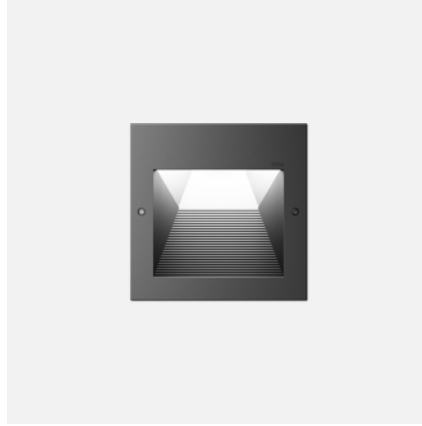


BEGA

File: 24210K4_BEGA_IES.ies

TEST: BE_24210K4
TEST LAB: BEGA
DATE: 3/31/2017
LUMINAIRE: 24 210K4
LAMP: 2.9W LED



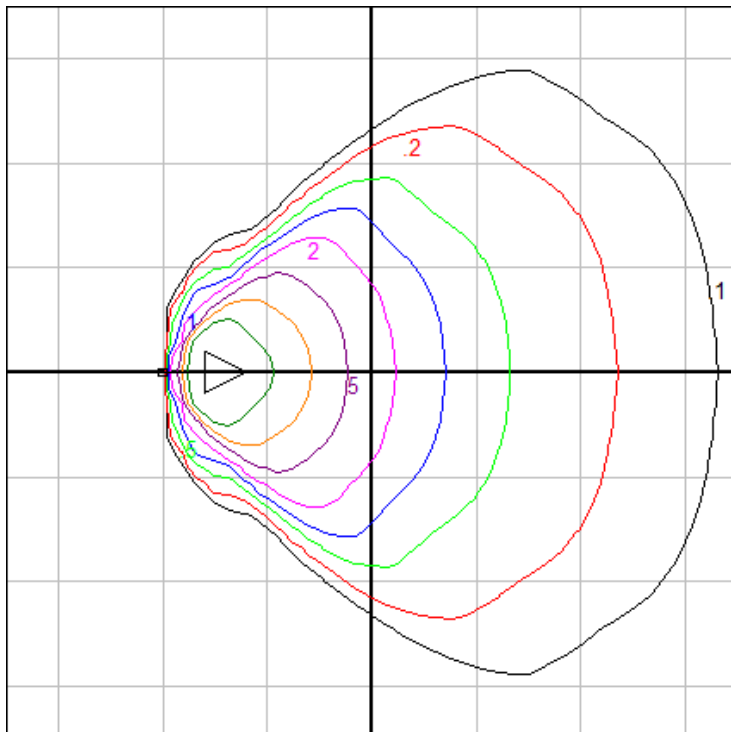
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	321
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	390.1 (0H, 65V)
Max. Cd. (<90 Vert.)	390.1 (0H, 65V)
Max. Cd. (At 90 Deg. Vert.)	28.9 (9.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	198.6 (61.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

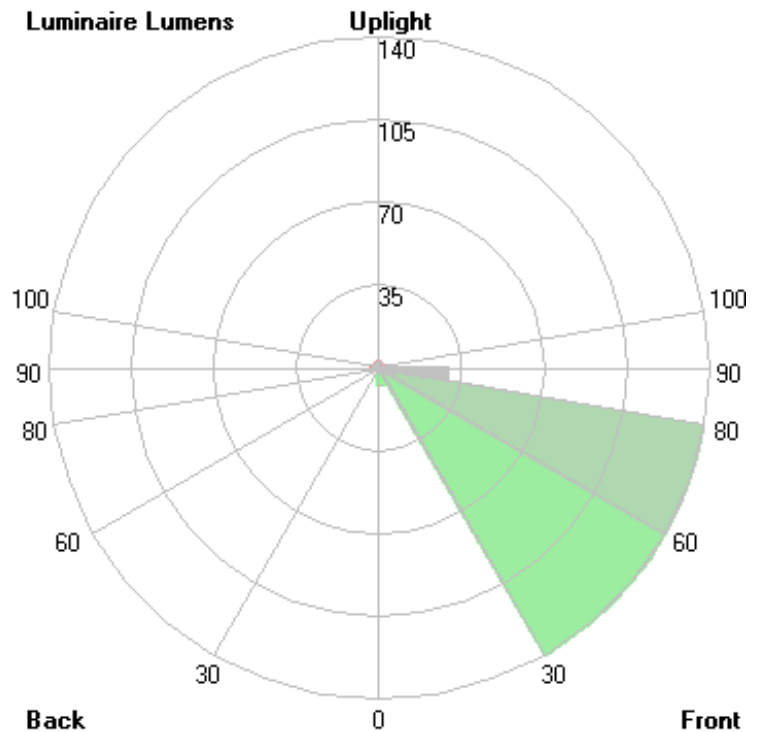
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	7.2	N.A.	2.3
FM (30-60)	139.7	N.A.	43.5
FH (60-80)	139.6	N.A.	43.5
FVH (80-90)	29.7	N.A.	9.3
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	2.7	N.A.	0.8
UH (100-180)	2.1	N.A.	0.6
Total	321.0	N.A.	100.0

BUG Rating B0-U1-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.

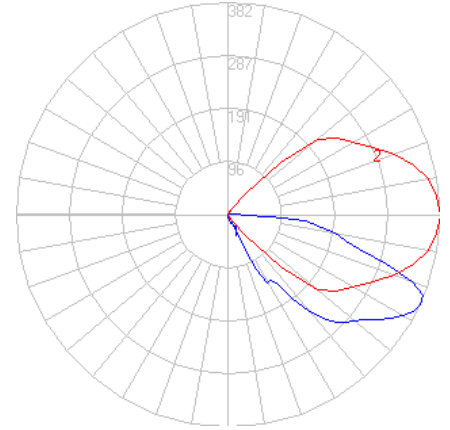
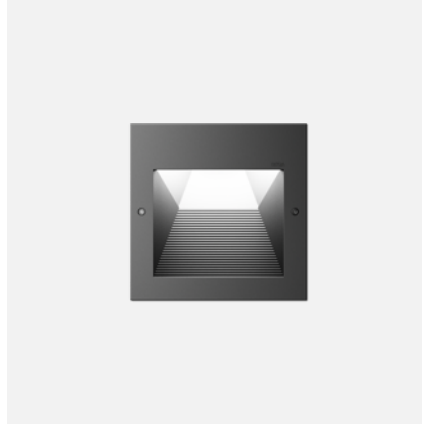
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BEGA

File: 24210K35_BEGA_IES.ies

TEST: BE_24210K4
TEST LAB: BEGA
DATE: 3/31/2017
LUMINAIRE: 24 210K35
LAMP: 2.9W LED



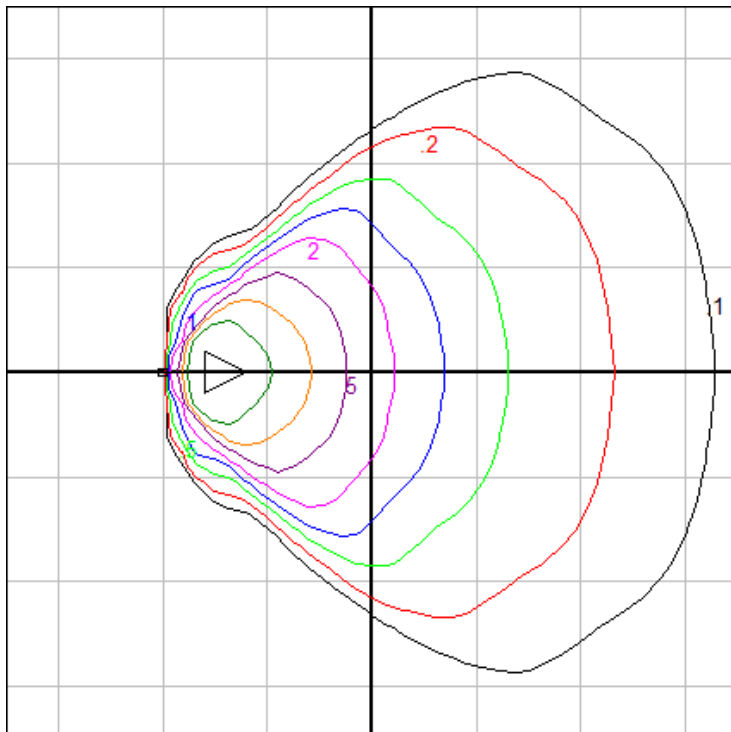
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	315
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	382.298 (0H, 65V)
Max. Cd. (<90 Vert.)	382.298 (0H, 65V)
Max. Cd. (At 90 Deg. Vert.)	28.322 (9.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	194.628 (61.8%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

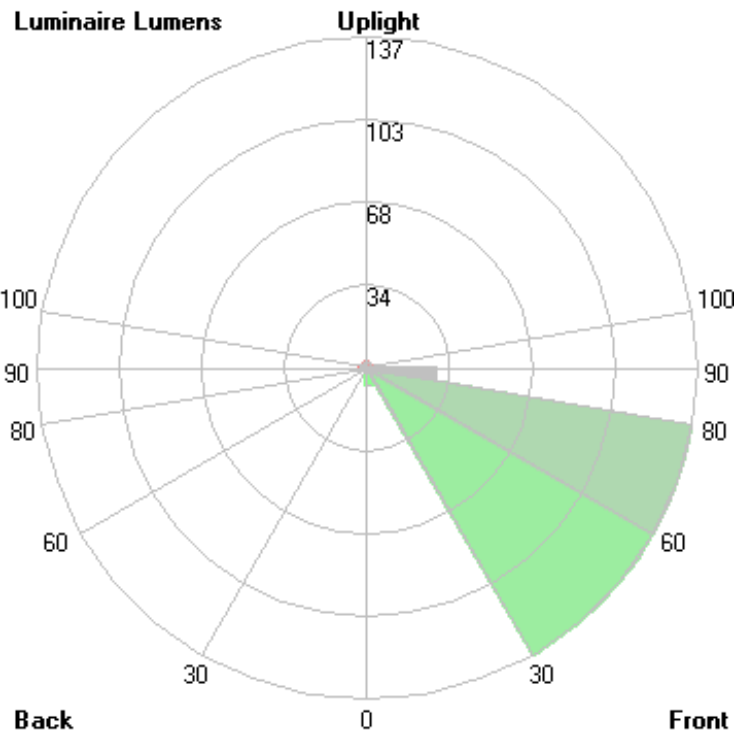
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	7.1	N.A.	2.3
FM (30-60)	136.9	N.A.	43.5
FH (60-80)	136.8	N.A.	43.5
FVH (80-90)	29.1	N.A.	9.3
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	2.6	N.A.	0.8
UH (100-180)	2.0	N.A.	0.6
Total	314.5	N.A.	100.0

BUG Rating B0-U1-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.

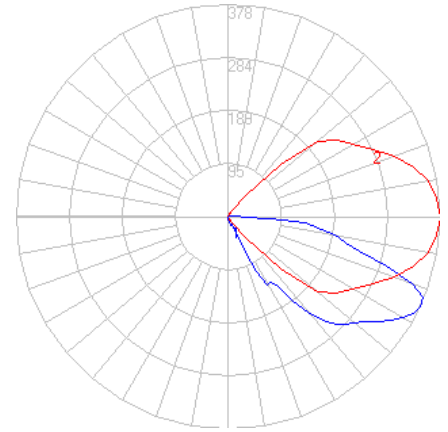
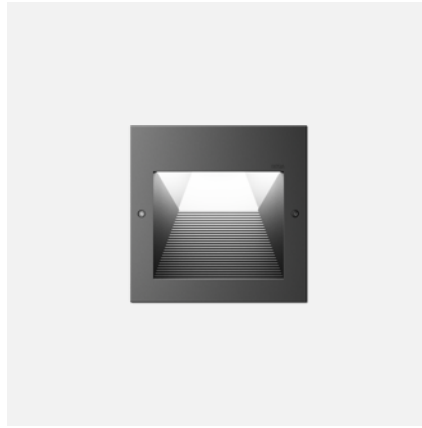
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BEGA

File: 24210K3_BEGA_IES.ies

TEST: BE_24210K4
TEST LAB: BEGA
DATE: 3/31/2017
LUMINAIRE: 24 210K3
LAMP: 2.9W LED



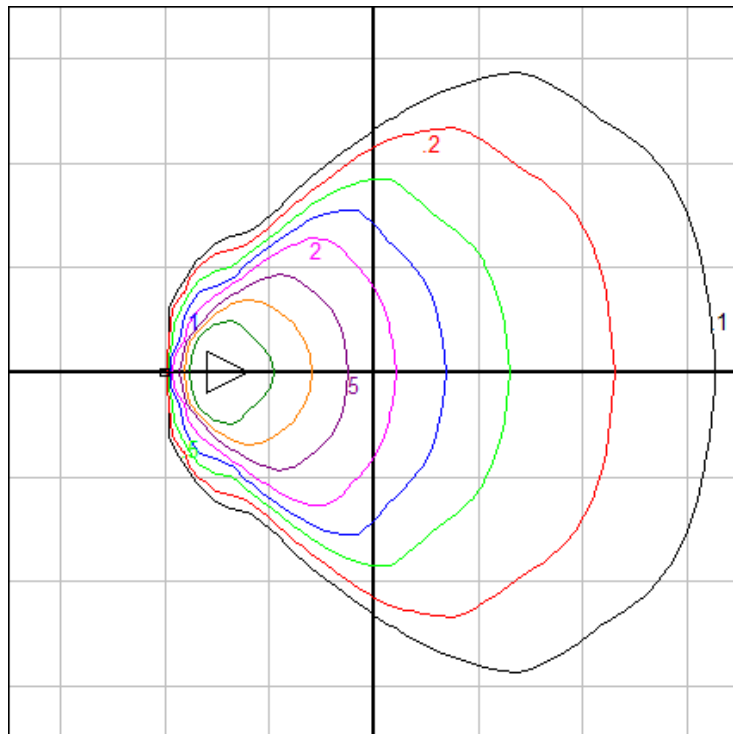
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	311
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	378.397 (0H, 65V)
Max. Cd. (<90 Vert.)	378.397 (0H, 65V)
Max. Cd. (At 90 Deg. Vert.)	28.033 (9.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	192.642 (61.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

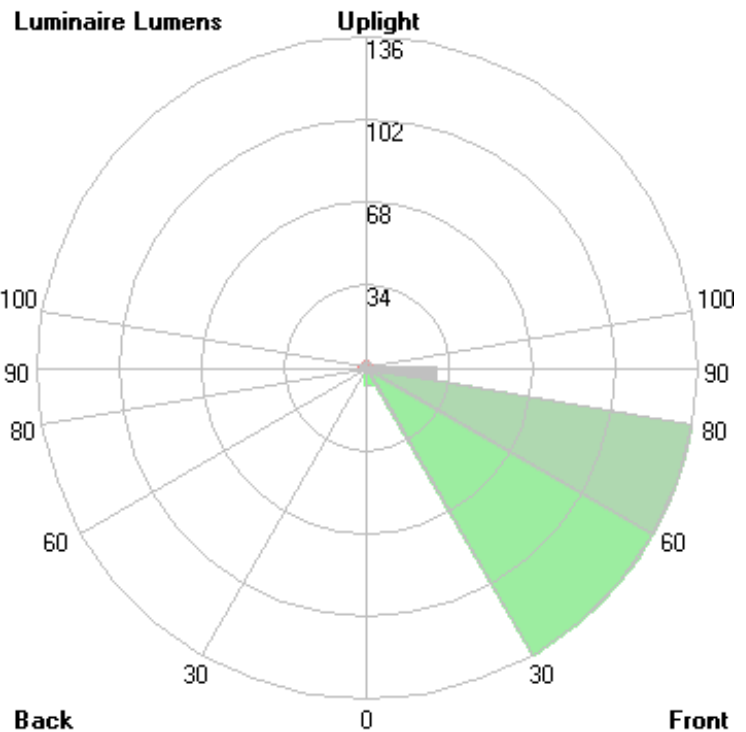
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	7.0	N.A.	2.3
FM (30-60)	135.5	N.A.	43.5
FH (60-80)	135.5	N.A.	43.5
FVH (80-90)	28.8	N.A.	9.3
BL (0-30)	0.0	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	2.6	N.A.	0.8
UH (100-180)	2.0	N.A.	0.6
Total	311.4	N.A.	100.0

BUG Rating B0-U1-G1



Mounting Height: 1.5 ft.

Grid Spacing: 2.5 ft.



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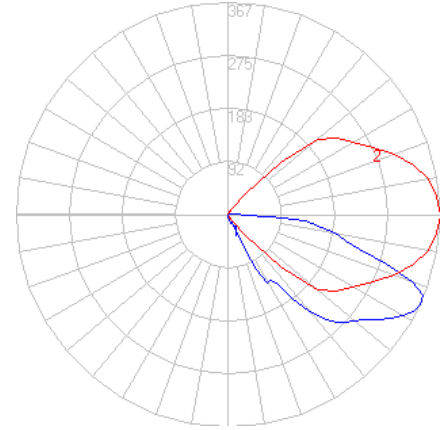
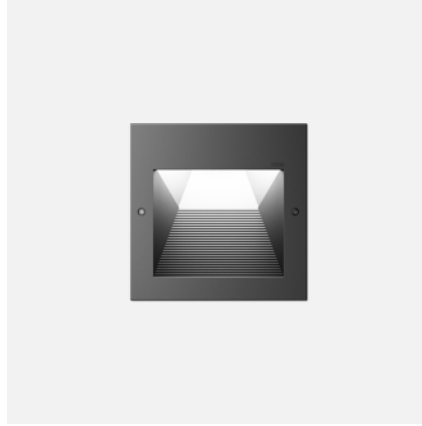
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BEGA

File: 24210K27_BEGA_IES.ies

TEST: BE_24210K4
TEST LAB: BEGA
DATE: 3/31/2017
LUMINAIRE: 24 210K27
LAMP: 2.9W LED



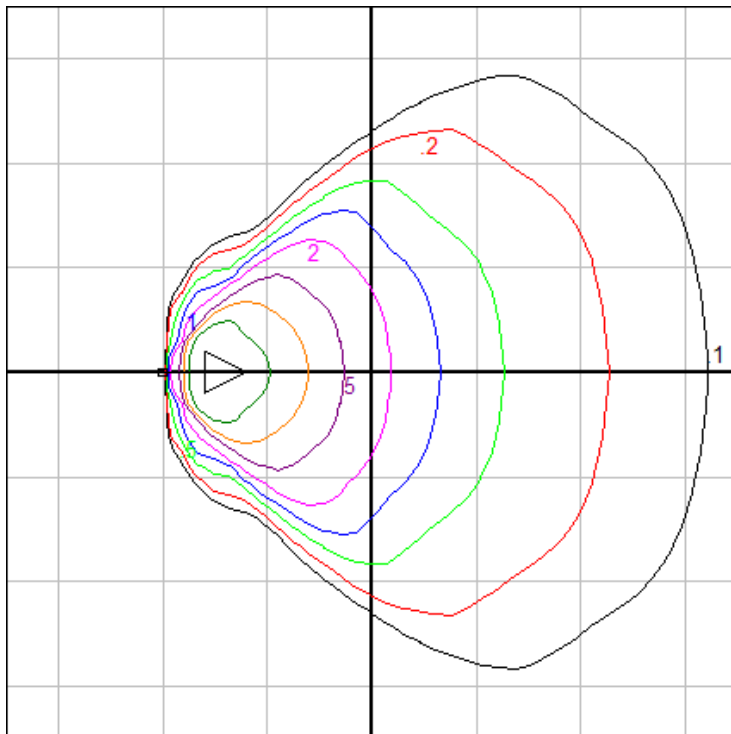
Characteristics

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	302
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	5
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Max. Cd.	366.694 (0H, 65V)
Max. Cd. (<90 Vert.)	366.694 (0H, 65V)
Max. Cd. (At 90 Deg. Vert.)	27.166 (9.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	186.684 (61.8%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	6.8	N.A.	2.3
FM (30-60)	131.3	N.A.	43.5
FH (60-80)	131.3	N.A.	43.5
FVH (80-90)	27.9	N.A.	9.3
BL (0-30)	0.0	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)	2.5	N.A.	0.8
UH (100-180)	1.9	N.A.	0.6
Total	301.7	N.A.	100.0

BUG Rating B0-U1-G1

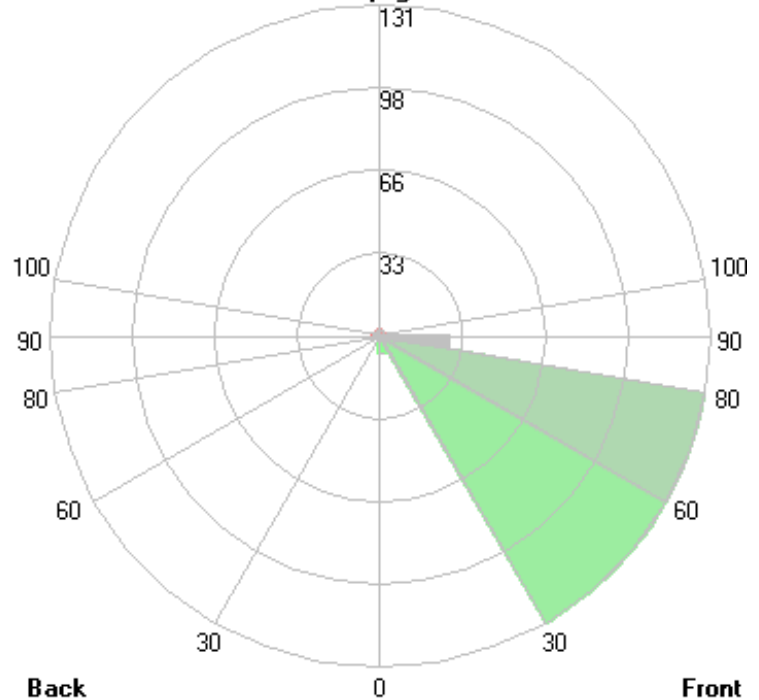


Mounting Height: 1.5 ft.

Grid Spacing: 2.5 ft.

Luminaire Lumens

Uplight



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