COMPLIMENTARY PRODUCTS

Multiple Layers of Light



Luminaire Type: Catalog Number:









General Illumination Food Service Downlight





- · Wipe down flush or regressed lens
- NSF2 Splash/Non-food Zone
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 MacAdam ellipse; 85 CRI typical, 90+ CRI optional
- IP66 rated room-side, Fixtures are wet location, covered ceiling
- · Anti-microbial paint finish, optional
- UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting. <u>UGR FAQ</u>



Distribution



Superior Performance (Flush, Clear Lens)

Nominal Lumens	1000	1500	2000	2500	3000	3500	4000
Delivered	857	1274	1729	2187	2624	3062	3499
Wattage	9.6	14.7	19.7	24.7	29.5	33.8	39.0
Efficacy	89.3	86.7	87.8	88.5	88.9	90.6	89.7

^{*}Lumen output for CRI80 - 3500K

Coordinated Apertures | Multiple Layers of Light



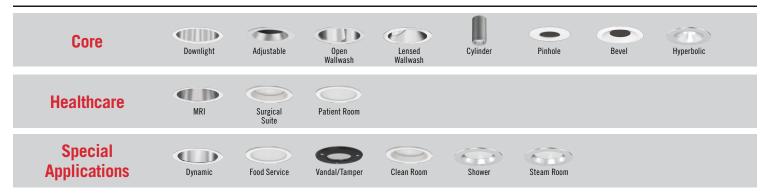




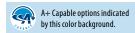
High Center Beam Layer I Incito



EVO + Incito — Multiple Layers of Light







Luminaire Type: Catalog Number:

EXAMPLE: EV06FS 35/20 DFF SOL MVOLT EZ1

Series	Color	Color Temperature Nominal Lumen Values		Lens Setti	Lens Setting			Voltage	Voltage	
EV06FS	27/	2700 K	10	1000 lumens	DFR	Regressed lensed white painted trim	SOL	Textured Lens	MVOLT	
	30/	3000 K	15	1500 lumens	DFF	Flush lensed white painted trim	SMO	Smooth Clear	120	
	35/	3500 K	20	2000 lumens	DFRBR	Regressed lensed black painted trim		Lens	277	
	40/	4000 K	25	2500 lumens	DFFBR	Flush lensed black painted trim				
	50/	5000 K	30	3000 lumens	DFRAMF	Regressed lensed trim with anti-mi-				
			35	3500 lumens		crobial finish				
			40	4000 lumens	DFFAMF	Flush lensed trim with anti-microbial				
			45	4500 lumens		finish				

Driver¹	Control Interface	Emergency	Options
EZ1 eldoLED 0-10V ECOdrive. Linear dimming to 1% min. EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%. EDAB eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	NLT ² nLight™ dimming pack controls NLTER ^{2,3} nLight™ dimming pack controls emergency circuit	(blank) no emergency option ELR4 Emergency battery pack, 10W, with remote test switch. E10WCPR4 Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch BGTD Bodine generator transfer device. Specify 120V or 277V.	SF Single fuse. Specify 120V or 277V. 90CRI High CRI (90+). CP Chicago Plenum. Specify 120V or 277V.

ACCESSORIES — order as separate catalog numbers (shipped separately)

SCA6 Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA8 10D. Refer to TECH-190. CTA EVO6 6" Aperture ceiling thickness adapter, for up to 8,000LM (extends mounting frame to accommodate ceiling thickness up to 5").

CTA4-8 YK 4"-8" Aperture ceiling thickness adapter for use with EDXB or CP up to 8,000LM, or nTune options (extends mounting frame to accommodate ceiling

thickness up to 5").

0-10V wallbox dimmer. Refer to ISD-BC.

RK2 SDT 347/120 75VA U 347V step-down transformer mounted in box installed by others up to 5000lm

ORDERING NOTES

- Refer to TECH-240 for compatible dimmers.
- 2.
- 3. For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
- 4. Not available with CP option.



Optical Assembly

Fully serviceable and upgradeable lensed LED light engine, both the driver and light engine are suitable for field maintenance and are serviceable from above or below the ceiling.

Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

Electrical

The luminaire shall operate from a 50 or 60 Hz ±3 Hz AC line over a voltage ranging from 120 VAC to 277 VAC. The fluctuations of line voltage shall have no visible effect on the luminous output.

The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.

Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.

Input wires shall be 18AWG, 300V minimum, solid copper. All drivers are ROHS compliant.

Controls

Luminaire shall be equipped with interface for nLight wired network with integral power supply as per specification.

Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 - 10%, 100 - 1.0% or 100 - 0.1% of rated lumen output with a smooth shut off function to step to 0%.

eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered.

Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

Construction

Luminaire housing shall be constructed of 16-gauge galvanized steel and have preinstalled telescopic mounting bars with maximum 32" and minimum 15" extension and 4" vertical adjustment.

Luminaires shall be suitable for installation in ceilings up to $1\frac{1}{2}$ " thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 5").

Tool-less adjustments shall be possible after installation.

The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration.

25°C ambient temperature standard (1/2" clearance on all sides from non-combustible materials in non-IC applications, unless marked spacing noted otherwise). For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise).

Listings

Fixtures are CSA certified to meet US and Canadian standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling.

Buy American Act

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to https://www.acuitybrands.com/resources/buy-american for additional information.

Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.

Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 60,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by a point at the intersection of the CCT line and the black body locus line in CIE chromaticity space.

Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note:

Actual performance may differ as a result of end user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C.

** Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight* control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight* control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

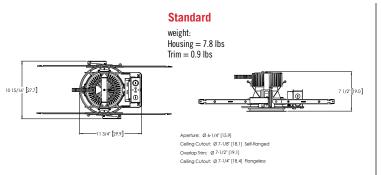


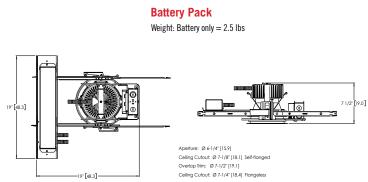
*Dimensions in inches [centimeters]

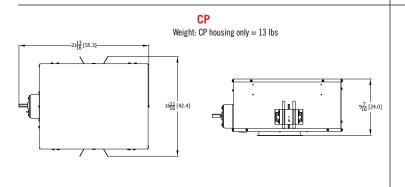
Aperture: 61/4" [15.9)]

Ceiling Opening: 71/8" [18.1] self-flanged

Overlap Trim: 71/2" [19.1]







EVO - eldoLED Driver Default Dimming Curve						
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve			
EZ1	1%	Linear	Linear/Logarithmic			
EXA1	1%	Linear	Linear/Logarithmic			
EZB	<1%	Logarithmic	Linear			
EDAB	<1%	Logarithmic	Linear			
EXAB	<1%	Logarithmic	Linear			
EDXB	<1%	Logarithmic	Linear			

	Driver		Provided ersions provided with 1 selected)
Nomenclature	Description	NLT	NLTER
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP
EZ1	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER

How to Estimate Delivered Lumens in Emergency Mode

Delivered Lumens = 1.25 x P x LPW

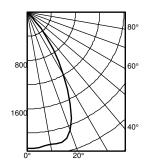
P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.





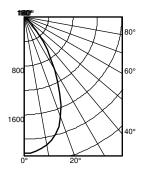
EV06FS 35/25 DFF SM0 80CRI INPUT WATTS: 24.7W, DELIVERED LUMENS: 2186.6LM, LPW = 88.5, 1 S/MH, TEST NO: LTL29886P477



	Ave	Lumens	Zone	Lumens	% Lamp
0	2259		0° - 30°	1590.7	72.7
5	2249	213	0° - 40°	2053.0	93.9
15	2231	622	0° - 60°	2176.1	99.5
25	1677	756	0° - 90°	2186.6	100.0
35	745	462	90° - 180°	0.0	0.0
45	121	109	0° - 180°	2186.6	*100.0
55	14	14	*	Efficiency	
65	6	6			
75	3	3			
85	0	1			
00	^				

		50% beam - 52.4°		10% beam - 76.8°	
	Inital FC				
Mounting	Center				
Height	Beam	Diameter	FC	Diameter	FC
8.0	74.7	5.4	37.3	8.7	7.5
10.0	40.2	7.4	20.1	11.9	4.0
12.0	25.0	9.3	12.5	15.1	2.5
14.0	17.1	11.3	8.5	18.2	1.7
16.0	12.4	13.3	6.2	21.4	1.2

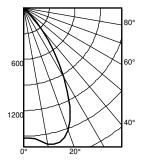
EV06FS 35/25 DFF SOL 80CRI INPUT WATTS: 24.7W, DELIVERED LUMENS: 2140.5LM, LPW = 86.6, 0.9 S/MH, TEST NO: LTL29885P477



	Ave	Lumens	Zone	Lumens	% Lamp
0	2235		0° - 30°	1386.4	64.8
5	2207	208	0° - 40°	1797.0	84.0
15	1991	552	0° - 60°	2046.6	95.6
25	1380	626	0° - 90°	2138.9	99.9
35	652	411	90° - 120°	0.0	0.0
45	212	173	90° - 130°	0.0	0.0
55	82	76	90° - 150°	0.7	0.0
65	50	50	90° - 180°	1.6	0.1
75	31	33	0° - 180°	2140.5	*100.0
85	8	10	*	Efficiency	
				,	

		50% beam - 47.8°		10% be 76.7		
	Inital FC					
Mounting	Center					
Height	Beam	Diameter	FC	Diameter	FC	
8.0	73.9	4.9	36.9	8.7	7.4	
10.0	39.7	6.6	19.9	11.9	4.0	
12.0	24.8	8.4	12.4	15.0	2.5	
14.0	16.9	10.2	8.5	18.2	1.7	
16.0	12.3	12.0	6.1	21.4	1.2	

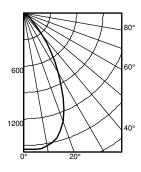
EV06FS 35/25 DFR SM0 80CRI INPUT WATTS: 24.7W, DELIVERED LUMENS: 1682LM, LPW = 68, 1.08 S/MH, TEST NO: LTL29888P477



	Ave	Lumens	zone	Lumens	% Lamp
0	1524		0° - 30°	1176.6	69.9
5	1538	150	0° - 40°	1558.9	92.7
15	1624	453	0° - 60°	1673.7	99.5
25	1278	574	0° - 90°	1682.1	100.0
35	614	382	90° - 180°	0.0	0.0
45	117	103	0° - 180°	1682.1	*100.0
55	11	11	*	Efficiency	
65	5	5			
75	2	3			
85	1	1			
90	0				

		50% beam - 55.3°		10% be 79.5	
	Inital FC				
Mounting	Center				
Height	Beam	Diameter	FC	Diameter	FC
8.0	50.4	5.8	25.2	9.2	5.0
10.0	27.1	7.9	13.5	12.5	2.7
12.0	16.9	10.0	8.4	15.8	1.7
14.0	11.5	12.1	5.8	19.1	1.2
16.0	8.4	14.2	4.2	22.5	8.0

EV06FS 35/25 DFR SOL 80CRI INPUT WATTS: 24.7W, DELIVERED LUMENS: 1623.2LM, LPW = 66.7, 0.97 S/MH, TEST NO: LTL29887P477



	Ave	Lumens		Zone	Lumens	% Lam
0	1546			0° - 30°	1033.2	63.7
5	1549	147		0° - 40°	1369.7	84.4
15	1460	405		0° - 60°	1570.9	96.8
25	1061	481		0° - 90°	1623.2	100.0
35	538	337	9	90° - 180°	0.0	0.0
45	177	144		0° - 180°	1623.2	*100.0
55	60	57		*	Efficiency	
65	34	33				
75	16	16				
85	2	2				
an	Λ					

		50.6	S°	79.3°		
	Inital FC					
Mounting	Center					
Height	Beam	Diameter	FC	Diameter	FC	
8.0	51.1	5.2	25.6	9.1	5.1	
10.0	27.5	7.1	13.7	12.4	2.7	
12.0	17.1	9.0	8.6	15.7	1.7	
14.0	11.7	10.9	5.8	19.1	1.2	
16.0	8.5	12.8	4.2	22.4	8.0	





DFF SMO - Flush Clear								
Nominal Lumens	1000	1500	2000	2500	3000	3500	4000	
Delivered	857	1274	1729	2187	2624	3062	3499	
Wattage	9.6	14.7	19.7	24.7	29.5	33.8	39.0	
Efficacy	89.3	86.7	87.8	88.5	88.9	90.6	89.7	

^{*}Lumen output for CRI80 - 3500K

DFF SOL - Flush Textured								
Nominal Lumens	1000	1500	2000	2500	3000	3500	4000	
Delivered	839	1247	1693	2141	2569	2997	3426	
Wattage	9.6	14.7	19.7	24.7	29.5	33.8	39.0	
Efficacy	87.4	84.8	85.9	86.7	87.1	88.7	87.8	

^{*}Lumen output for CRI80 - 3500K

DFR SMO - Flush Clear								
Nominal Lumens	1000	1500	2000	2500	3000	3500	4000	
Delivered	659	980	1330	1682	2018	2355	2691	
Wattage	9.6	14.7	19.7	24.7	29.5	33.8	39.0	
Efficacy	68.6	66.7	67.5	68.1	68.4	69.7	69.0	

^{*}Lumen output for CRI80 - 3500K

DFR SOL - Regressed Textured								
Nominal Lumens	1000	1500	2000	2500	3000	3500	4000	
Delivered	636	946	1283	1623	1948	2272	2597	
Wattage	9.6	14.7	19.7	24.7	29.5	33.8	39.0	
Efficacy	66.3	64.4	65.1	65.7	66.0	67.2	66.6	

^{*}Lumen output for CRI80 - 3500K

 $\textbf{nLight}^{\texttt{@}}$ The <code>nLight</code>^{\texttt{@}} solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

nLight® Wired Control Accessories

Order as separate catalog number. Visit nLight.

Wall Switches Model Number nPODM (color) On/Off single pole On/Off two pole nPODM 2P (color) On/Off & raise/lower single pole nPOD DX (color) On/Off & raise/lower two pole nPODM 2P DX (color) Graphic touchscreen nPOD GFX (color)

Photocell Controls

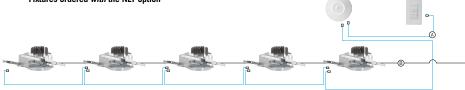
nCM ADCX Dimming

CCT/CRI Multiplier Table CRI CCT Multiplier 2700K 0.96 300K 1.00 3500K 1.00 80 4000K 1.01 5000K 1.07 2700K 0.80 300K 0.83 90 3500K 0.85 4000K 0.87 5000K 0.91

Possibilites for nLight® wired



nPODMA DX Fixtures ordered with the NLT option



nLight® Wired Control Accessories (cont.)

Occupancy Sensors (PIR/dual tech) **Model Number** Small motion 360°, ceiling nCM 9 / nCM PDT 9 Large motion 360°, ceiling nCM 10 / nCM PDT 10 Wide View nWV 16 / nWV PDT 16Wall switch with raise/lower nWSX LV DX / nWSX PDT LV DX

Cat-5 Cables (plenum rated)

10', CAT5 CAT5 10FT J1 15', CAT5 CAT5 15FT J1



