

Part #	Prepared By
Project	Date
Type	

6" Round, F-Class HiLumen Retrofit

Open, LED Downlight, 4000-8000 Lumens - HiLumen Shallow



Features & Construction

ELECTRICAL SYSTEM

- 4000 - 8000 lumens
- Efficient LED system up to 108 LPW Lumens Per Watt
- 3000K - 5000K CCT
- 80 CRI with 3 SDCM color consistency, 90+ CRI option
- 0-10V 10% dimming standard
- 120V - 277V Universal Input Volts, 347V option
- Minimum 50,000 hour lifetime at L70
- -20°C to 30°C Ambient Operating Temperature Range

OPTICS

- Precision spun architectural-grade reflector
- Reflectors available in Alzak® and painted finishes
- Distribution is free of streaks, striations and hotspots
- 60° Medium Distribution or 80° Wide Distribution
- 45° Cutoff

FRAME & MOUNTING

- Powder coated steel frame with integrated junction box featuring hinged access covers with spring retaining latches
- Supports straight conduit runs - (4) 1/2" knockouts
- Through branch wiring - (8) #12 AWG (4 in, 4 out), 90°C conductors
- Accessibility to all LED components from below ceiling
- Flush to the ceiling reflectors, secured by high quality friction clips

Listings

- ETL certified to UL 1598 and UL8750 requirements
- Tested according to LM-79 and LM-80 standards
- Damp Location and Wet Location Under Covered Ceiling (per NEC 410 & UL 1598)
- Buy American Act (BAA Compliant)
- Flicker Free (per NEMA 77-2017)

Warranty & Notes

- 5-year limited warranty on LED module and driver
- www.vantageltg.com/product-warranty
- Photometric tests performed by an accredited NVLP facility and in accordance to IESNA LM-79-2008 testing procedures
- Insulation must be kept 3" away from luminaire

Lumens*

Nominal Lumens	Wattage	Medium Delivered Lumens	Lumens Per Watt	Wide Delivered Lumens	Lumens Per Watt
4000	36.4	3718	102.14	3725	102.34
5000	44.8	4648	103.75	4656	103.93
6000	53.2	5577	104.83	5587	105.02
8000	71.1	7436	104.59	7449	104.77

All measured at 4000K with a standard medium & wide distribution

*Actual Wattage/Lumens may vary.

Ordering Information

EXAMPLE: RET/REMA6VOFHLU-8040K-L6060-SGC-SDM

Series	Voltage	Lumens	Kelvin (CCT)	Reflector	Reflector Finish	Dimming Options*	Additional Options**
RET/REMA6VOFHL	U - 120V-277V 3 - 347V (347V Step Down Transformer) *Must provide voltage when optional drivers are selected.	40 - 4000 50 - 5000 60 - 6000 80 - 8000	30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K	M6060 60° Medium Open Reflector W6060 80° Wide Open Reflector	SCL Specular Clear SGC Soft Glow Clear WHT White Matte *All trims supplied standard with white painted flange.	SDM (standard) ZDMHL TDMHL DMX DCA	HCR EMI17 EMI17 EMI20 EMI20 PF

* Dimming Options Notes

SDM - 0-10V 10% dimming driver. (standard)
ZDMHL - 0-10V 1% dimming driver (up to 10000 Lumens)
TDMHL - Triac (Forward Phase, 120V only) dimming driver. (up to 12000 lumens)
DMX - DMX with RDM dimming driver. Available up to 10,000 lumens.
DCA - Daisy Chain Adapter (must be used when daisy chaining DMX fixtures)

** Additional Options Notes

HCR - High CRI, 90+ minimum.
EMI17 - Battery Backup W/remote Test Button & Indicator Light (for up to 5000 Lumen Luminaires)
EMI17 - Battery Backup W/integral Test Button & Indicator Light (for up to 5000 Lumen Luminaires)
EMI20 - Battery Backup W/remote Test Button & Indicator Light (for Greater Than 5000 Lumen Luminaires)
EMI20 - Battery Backup W/integral Test Button & Indicator Light (for Greater Than 5000 Lumen Luminaires)
PF - Polished Flange

Reflector Finishes



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Photometry

M6060 - 60° Medium Distribution

Model
AGVOFHL-8040K-M6060-SCL

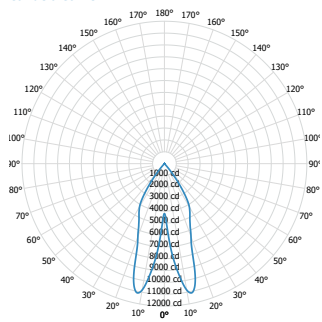
Lumens
7436

Watts
71.1

Efficacy
104.59

SC
1.26

Candela Curve



Cone of Light

Mounting Height AFF	FC at Center on Floor	Beam Diameter
8.0 ft	66 fc	6.8 ft
10.0 ft	42 fc	8.4 ft
12.0 ft	29 fc	10.1 ft
14.0 ft	22 fc	11.8 ft
16.0 ft	16 fc	13.5 ft
20.0 ft	11 fc	16.9 ft
24.0 ft	7 fc	20.3 ft
30.0 ft	5 fc	25.3 ft

Candela Table

	0.00°
0.00°	4223
5.00°	7750
10.00°	10811
15.00°	10037
20.00°	6543
30.00°	4185
40.00°	651
50.00°	40
60.00°	19
70.00°	9
80.00°	3
90.00°	0

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0° - 30°	5792	78%
0° - 40°	7282	98%
0° - 60°	7416	100%
60° - 90°	20	0%
0° - 20°	3428	46%
20° - 50°	3963	53%
50° - 70°	38	1%
70° - 90°	7	0%
0° - 90°	7436	100%
90° - 180°	0	0%
Total	7436	100%

Spacing Criterion

Height	Spacing	Light Level*
8 ft	10.1 ft	~ 66 fc
10 ft	12.6 ft	~ 42 fc
12 ft	15.1 ft	~ 29 fc
8 ft	7.6 ft	~ 117 fc
10 ft	9.4 ft	~ 75 fc
12 ft	11.3 ft	~ 52 fc
8 ft	5.0 ft	~ 264 fc
10 ft	6.3 ft	~ 169 fc
12 ft	7.6 ft	~ 117 fc

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

W6060 - 80° Wide Distribution

Model
AGVOFHL-12040K-W6060-SCL

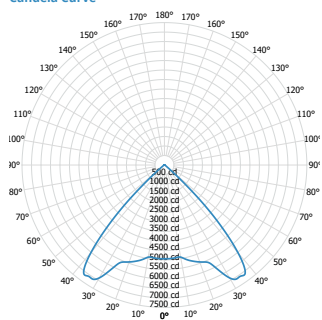
Lumens
11587

Watts
107

Efficacy
108.29

SC
1.71

Candela Curve



Cone of Light

Mounting Height AFF	FC at Center on Floor	Beam Diameter
8.0 ft	77 fc	15.5 ft
10.0 ft	49 fc	19.4 ft
12.0 ft	34 fc	23.2 ft
14.0 ft	25 fc	27.1 ft
16.0 ft	19 fc	31.0 ft
20.0 ft	12 fc	38.7 ft
24.0 ft	9 fc	46.5 ft
30.0 ft	5 fc	58.1 ft

Candela Table

	0.00°
0.00°	4936
5.00°	4930
10.00°	4926
15.00°	5210
20.00°	5432
30.00°	6865
40.00°	6017
50.00°	519
60.00°	81
70.00°	37
80.00°	14
90.00°	0

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0° - 30°	4710	41%
0° - 40°	9065	78%
0° - 60°	11500	99%
60° - 90°	86	1%
0° - 20°	1951	17%
20° - 50°	9390	81%
50° - 70°	214	2%
70° - 90°	32	0%
0° - 90°	11587	100%
90° - 180°	0	0%
Total	11587	100%

Spacing Criterion

Height	Spacing	Light Level*
8 ft	13.7 ft	~ 77 fc
10 ft	17.1 ft	~ 49 fc
12 ft	20.5 ft	~ 34 fc
8 ft	10.3 ft	~ 137 fc
10 ft	12.8 ft	~ 88 fc
12 ft	15.4 ft	~ 61 fc
8 ft	6.8 ft	~ 309 fc
10 ft	8.6 ft	~ 197 fc
12 ft	10.3 ft	~ 137 fc

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

MULTIPLIER

CRI	Multiplier	Kelvin	Multiplier	Reflector Finish	Multiplier
80	1	3000K	0.965	SCL	1
		3500K	0.975	SGC	0.95
		4000K	1	WHT	0.87
		5000K	1.098		

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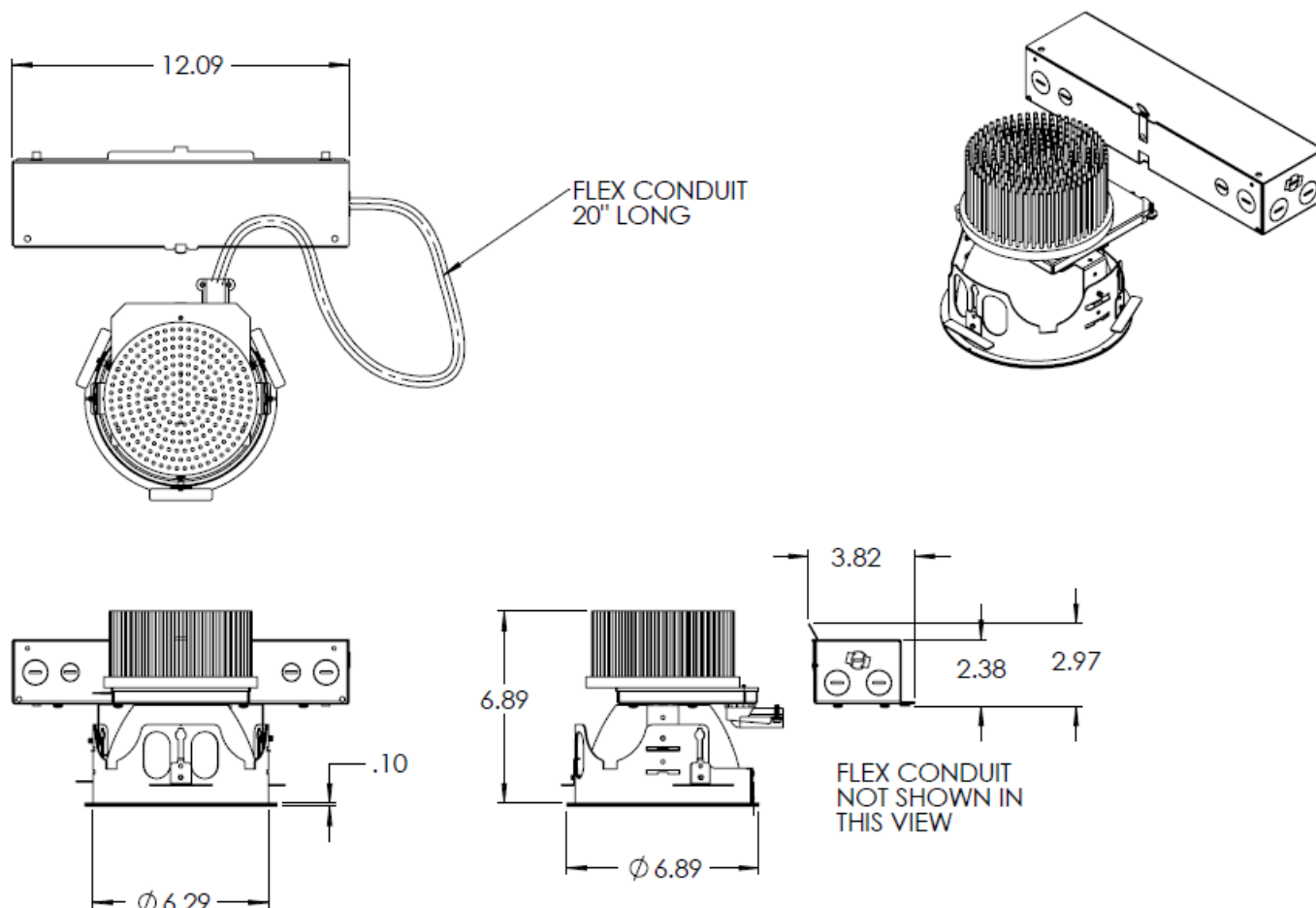
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Dimensional Data

With Medium M6060

EM17/EM20



With Wide W6060

