gotham®

Gotham Architectural Downlighting
LED Downlights

DESIGN2SHIP

8" Evo®
Downlight

Solid-State Lighting

A+ CAPABLE

FEATURES

OPTICAL SYSTEM
- Self-flanged semi-specular, matte-diffuse or specular finishing trim
- Patented Bounding Ray™ optical design (U.S. Patent No. 5,800,050)
- 45° cutoff to source and source image
- Top-down flash characteristic
- Polycarbonate lens integral to light engine

MECHANICAL SYSTEM
- 16-gauge galvanized steel construction; maximum 1-1/2" ceiling thickness
- Telescopic mounting bars maximum of 32" and minimum of 15", preinstalled, 4" vertical adjustment
- Toolless adjustments post installation
- Junction box capacity: 8 (4 in, 4 out) 12AWG rated for 90°C
- Light engine and driver accessible through aperture

ELECTRICAL SYSTEM
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- Tested according to LM-79 and LM-80 standards
- Overload and short circuit protected
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional

LISTINGS
- Fixtures are CSA certified to meet US and Canadian standards; wet location, covered ceiling

WARRANTY
- 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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.

WATTAGE CONSUMPTION MATRIX			
LUMENS	**LM ACTUAL**	**WATTAGE**	**LUMENS per WATT**
2000	2,287	31.6	72.5
2500	2,964	41.1	72.0
3000	3,398	47.1	72.2

A+ 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

ORDERING INFORMATION

A+ Capable options indicated by this color background.

Design2Ship Quick Ship Program: Options in green text qualify for Design2Ship — 5 business days from order entry to ship. Refer to Design2Ship Brochure for complete program details. **Maximum Order Quantity: 100 units; 50 for Chicago Plenum.**

EXAMPLE: EVO 35/25 8AR MWD LSS 120 EZ1

Series	Color temperature		Nominal lumen values		Aperture/Trim color		Distribution		Finish		Voltage
EVO	27/	2700 K	20	2000 lumens	8AR	Clear	VND	Very narrow (0.5 s/mh)	LSS	Semi-specular	120
	30/	3000 K	25	2500 lumens	8PR	Pewter	ND	Narrow (0.7 s/mh)	LD	Matte-diffuse	277
	35/	3500 K	30	3000 lumens	8WTR	Wheat	MD	Medium (0.9 s/mh)	LS	Specular	347[2]
	40/	4000 K			8GR	Gold	MWD	Medium wide (1.0 s/mh)			
					8WR[1]	White	WD	Wide (1.2 s/mh)			
					8BR[1]	Black					
					8WRAMF[1]	White anti-microbial					

Driver[3]		Options			
GZ10	0-10V driver dims to 10%	SF[5]	Single fuse.	NPS80EZ[9]	nLight® dimming pack controls 0-10V eldoLED drivers (EZ_).
GZ1	0-10V driver dims to 1%	TRW[6]	White painted flange	NPS80EZER[9]	nLight® dimming pack controls 0-10V eldoLED drivers (EZ_). ER controls fixtures on emergency circuit.
EZ10	eldoLED 0-10V ECOdrive. Linear dimming to 10% min.	TRBL[7]	Black painted flange		
EZ1	eldoLED 0-10V ECOdrive. Linear dimming to 1% min.	EL[8]	Emergency battery pack with integral test switch	N80[10]	nLight® Lumen Compensation
EZB	eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	ELR[8]	Emergency battery pack with remote test switch	BGTD	Bodine generator transfer device. Specify 120V or 277V.
EDAB[4]	eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	ELSD[8]	Emergency battery pack with self-diagnostics, integral test switch	CRI90	High CRI (90+)
EDXB[4]	eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Includes termination resistor. Refer to DMXR Manual.	ELRSD[8]	Emergency battery pack with self-diagnostics, remote test switch	CP[11]	Chicago plenum. Specify 120V or 277V.
EXA1	XPoint Wireless, eldoLED 0-10V ECOdrive. Linear dimming to 1%. Refer to XPoint tech sheet.	E10WCP[8]	Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch	RRL__	RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature.
EXAB	XPoint Wireless, eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%. Refer to XPoint tech sheet.	E10WCPR[8]	Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch		
ECOS2[4,5]	Lutron® Hi-Lume® 2-wire forward-phase driver.120V only. Minimum dimming level 1%.	NPP16D[9]	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).	NLTAIR2[12]	nLight® Air enabled
ECOS3[4,5]	Lutron® Hi-Lume® 3-wire or EcoSystem dimming driver. Minimum dimming level 1%.	NPP16DER[9]	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	NLTAIRER2[12]	nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit

ACCESSORIES

ACCESSORIES order as separate catalog numbers (shipped separately)	
SCA8	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA8 10D. Refer to TECH-190.
CTA4-8 YK	Ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). Adds ~4" to fixture height.
GVRT	Vandal-resistant trim accessory. Refer to TECH-200.
ISD BC	0-10V wallbox dimmer. Refer to ISD-BC.

NOTES

ORDERING NOTES

1. Not available with finishes.
2. Not available with GZ10, GZ1, EL or ELR options.
3. Refer to TECH-240 for compatible dimmers.
4. Not available with nLight® and XPoint options.
5. Must specify voltage 120V or 277V.
6. Not available with white reflector.
7. Not available with black reflector
8. For dimensional changes, refer to TECH-140. Not available with 347V.
9. Specify voltage. For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
10. Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZER.
11. ELR not available.
12. Not available DALI or DMX drivers. Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options. Not recommended for metal ceiling installations.

DIMENSIONAL DATA

All dimensions are inches (centimeters) unless otherwise noted.

$15 \frac{7}{8}$ [40.3]

$14 \frac{3}{16}$ [36.0]

$8 \frac{5}{8}$ [22.0]
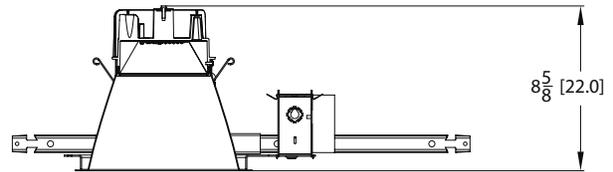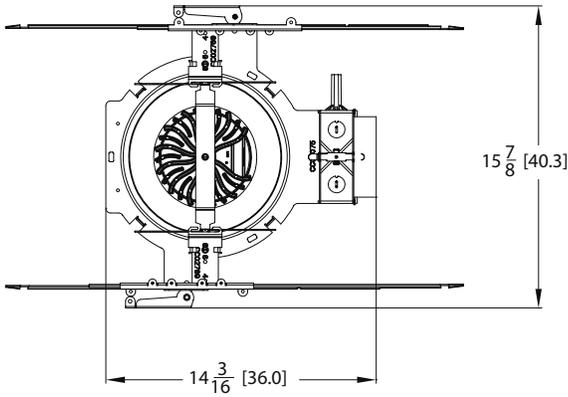
Aperture: 8-5/8 (21.9)
Ceiling Opening: 8-3/4 (22.2)
Overlap Trim: 9-1/4 (23.5)

DIMENSIONS FOR CHICAGO PLENUM

15-7/8

18-3/8

8-11/16
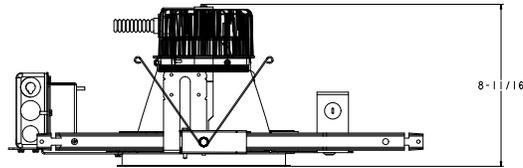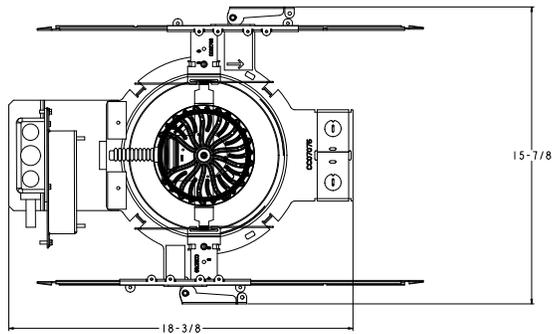
ELECTRICAL

HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

Use the formula below to estimate the delivered lumens
in emergency mode

Delivered Lumens = 1.25 x P x LPW

P = Ouput 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.
The LPW rating is also available at Designlight Consortium.

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance: Single Luminaire 30" Above Floor

CONSULT FACTORY FOR PHOTOMETRY

LUMEN OUTPUT MULTIPLIER - CRI	
CRI	**FACTOR**
80 CRI	1
90 CRI	0.79

LUMEN OUTPUT MULTIPLIER - CCT	
CRI	**FACTOR**
4000 K	1.035
3500 K	1
3000 K	0.973
2700 K	0.938

LUMEN OUTPUT MULTIPLIER - TRIM FINISH						
FINISH	**CLEAR (AR)**	**PEWTER (PR)**	**WHEAT (WTR)**	**GOLD (GR)**	**WHITE (WR/WRAMF)**	**BLACK (BR)**
Specular (LS)	1.00	0.88	0.83	0.95	N/A	N/A
Semi-specular (LSS)	0.95	0.84	0.79	0.90	N/A	N/A
Matte-diffuse (LD)	0.85	0.73	0.69	0.80	N/A	N/A
Paint	N/A	N/A	N/A	N/A	0.87	0.73

PHOTOMETRY NOTES

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
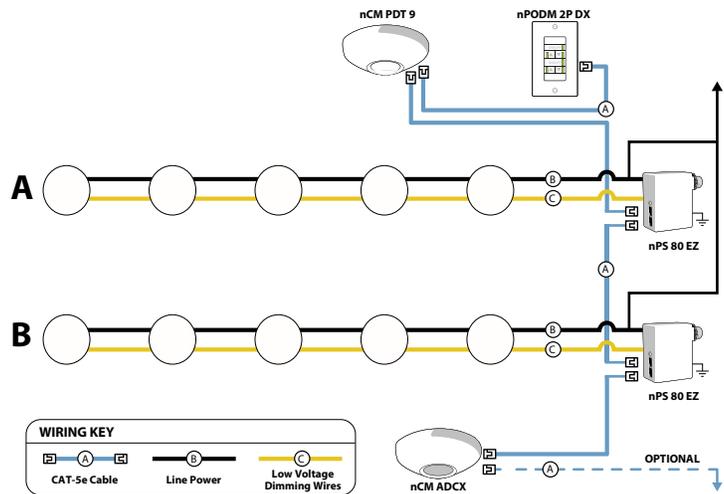- CRI: 85 typical.

CONTROLS

Choose Wall Controls.
nLIGHT offers multiple styles of wall controls – each with varying features and user experience.

Push-Button WallPod
Traditional tactile buttons and LED user feedback

Graphic WallPod
Full color touch screen provides a sophisticated look and feel

nCM PDT 9   nPODM 2P DX

A

B

WIRING KEY

CAT-5e Cable — A — Line Power — B — Low Voltage Dimming Wires — C

nPS 80 EZ

nPS 80 EZ

nCM ADCX   OPTIONAL

EXAMPLE
Group Fixture Control*
*Application diagram applies for fixtures with eldoLED drivers only.

nPS 80 EZ Dimming/Control Pack (qty 2 required)
nPODM 2P DX Dual On/Off/Dim Push-Button WallPod
nCM ADCX Daylight Sensor with Automatic Dimming Control
nCM PDT 9 Dual Technology Occupancy Sensor

Description: This design provides a dual on/off/dim wall station that enables manual control of the fixtures in Row A and Row B separately. Additionally, a daylight harvesting sensor is provided so the lights in row B can be configured to dim automatically when daylight is available. An occupancy sensor turns off all lights when the space is vacant.

nLight® Control Accessories:			
Order as separate catalog number. Visit www.sensorswitch.com/nLight for complete listing of nLight® controls.			
WallPod stations	**Model number**	**Occupancy sensors**	**Model number**
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX [color]	Wide view (PIR / dual tech)	nWV 16 / nWV PDT 16
Photocell controls	**Model number**	Wall Switch w/ Raise/Lower (PIR / dual tech)	nWSX LV DX / nWSX PDT LV DX
Dimming	nCM ADCX	**Cat-5 cables (plenum rated)**	**Model number**
		10', CAT5 10FT	CAT5 10FT J1
		15', CAT5 15FT	CAT5 15FT J1