

# SPECFIT 9.5"

## Retrofit Downlight



GREENCREATIVE



**Mechanical** – SPECFIT retrofits existing commercial housings. Spring action clips to accommodate ½" to 2" ceiling thicknesses. Fixture with remote driver installs and is accessible from below the ceiling.

**Electrical** – Universal 120-277V, 50/60 Hz driver. Three selectable lumen outputs using SelectDrive technology. 0-10V dimmable to 5% with low end cutoff. 12V auxiliary port with stand by power functionality for additional dimming and shut-off of field installed sensors and control systems.

**Optical** – Self flanged spun aluminum reflector. 45° optical cutoff. Field interchangeable optical lenses. Four beam distributions. Wall wash field installed accessory. COB technology ensures 3-step SDCM color uniformity in 2700K, 3000K, 3500K or 4000K CCT. Minimum 90 CRI. 97 CRI available in 3000K only.

**Thermal** – Die cast heat sink. L70 lifetime of 100,000 hours. Ambient temperature rated from -13°F to +95°F (-25°C to 35°C).

**Compliance and Warranty** – ETL Classified and Listed for damp locations. 5 year parts warranty for complete fixture.



### PRODUCT ORDERING INFORMATION

Light Engine and Driver								Reflector	
Series	Light Engine	CRI	CCT	Driver	Voltage	Optical Distribution	Options <sup>4</sup>	Reflector Shape	Finish
AD9.5 Specfit 9.5"	LEM 1500-2000-2500lm	90 90+ CRI	27 2700K	DIM010 <sup>1</sup> 0-10V Dim to 5%	UNV 120-277, 50/60Hz	MD <sup>2</sup> Medium	SD347 347V Transformer	ADR9.5 9.5" Round Reflector	CC Clear Diffuse Trim and Flange
	LEL 3000-4000-5000lm	97 <sup>3</sup> 3000K only	30 3000K			VN Very Narrow	SD480 480V Transformer		CW Clear Diffuse Trim, White Flange
			35 3500K			NR Narrow	EM <sup>5</sup> Emergency Backup		WH Matte White Trim and Flange
			40 4000K			WD Wide			

<sup>1</sup> Dims to 5% with low end cutoff. Dimmer compatibility available on website / <sup>2</sup> Medium Lens Optic comes standard, if other optic distribution selected the lens will ship separately and require field installation / <sup>3</sup> CRI97 is made to order in 3000K only and is not Energy Star listed / <sup>4</sup> Options are factory installed and come with the Light Engine and Driver / <sup>5</sup> EM cannot be combined with SD347 or SD480 option

## Selection\*

Ex: AD9.5-LES-9040-DIM010-UNV-MD-ADR9.5-CC

AD9.5

DIM010

UNV

ADR9.5

\* A complete fixture consists of one light engine and driver and one reflector

ACCESSORY ORDERING INFORMATION

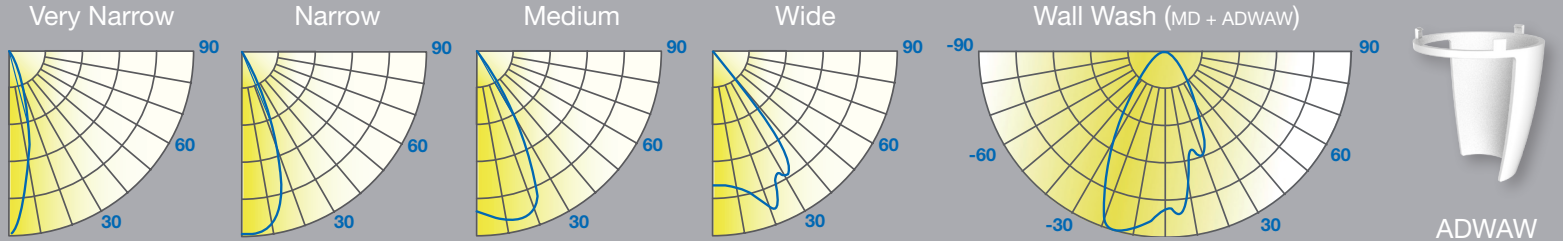
Model	Description
ADAWW	Wall Wash Accessory
9.5GOOF	9.5" Goof Ring - O.D 14-3/16"(360mm)

BEAM DISTRIBUTION\*

VN	25°
NR	40°
MD	60°
WD	75°

ELECTRICAL SPEC

Light Engine	Input Voltage	Input Frequency	Input Current	Input Power	THD Power	Power Factor
LEMXXX	120 / 277V	50 / 60Hz	0.270 / 0.114A	31.5W	<20%	>0.9
LELXXX	120 / 277V	50 / 60Hz	0.530 / 0.217A	60W	<20%	>0.9



LEM (Medium Light Engine and driver) - High / Medium / Low - 31.5 / 25.5 / 18W

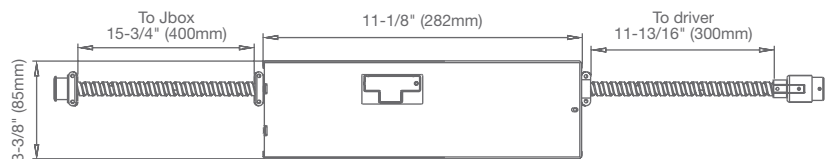
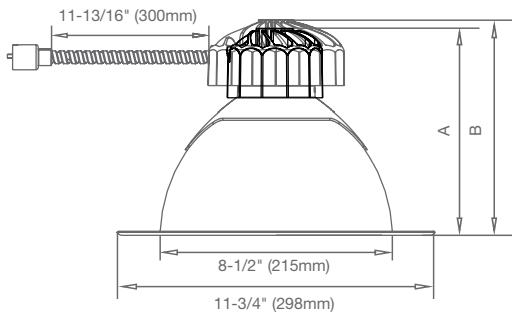
CCT	2700K						3000K						3500K						4000K					
	High		Medium		Low		High		Medium		Low		High		Medium		Low		High		Medium		Low	
Output**	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW
Clear Diffuse	2500	79	2125	83	1600	89	2550	81	2169	85	1632	91	2600	83	2210	87	1664	92	2650	84	2253	88	1696	94
White	2475	78	2104	82	1584	88	2525	80	2147	84	1616	90	2574	82	2188	86	1647	91	2624	83	2230	87	1679	93

LEL (Large Light Engine and driver) - High / Medium / Low - 60 / 48.5 / 37.5W

CCT	2700K						3000K						3500K						4000K					
	High		Medium		Low		High		Medium		Low		High		Medium		Low		High		Medium		Low	
Output**	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW	Im	LPW
CC / CW	4750	79	4085	84	3325	89	4800	80	4080	84	3360	90	5000	83	4250	88	3500	93	5200	87	4420	91	3640	97
White	4703	78	4044	83	3292	88	4752	79	4039	83	3326	89	4950	82	4208	87	3465	92	5148	86	4376	90	3604	96

\*\* Lumen output are based on rated lumens, for exact value please refer to the IES files

LINE DRAWINGS



Trim aperture: 8-1/2" (215mm)  
 Flange Diameter: 11-3/4" (298mm)  
 Height: A (LES & LEM)= 7-5/8" (194mm); B (LEL)= 8" (204mm)  
 Minimum Ceiling opening: 8-5/16" (220mm)

## LIGHT ENGINES



The light engine is designed for maximum performance over its rated L70 life-time of 100,000 hours. The custom die cast aluminum heat sink effectively dissipates the thermal energy created by the industry leading chip on board (COB) LED technology. The COB delivers color consistency of 3-step SDCM with a minimum of 90 CRI. Put it all together and you get incredible color rendering over the life of the SpecFit fixture.

## SELECTDRIVE DRIVERS

Every SPECFIT luminaire comes with SelectDrive technology, which allows for field selection of lumen output. Select from three different lumen output levels by sliding the selector switch on top of the 0-10V dimming driver with low end cutoff. A standard 12V auxiliary port with stand-by power function allow for additional field installation of sensors or control systems, offering even more lighting design flexibility.



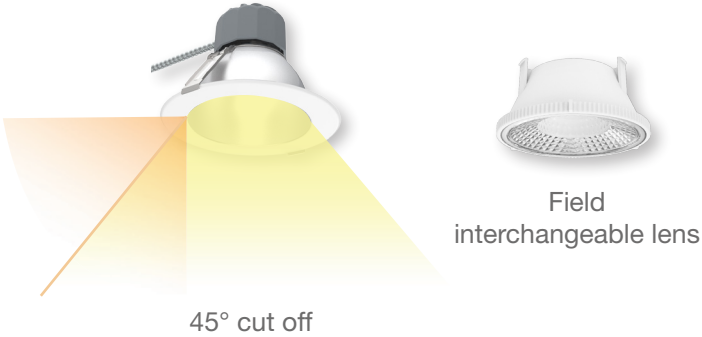
## REFLECTORS



The sturdy self-flanged spun Aluminum reflector is manufactured with performance in mind. The standard Clear Diffuse or Matte White finishes compliment almost any ceiling color. White painted flange is also available with Clear Diffuse for complete ceiling matching.

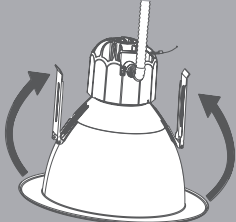
## OPTICS

The reflector is designed with up to 45° optical cut off to help minimize aperture brightness in the ceiling and reduce glare. The multiple choice of beam angles thanks to its field interchangeable lenses allow for even more design flexibility. Choose from Very Narrow, Narrow, Medium or Wide optical distributions to maximize the lighting performance of any sized space.



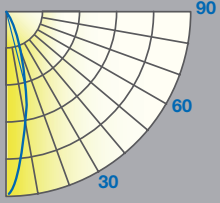
## INSTALLATION

Spring-action clips allow for easy installation into commercial and architectural housings ranging from 8-5/8" - 10-15/16"(220 - 278mm). The quick connector between the driver and the light engines also helps reducing installation time.



# PHOTOMETRY

## AD9.5-LEM9035-DIM010-UNV-VN-ADR9.5CC



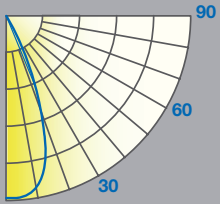
Lumens: 2575 lm  
 Power: 31.0 W  
 Efficacy: 83 lm/W  
 CRI: 90+  
 Spacing Criteria: 0.4  
 Beam Angle: 24°

Candlepower Distribution	
Angle (°)	Average (cd)
10	2193
20	689
30	79
40	6
50	2
60	1
70	0
80	0
90	0

Initial Footcandles		
Height (ft)	fc	Diameter (ft)
4	607	1.7
6	270	2.6
8	152	3.4
10	97	4.3
12	67	5.1

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-30	2231	91%
0-40	2418	99%
0-60	2448	100%
0-90	2452	100%

## AD9.5-LEM9035-DIM010-UNV-NR-ADR9.5CC



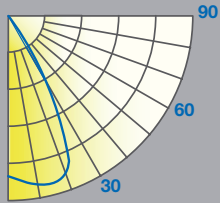
Lumens: 2584 lm  
 Power: 31.4 W  
 Efficacy: 82 lm/W  
 CRI: 90+  
 Spacing Criteria: 0.7  
 Beam Angle: 42°

Candlepower Distribution	
Angle (°)	Average (cd)
10	4949
20	2507
30	909
40	86
50	6
60	2
70	1
80	0
90	0

Initial Footcandles		
Height (ft)	fc	Diameter (ft)
4	300	2.7
6	134	4.0
8	75	5.4
10	48	6.7
12	33	8.1

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-30	2307	89%
0-40	2555	99%
0-60	2579	100%
0-90	2584	100%

## AD9.5-LEM9035-DIM010-UNV-MD-ADR9.5CC



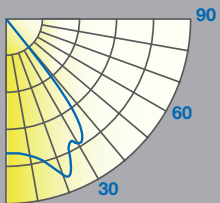
Lumens: 2530 lm  
 Power: 31 W  
 Efficacy: 81.6 lm/W  
 CRI: 90+  
 Spacing Criteria: 0.9  
 Beam Angle: 61°

Candlepower Distribution	
Angle (°)	Average (cd)
10	2662
20	2602
30	1244
40	326
50	9
60	3
70	1
80	0
90	0

Initial Footcandles		
Height (ft)	fc	Diameter (ft)
4	167	3.6
6	74	5.5
8	42	7.3
10	27	9.1
12	19	11.0

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-30	2018	80%
0-40	2470	98%
0-60	2525	100%
0-90	2530	100%

## AD9.5-LEM9035-DIM010-UNV-WD-ADR9.5CC



Lumens: 2592 lm  
 Power: 31.4 W  
 Efficacy: 83lm/W  
 CRI: 90+  
 Spacing Criteria: 1.2  
 Beam Angle: 81°

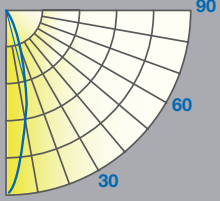
Candlepower Distribution	
Angle (°)	Average (cd)
10	1510
20	1368
30	1994
40	1061
50	27
60	9
70	4
80	1
90	0

Initial Footcandles		
Height (ft)	fc	Diameter (ft)
4	121	6.0
6	54	9.0
8	30	12.1
10	19	15.1
12	13	18.1

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-30	1290	50%
0-40	2313	89%
0-60	2582	100%
0-90	2592	100%

# PHOTOMETRY

## AD9.5-LEL9035-DIM010-UNV-VN-ADR9.5CC



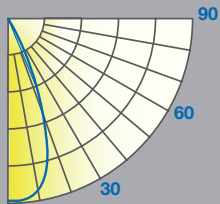
Lumens: 4806 lm  
 Power: 60.7 W  
 Efficacy: 83 lm/W  
 CRI: 90+  
 Spacing Criteria: 0.5  
 Beam Angle: 31°

Candlepower Distribution	
Angle (°)	Average (cd)
10	781
20	453
30	236
40	25
50	3
60	1
70	1
80	0
90	0

Initial Footcandles		
Height (ft)	fc	Diameter (ft)
8	175	4.5
10	112	5.6
12	78	6.7
15	50	8.4
20	28	11.2

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-30	3978	83%
0-40	4701	98%
0-60	4790	100%
0-90	4806	100%

## AD9.5-LEL9035-DIM010-UNV-NR-ADR9.5CC



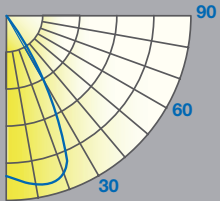
Lumens: 4889 lm  
 Power: 60.4 W  
 Efficacy: 81 lm/W  
 CRI: 90+  
 Spacing Criteria: 0.6  
 Beam Angle: 43°

Candlepower Distribution	
Angle (°)	Average (cd)
10	7797
20	5436
30	2401
40	467
50	22
60	8
70	3
80	1
90	0

Initial Footcandles		
Height (ft)	fc	Diameter (ft)
8	146	6.2
10	93	7.8
12	65	9.4
15	41	11.7
20	23	15.6

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-30	3978	83%
0-40	4701	98%
0-60	4790	100%
0-90	4889	100%

## AD9.5-LEL9035-DIM010-UNV-MD-ADR9.5CC



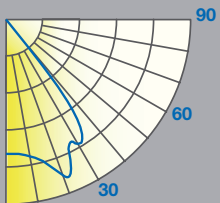
Lumens: 5090 lm  
 Power: 61.2 W  
 Efficacy: 83 lm/W  
 CRI: 90+  
 Spacing Criteria: 0.7  
 Beam Angle: 51°

Candlepower Distribution	
Angle (°)	Average (cd)
10	5884
20	4239
30	2966
40	723
50	22
60	8
70	3
80	1
90	0

Initial Footcandles		
Height (ft)	fc	Diameter (ft)
8	111	7.5
10	71	9.4
12	49	11.2
15	32	14.1
20	18	18.7

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-30	3680	72%
0-40	4920	97%
0-60	5077	100%
0-90	5090	100%

## AD9.5-LEL9035-DIM010-UNV-WD-ADR9.5CC



Lumens: 5103 lm  
 Power: 61.3 W  
 Efficacy: 83 lm/W  
 CRI: 90+  
 Spacing Criteria: 1.1  
 Beam Angle: 81°

Candlepower Distribution	
Angle (°)	Average (cd)
10	3929
20	3712
30	3213
40	1668
50	51
60	18
70	8
80	3
90	0

Initial Footcandles		
Height (ft)	fc	Diameter (ft)
8	71	12.0
10	46	15.0
12	32	18.0
15	20	22.5
20	11	30.0

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-30	3096	61%
0-40	4668	92%
0-60	5081	100%
0-90	5103	100%