Part #	**Prepared By**
Project	**Notes**
Type	
Date	

CLASS



6" C-Class, LED Downlight

Lensed Round, 700-3000 lumens

Description

C-Class small-aperture downlights provide efficient performance and a modern aesthetic at a value. New Construction, IC-Rated and Remodeler housing options available. Lensed C-Class downlights have a frosted polycarbonate lenses for additional protection.

Features & Construction

ELECTRICAL SYSTEM

- 700 - 3000 lumens
- 2700K - 4000K CCT
- 80 CRI with 3 SDCM color consistency (+90 CRI optional)
- Standard 0-10V 10% dimming driver; optional drivers available
- 120 - 277V
- Minimum 50,000 hour lifetime at L70
- -20°C to 30°C Ambient Operating Temperature Range

OPTICS

- Narrow, Medium & Wide distributions
- Frosted Polycarbonate Flush lens

FRAME & MOUNTING

- Stainless steel spring torsion retaining ears
- Advanced Quick Connect for easy insallation
- Driver/junction box listed for through branch wiring
- Optional New Construction Frame with T-Bars
- Optional IC-Rated Frame with T-Bars

Listings

- ETL certified to UL 1598 and UL8750 requirements
- Tested according to LM-79 and LM-80 standards
- Suitable for damp locations; Wet location under covered ceiling
- Buy American Act

Warranty & Notes

- 5-year limited warranty on LED module and driver
- www.vantageltg.com/product-warranty
- Photometric tests peformed by an accredited NVLP facility and in accordance to IESNA LM-79-2008 testing procedures
- Insulation cannot be in contact with non-IC versions.

Lumens

Nominal Lumens	Delivered Lumens	Wattage	Wattage
700	637	7.7	82.73
1300	1184	14.3	82.80
2000	1821	22.2	82.03
3000	2731	30.8	88.67

All measured at 3500K with a standard medium distribution
*Actual Wattage/Lumens may vary.

Ordering Information

EXAMPLE: A6VECLEDU-0735K-C601-SGC-MD-WHT-NCFAQ-HCR

Series	Voltage	Lumens	Kelvin (CCT)	Reflector	Reflector Finish	Distribution	Flange Finish	Frame	Options*
A6VECLED	**1** - 120V **2** - 277V **3** - 347V* *Step-down transformer	**07** - 700 **13** - 1300 **20** - 2000 **30** - 3000	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K	**C601** Frosted Flush Polycarbonate Lens *All trims supplied standard with white painted flange.	**SGC** Soft Glow Clear	**NW** - Narrow 25° **MD** - Medium 36° **WE** - Wide 48°	**WHT** White Matte **BLK** Black	**NCFAQ** New Construction Frame w/ Advanced Quick-Connect **NCFIC** New Construction Frame w/ IC Box **RMDL** Remodeler	**EM** **HCR** **TDM** **XDM** **ZDM** **DL-2** **LDE1** **LDE5** **PEQ0**

*Options Notes

EM - Remote Emergency Battery Back-Up
HCR - High CRI, 90+
TDM - Triac (Foward-Phase) Dimming
XDM - 0-10V 0.1% Dimming
ZDM - 0-10V 1% Dimming
DL-2 - Lutron 2-Wire Hi-Lume Dimming
LDE1 - Lutron EcoSystem Digital Fade-to-Black 1% Dimming
LDE5 - Lutron 5-Series EcoSystem 5% Dimming
PEQ0 - Lutron EcoSystem Fade-to-Black 0.1% Dimming



Narrow - NW



Medium - NW
Wide - WE

Vantage reserves the right to change components, finishes or design details in any manner which does not alter the installed appearance or reduce performance and intended function.

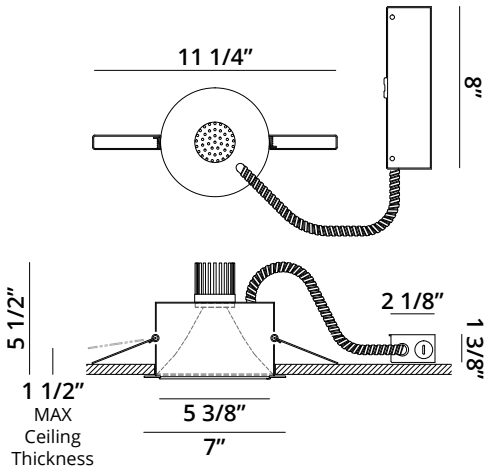
6″ C-Class, LED Downlight

Lensed Round, 700-3000 lumens

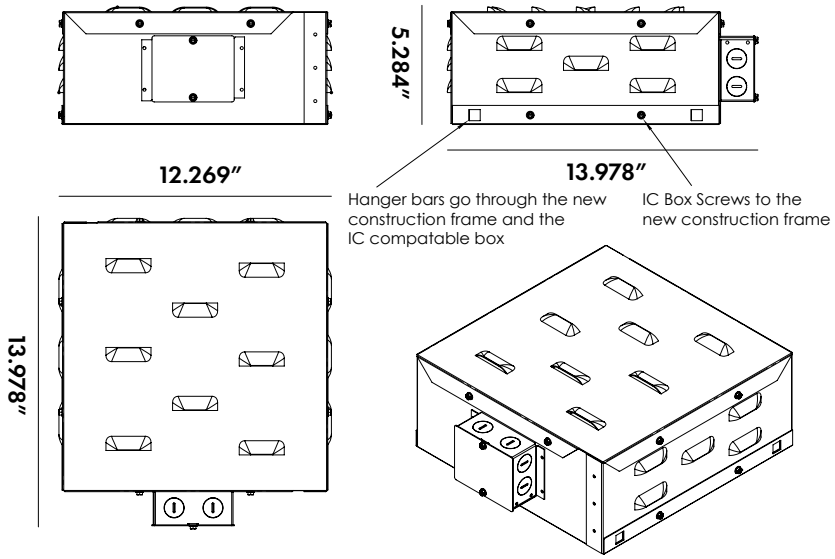
Dimensional Data

RMDL
(standard)

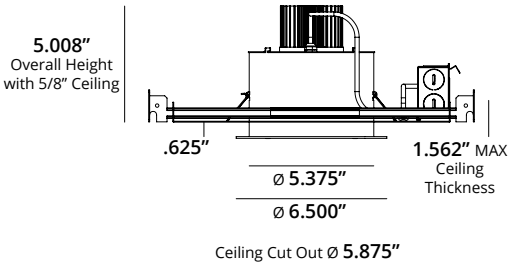
Ceiling Cut Out 5 1/2″



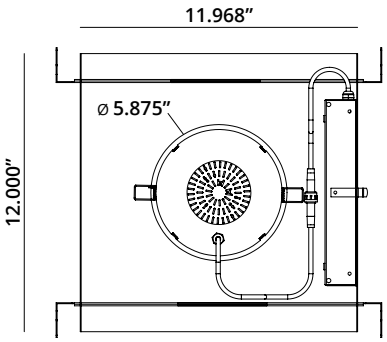
NCFIC
(IC-RATED)



NCFAQ
(new construction frame)



Ceiling Cut Out Ø 5.875″



RMDL
(standard)



NCFAQ
(new construction frame)



*New construction frame
sold seperately

NCFIC
(IC-RATED)



*IC-RATED box
sold seperately

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6" C-Class, LED Downlight

Lensed Round, 700-3000 lumens

Photometry

NARROW - NW 25° 1330K

Model
A6VECLED1-N-1330K

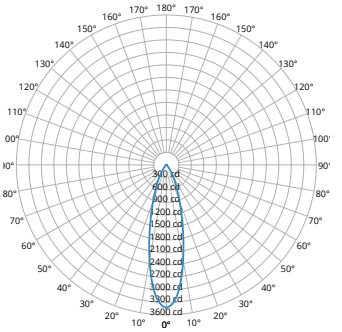
Lumens
1,140

Watts
13.8

Efficacy
82.61

SC
0.45

Candela Curve



Cone of Light

Mounting Height AFF	FC at Center on Floor	Beam Diameter
8.0 '	54 fc	3.9 '
10.0 '	34 fc	4.9 '
12.0 '	24 fc	5.8 '
14.0 '	17 fc	6.8 '
16.0 '	13 fc	7.8 '
20.0 '	9 fc	9.7 '
24.0 '	6 fc	11.7 '
30.0 '	4 fc	14.6 '

Candela Table

	0.00°
0.00°	3,428
5.00°	3,108
10.00°	2,321
15.00°	1,511
20.00°	925
30.00°	333
40.00°	93
50.00°	28
60.00°	11
70.00°	4
80.00°	0
90.00°	0

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0° - 30°	957	84%
0° - 40°	1,074	94%
0° - 60°	1,132	99%
60° - 90°	9	1%
0° - 20°	693	61%
20° - 50°	423	37%
50° - 70°	23	2%
70° - 90°	2	0%
0° - 90°	1,140	100%
90° - 180°	0	0%
Total	1,140	100%

Spacing Criterion

Height	Spacing	Light Level*
8 ft	3.6 ft	~ 54 fc
10 ft	4.5 ft	~ 34 fc
12 ft	5.4 ft	~ 24 fc
8 ft	2.7 ft	~ 95 fc
10 ft	3.4 ft	~ 61 fc
12 ft	4.1 ft	~ 42 fc
8 ft	1.8 ft	~ 214 fc
10 ft	2.3 ft	~ 137 fc
12 ft	2.7 ft	~ 95 fc

* approximate direct light level at floor based on spacing criterion overlap

MEDIUM - MD 36° 1330K

Model
A6VECLED1-M-1330K

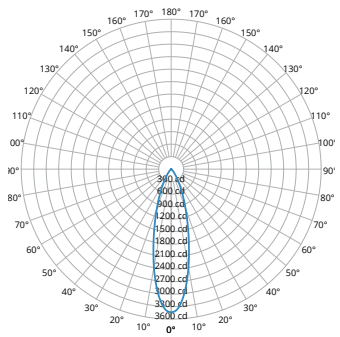
Lumens
1,184

Watts
14.3

Efficacy
82.80

SC
0.46

Candela Curve



Cone of Light

Mounting Height AFF	FC at Center on Floor	Beam Diameter
8.0 '	54 fc	4.0 '
10.0 '	34 fc	5.0 '
12.0 '	24 fc	6.0 '
14.0 '	18 fc	7.0 '
16.0 '	13 fc	8.1 '
20.0 '	9 fc	10.1 '
24.0 '	6 fc	12.1 '
30.0 '	4 fc	15.1 '

Candela Table

	0.00°
0.00°	3,440
5.00°	3,130
10.00°	2,389
15.00°	1,600
20.00°	1,006
30.00°	348
40.00°	96
50.00°	30
60.00°	11
70.00°	4
80.00°	0
90.00°	0

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0° - 30°	994	84%
0° - 40°	1,115	94%
0° - 60°	1,174	99%
60° - 90°	9	1%
0° - 20°	713	60%
20° - 50°	444	38%
50° - 70°	24	2%
70° - 90°	2	0%
0° - 90°	1,184	100%
90° - 180°	0	0%
Total	1,184	100%

Spacing Criterion

Height	Spacing	Light Level*
8 ft	3.7 ft	~ 54 fc
10 ft	4.6 ft	~ 34 fc
12 ft	5.5 ft	~ 24 fc
8 ft	2.8 ft	~ 96 fc
10 ft	3.5 ft	~ 61 fc
12 ft	4.1 ft	~ 42 fc
8 ft	1.8 ft	~ 215 fc
10 ft	2.3 ft	~ 138 fc
12 ft	2.8 ft	~ 96 fc

* approximate direct light level at floor based on spacing criterion overlap

WIDE - WE 48° 1330K

Model
A6VECLED1-W-1330K

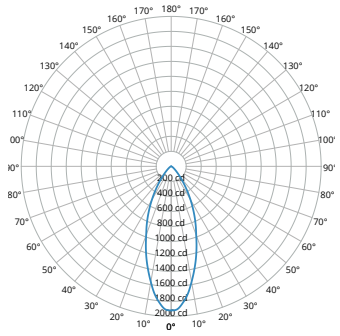
Lumens
1,162

Watts
13.5

Efficacy
86.07

SC
0.63

Candela Curve



Cone of Light

Mounting Height AFF	FC at Center on Floor	Beam Diameter
8.0 '	30 fc	5.9 '
10.0 '	19 fc	7.3 '
12.0 '	13 fc	8.8 '
14.0 '	10 fc	10.3 '
16.0 '	8 fc	11.7 '
20.0 '	5 fc	14.6 '
24.0 '	3 fc	17.6 '
30.0 '	2 fc	22.0 '

Candela Table

	0.00°
0.00°	1,922
5.00°	1,822
10.00°	1,565
15.00°	1,274
20.00°	976
30.00°	515
40.00°	188
50.00°	59
60.00°	23
70.00°	9
80.00°	0
90.00°	0

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0° - 30°	832	72%
0° - 40°	1,029	89%
0° - 60°	1,142	98%
60° - 90°	19	2%
0° - 20°	508	44%
20° - 50°	602	52%
50° - 70°	47	4%
70° - 90°	5	0%
0° - 90°	1,162	100%
90° - 180°	0	0%
Total	1,162	100%

Spacing Criterion

Height	Spacing	Light Level*
8 ft	5.0 ft	~ 30 fc
10 ft	6.3 ft	~ 19 fc
12 ft	7.6 ft	~ 13 fc
8 ft	3.8 ft	~ 53 fc
10 ft	4.7 ft	~ 34 fc
12 ft	5.7 ft	~ 24 fc
8 ft	2.5 ft	~ 120 fc
10 ft	3.1 ft	~ 77 fc
12 ft	3.8 ft	~ 53 fc

* approximate direct light level at floor based on spacing criterion overlap

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