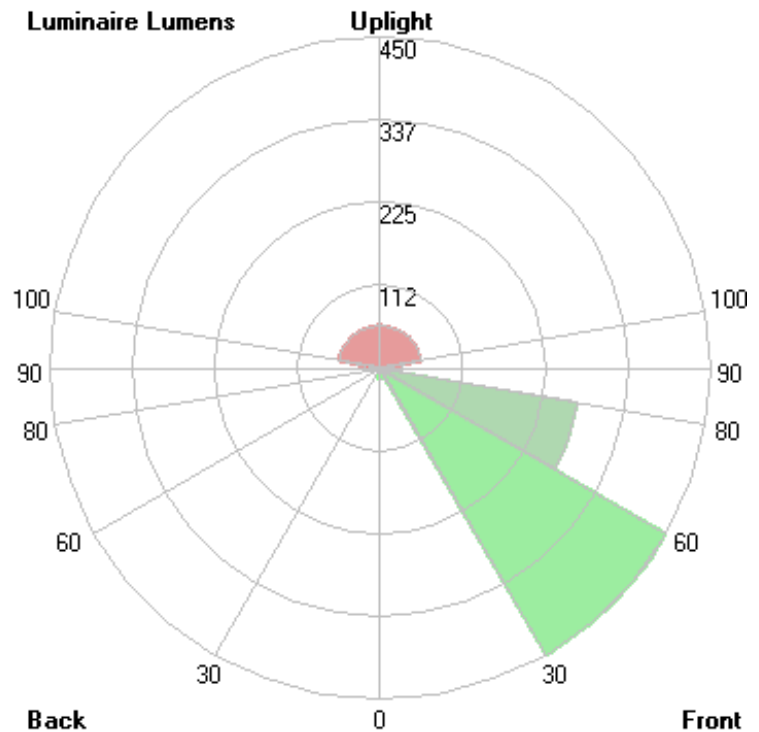
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	16.7	N.A.	2.0
FM (30-60)	450.0	N.A.	53.6
FH (60-80)	272.9	N.A.	32.5
FVH (80-90)	29.3	N.A.	3.5
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	13.6	N.A.	1.6
UH (100-180)	56.4	N.A.	6.7
Total	838.9	N.A.	100.0

BUG Rating **B0-U3-G1**



Mounting Height: 1.5 ft.

Grid Spacing: 2.5 ft.



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

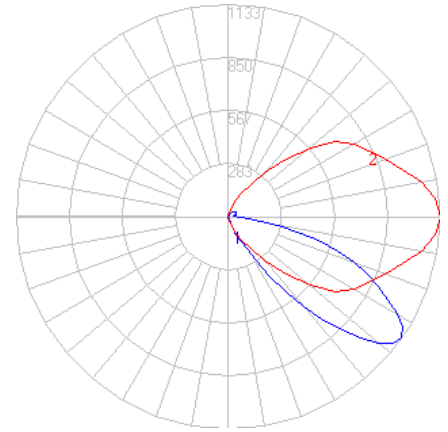
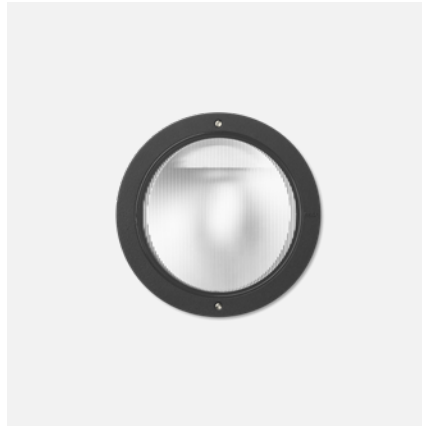
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BEGA

File: 24111K3_BEGA_IES.ies

TEST: BE_24111K4
TEST LAB: BEGA
DATE: 3/21/2016
LUMINAIRE: 24 111K3
LAMP: 8.9W LED



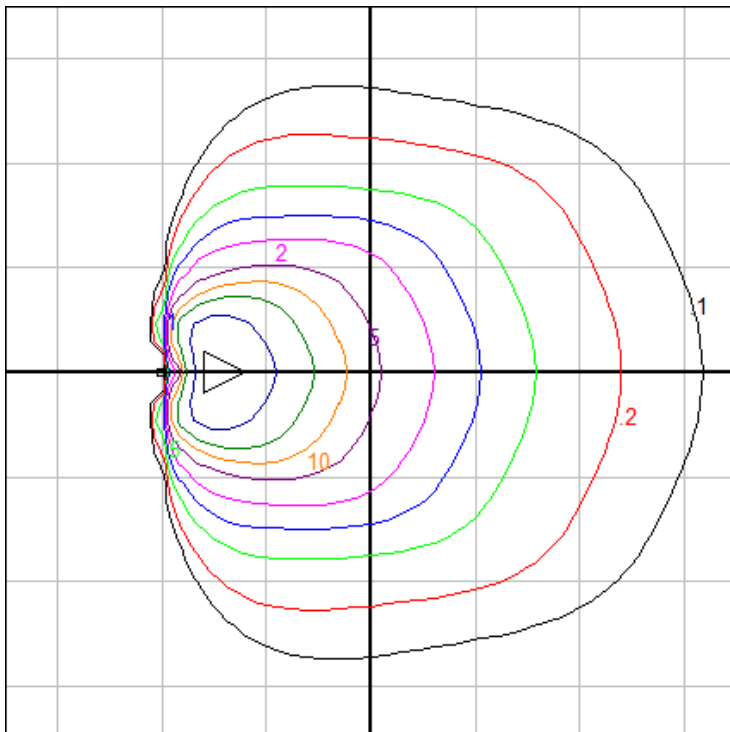
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	839
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	0.08
Max. Cd.	1133 (0H, 55V)
Max. Cd. (<90 Vert.)	1133 (0H, 55V)
Max. Cd. (At 90 Deg. Vert.)	50.5 (6.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	267.1 (31.8%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

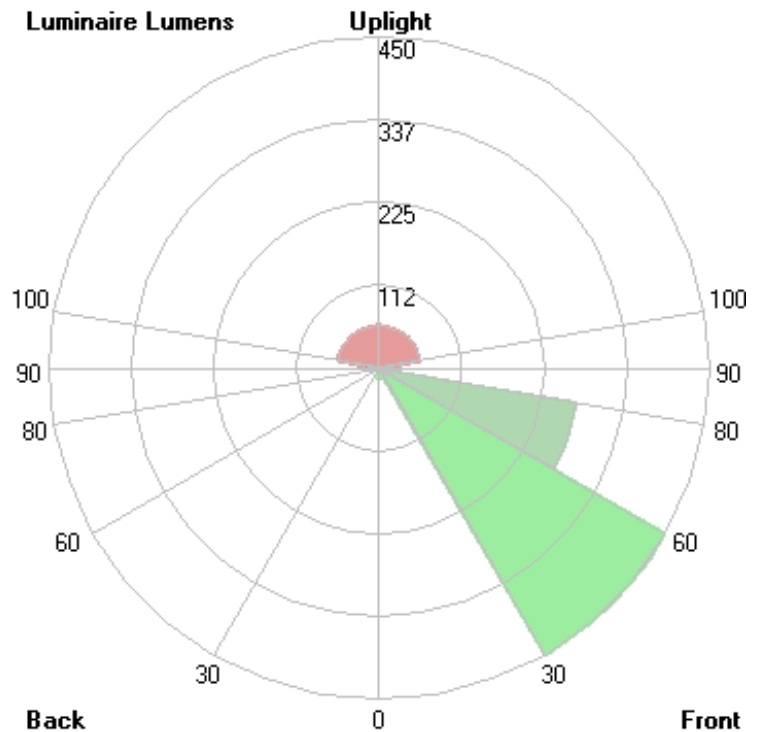
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	16.7	N.A.	2.0
FM (30-60)	450.0	N.A.	53.6
FH (60-80)	272.9	N.A.	32.5
FVH (80-90)	29.3	N.A.	3.5
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	13.6	N.A.	1.6
UH (100-180)	56.4	N.A.	6.7
Total	838.9	N.A.	100.0

BUG Rating **B0-U3-G1**



Mounting Height: 1.5 ft.

Grid Spacing: 2.5 ft.



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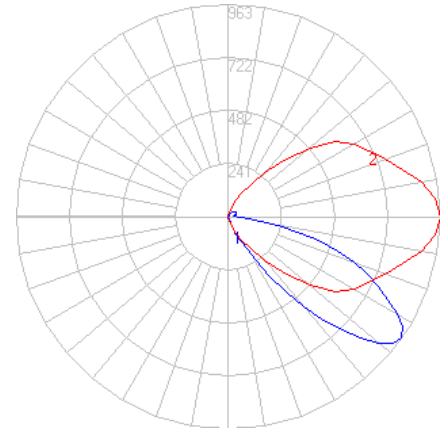
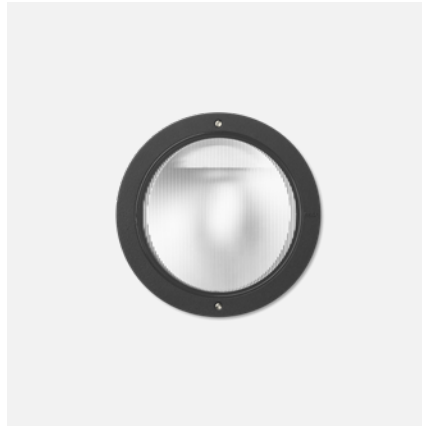
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BEGA

File: 24111K27_BEGA_IES.ies

TEST: BE_24111K4
TEST LAB: BEGA
DATE: 3/21/2016
LUMINAIRE: 24 111K27
LAMP: 8.9W LED



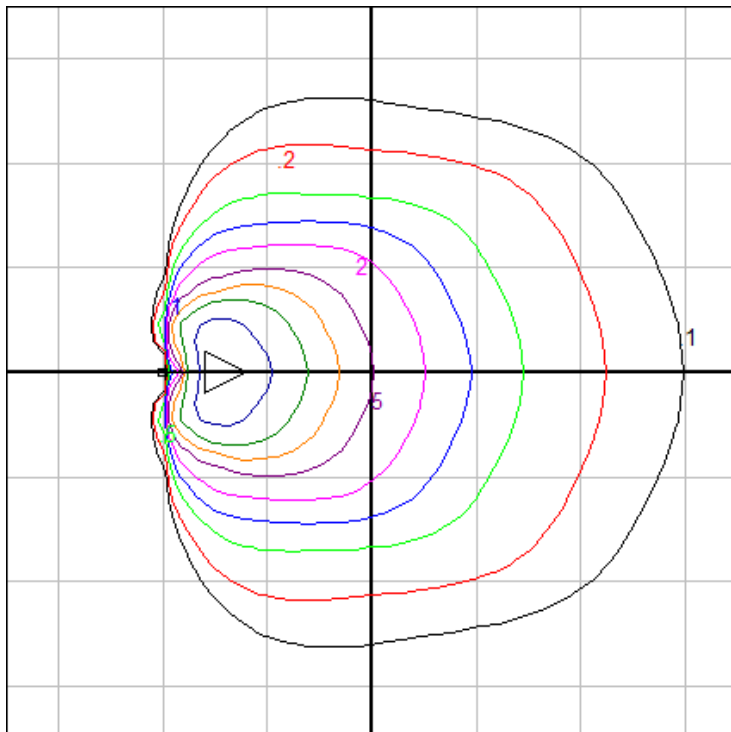
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	713
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	12
Ballast Factor	1.00
Upward Waste Light Ratio	0.08
Max. Cd.	963.05 (0H, 55V)
Max. Cd. (<90 Vert.)	963.05 (0H, 55V)
Max. Cd. (At 90 Deg. Vert.)	42.925 (6.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	227.035 (31.8%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	14.2	N.A.	2.0
FM (30-60)	382.5	N.A.	53.6
FH (60-80)	231.9	N.A.	32.5
FVH (80-90)	24.9	N.A.	3.5
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)	0.0	N.A.	0.0
UL (90-100)	11.6	N.A.	1.6
UH (100-180)	47.9	N.A.	6.7
Total	713.0	N.A.	100.0

BUG Rating B0-U2-G1

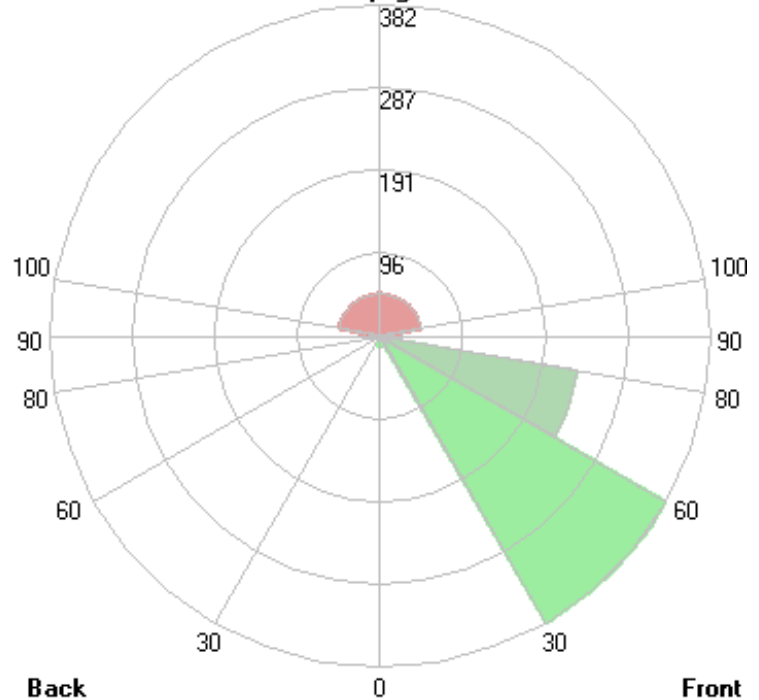


Mounting Height: 1.5 ft.

Grid Spacing: 2.5 ft.

Luminaire Lumens

Uplight



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