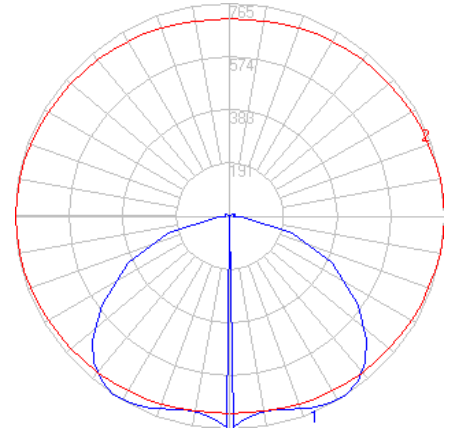
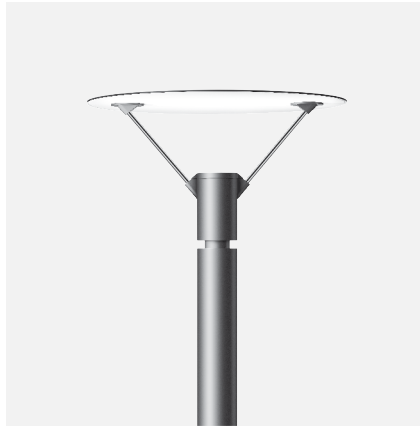


BEGA

Photometric Filename:

98019K4_BEGA_IES.ies

TEST: L122012402
TEST LAB: LIGHT LABORATORY INC.
DATE: 1/6/2021
LUMINAIRE: 98 019K4
LAMP: 35.7W LED



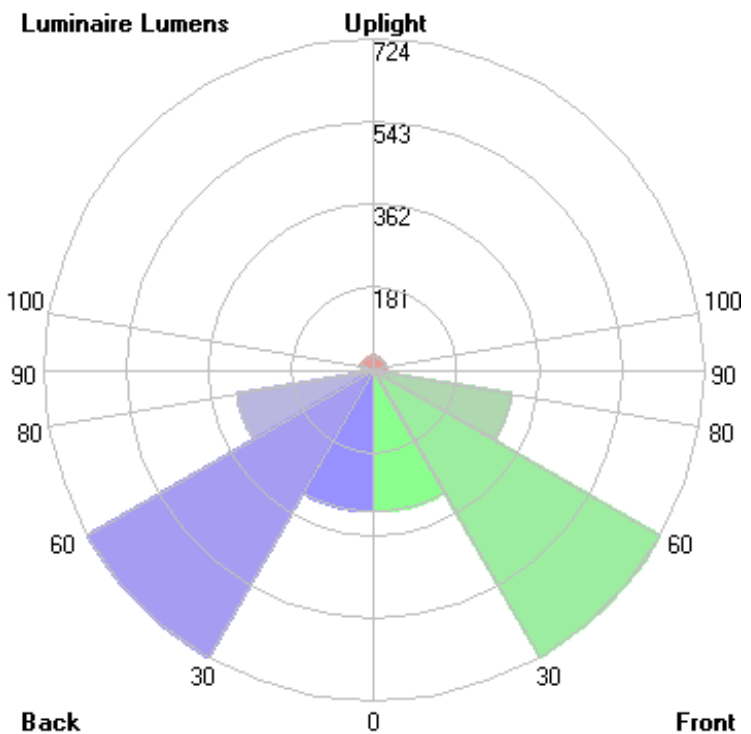
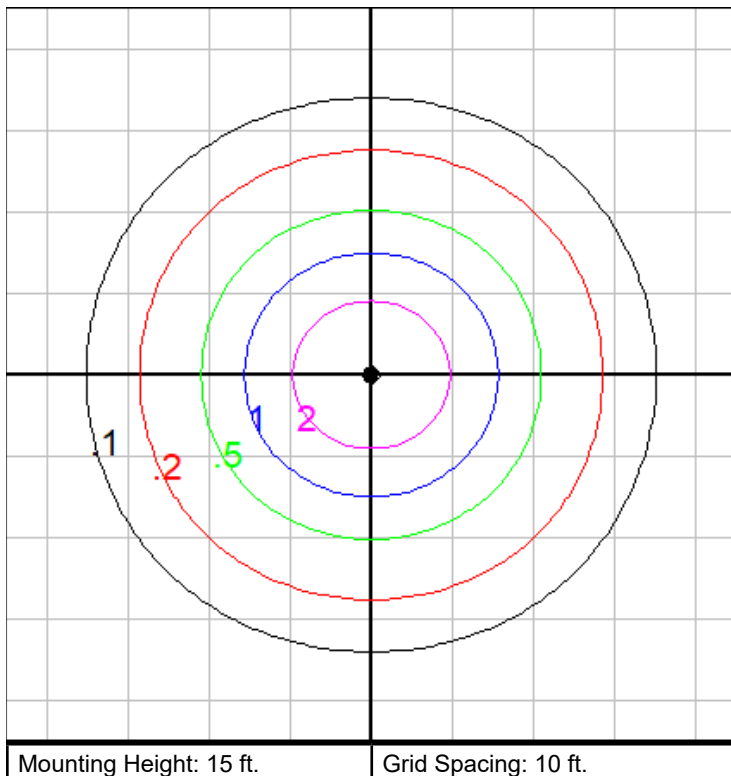
Characteristics

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2776
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	39.66
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Max. Cd.	765.256 (0H, 33V)
Max. Cd. (<90 Vert.)	765.256 (0H, 33V)
Max. Cd. (At 90 Deg. Vert.)	15.048 (0.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	137.311 (4.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	308.2	N.A.	11.1
FM (30-60)	723.7	N.A.	26.1
FH (60-80)	305.1	N.A.	11.0
FVH (80-90)	29.0	N.A.	1.0
BL (0-30)	308.2	N.A.	11.1
BM (30-60)	723.7	N.A.	26.1
BH (60-80)	305.1	N.A.	11.0
BVH (80-90)	29.0	N.A.	1.0
UL (90-100)	14.5	N.A.	0.5
UH (100-180)	28.1	N.A.	1.0
Total	2774.6	N.A.	100.0

BUG Rating B1-U2-G1



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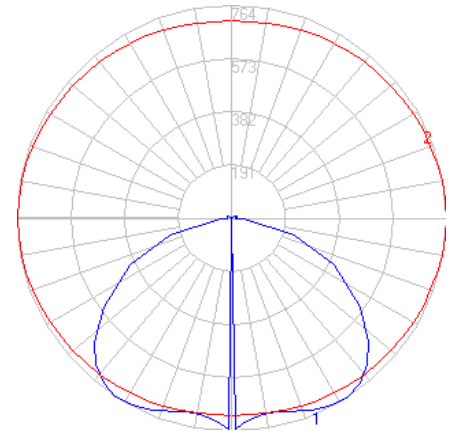
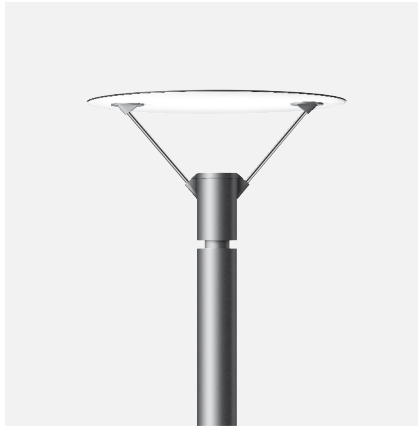
03/30/21

BEGA

Photometric Filename:

98019K35_BEGA_IES.ies

TEST: L122012402
 TEST LAB: LIGHT LABORATORY INC.
 DATE: 1/6/2021
 LUMINAIRE: 98 019K35
 LAMP: 35.7W LED



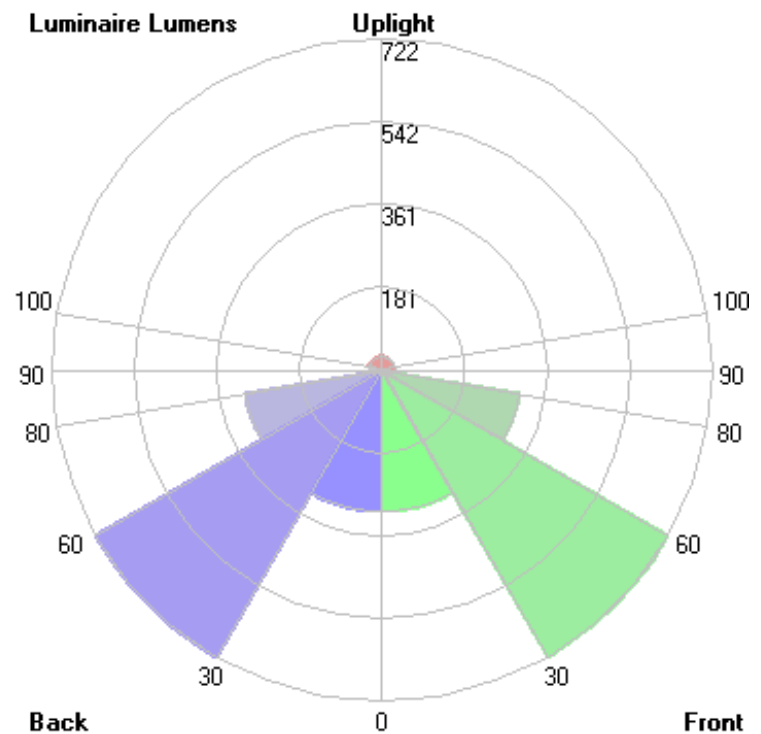
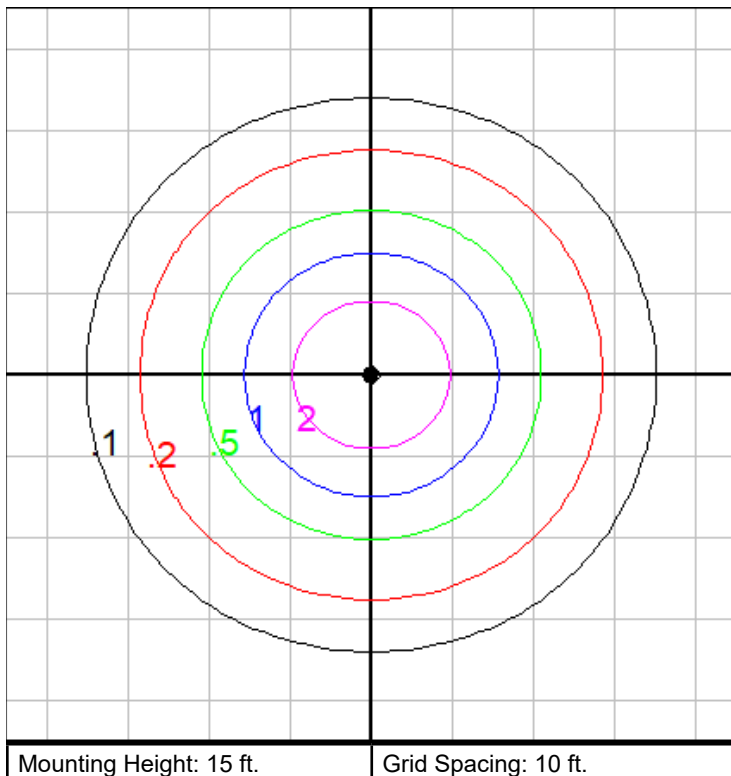
Characteristics

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2771
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	39.66
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Max. Cd.	763.746 (0H, 33V)
Max. Cd. (<90 Vert.)	763.746 (0H, 33V)
Max. Cd. (At 90 Deg. Vert.)	15.018 (0.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	137.04 (4.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	307.6	N.A.	11.1
FM (30-60)	722.3	N.A.	26.1
FH (60-80)	304.5	N.A.	11.0
FVH(80-90)	29.0	N.A.	1.0
BL (0-30)	307.6	N.A.	11.1
BM (30-60)	722.3	N.A.	26.1
BH (60-80)	304.5	N.A.	11.0
BVH(80-90)	29.0	N.A.	1.0
UL (90-100)	14.5	N.A.	0.5
UH (100-180)	28.1	N.A.	1.0
Total	2769.4	N.A.	100.0

BUG Rating B1-U2-G1



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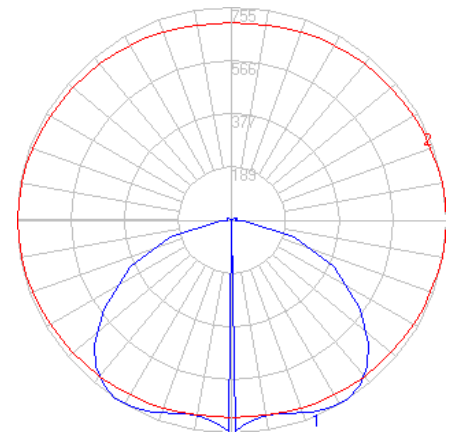
03/30/21

BEGA

Photometric Filename:

98019K3_BEGA_IES.ies

TEST: L122012402
TEST LAB: LIGHT LABORATORY INC.
DATE: 1/6/2021
LUMINAIRE: 98 019K3
LAMP: 35.7W LED



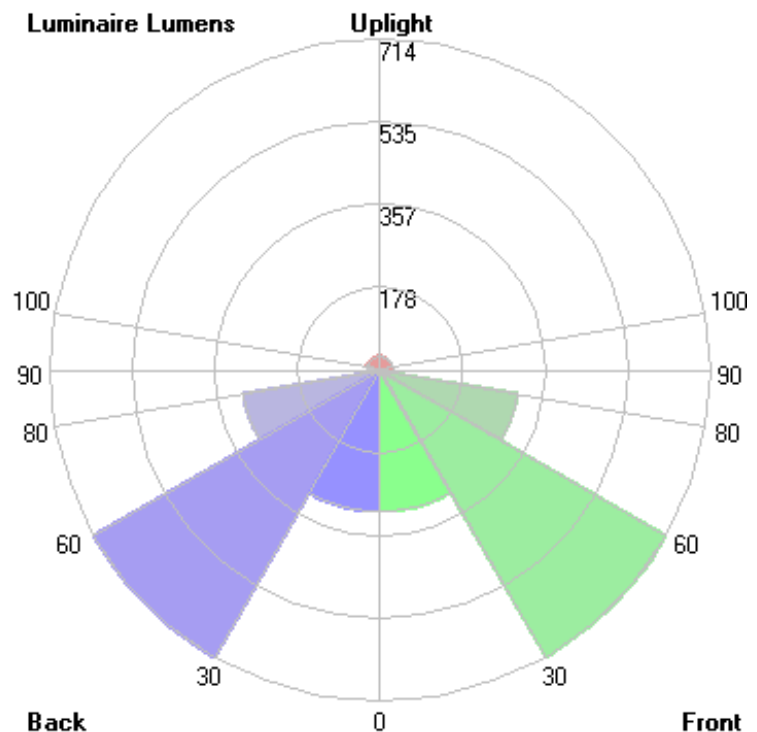
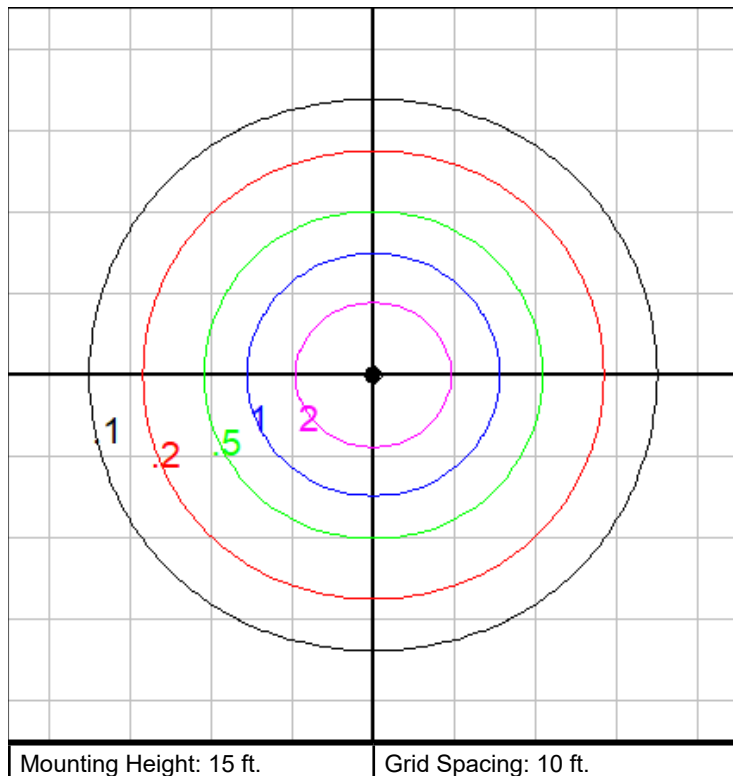
Characteristics

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2738
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	39.66
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Max. Cd.	754.69 (0H, 33V)
Max. Cd. (<90 Vert.)	754.69 (0H, 33V)
Max. Cd. (At 90 Deg. Vert.)	14.84 (0.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	135.415 (4.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	303.9	N.A.	11.1
FM (30-60)	713.8	N.A.	26.1
FH (60-80)	300.9	N.A.	11.0
FVH(80-90)	28.6	N.A.	1.0
BL (0-30)	303.9	N.A.	11.1
BM (30-60)	713.8	N.A.	26.1
BH (60-80)	300.9	N.A.	11.0
BVH(80-90)	28.6	N.A.	1.0
UL (90-100)	14.3	N.A.	0.5
UH (100-180)	27.7	N.A.	1.0
Total	2736.4	N.A.	100.0

BUG Rating B1-U2-G1



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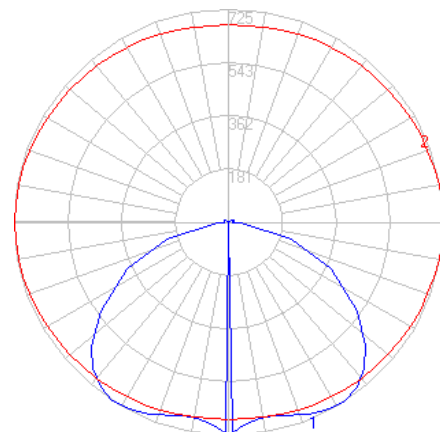
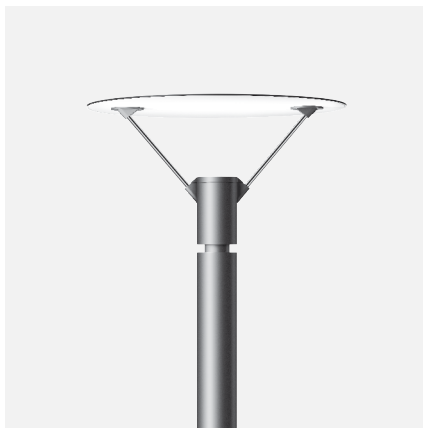
03/30/21

BEGA

Photometric Filename:

98019K27_BEGA_IES.ies

TEST: L122012402
 TEST LAB: LIGHT LABORATORY INC.
 DATE: 1/6/2021
 LUMINAIRE: 98 019K27
 LAMP: 35.7W LED



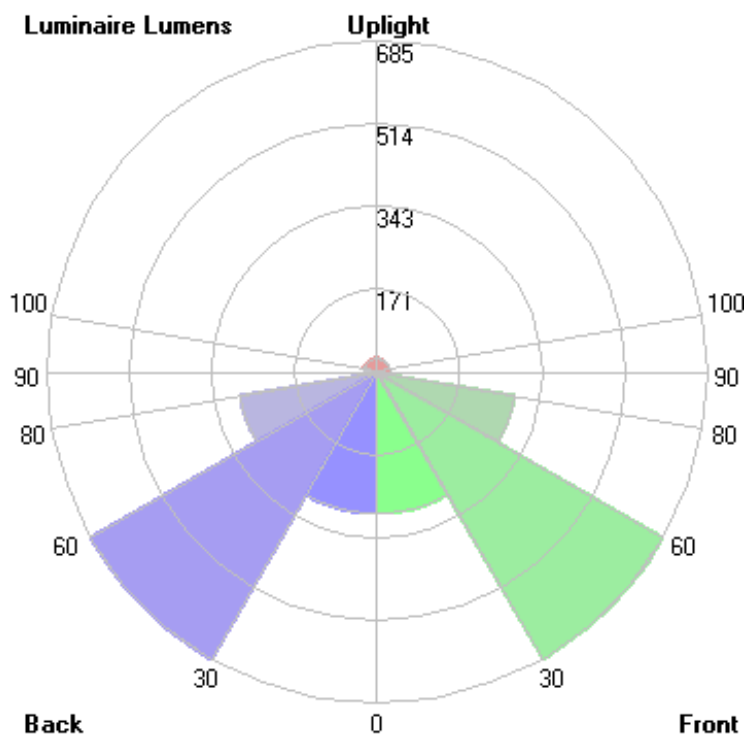
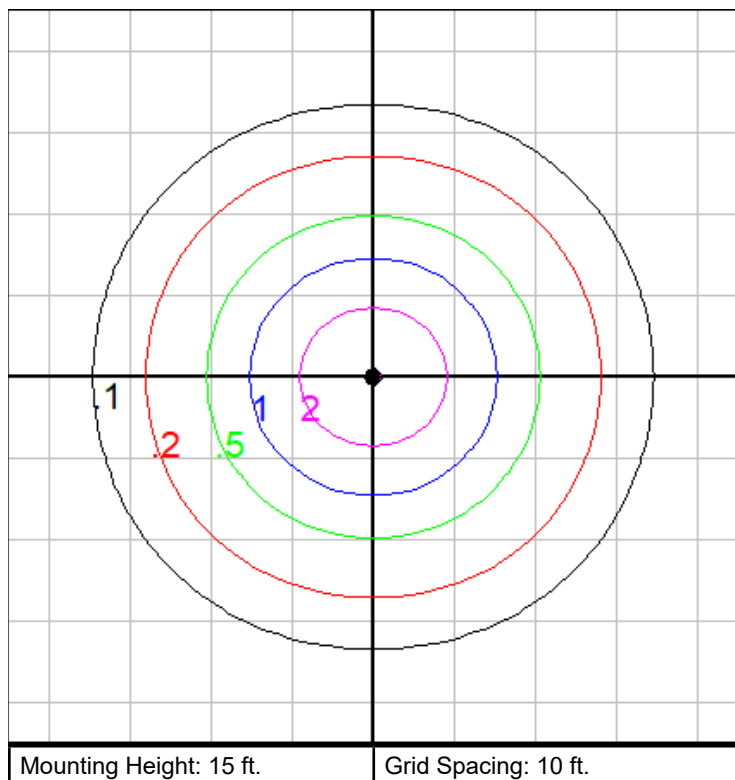
Characteristics

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2628
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	39.66
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Max. Cd.	724.502 (0H, 33V)
Max. Cd. (<90 Vert.)	724.502 (0H, 33V)
Max. Cd. (At 90 Deg. Vert.)	14.246 (0.5%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	129.999 (4.9%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	291.8	N.A.	11.1
FM (30-60)	685.2	N.A.	26.1
FH (60-80)	288.9	N.A.	11.0
FVH(80-90)	27.5	N.A.	1.0
BL (0-30)	291.8	N.A.	11.1
BM (30-60)	685.2	N.A.	26.1
BH (60-80)	288.9	N.A.	11.0
BVH(80-90)	27.5	N.A.	1.0
UL (90-100)	13.8	N.A.	0.5
UH (100-180)	26.6	N.A.	1.0
Total	2627.2	N.A.	100.0

BUG Rating B1-U2-G1



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