

OVERVIEW

General Illumination Shower Downlight with nTune

4"

Feature Set

- Tunable White solution that reproduces natural light patterns and colors, complements materials, and supports productivity.
- Rhythm Range (2700K-6500K) follows the cycle of daylight
- Productivity Range (3000K-5000K) to re-energize and inspire, ideal for collaboration
- WARMDIM® Range (3000K-1800K) for relaxing; warm and comfortable when dimmed
- Non-conductive dead-front trim
- Flush or regressed lensed trim with antimicrobial finish for wipe-down areas
- Rated 65,000 hours (L80) at 25°C ambient temperature
- Dim to Dark 100% - 0.1%

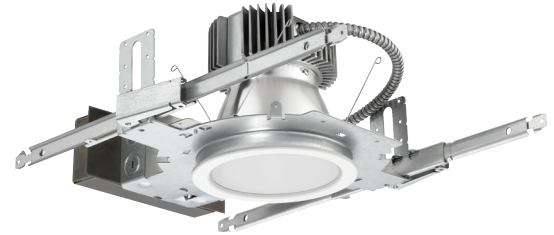
Distribution



Superior Performance

Nominal lumens	750	1000	1500	2000	2500
Delivered	724	1006	1409	1818	2165
Wattage	11	14	19	24	29
Efficacy	69	72	74	76	75

*80 CRI, 3500K



COMPLIMENTARY PRODUCTS

Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

Core




Healthcare



Special Applications



 A+ Capable options indicated by this color background.

Luminaire Type:

Catalog Number:

EXAMPLE: EVO4SH TUWH RHHR/10 DFF SMO MVOLT NLT

Series	Dynamic Feature	Dynamic Range ¹	Nominal lumens values ²	Reflector/Lens Setting/Flange Color	Lens
EVO4SH 4" Round Shower Downlight	TUWH Tunable White WDIM Warm Dimming	PROR Productivity Range (3000K-5000K) RHHR Rhythm Range (2700K-6500K) HALR Halogen Range (3000K-1800K)	/10 1000 lumens	DFR Regressed lensed white trim DFF Flush lensed white trim DFRAMF Regressed lensed white trim with antimicrobial finish DFFAMF Flush lensed white trim with antimicrobial finish	SOL Textured Lens SMO Smooth Clear Lens
			/15 1500 lumens		
			/20 2000 lumens		
			/25 2500 lumens		
			/30 3000 lumens		

Voltage	Control Interface Type	Options
MVOLT Multi-Volt 120 120V 277 277V	NLT³ nLight nTune interface NLTER³ nLight nTune interface with emergency circuit ZT 0-10V dimming DALI DALI logarithmic dimming to <1%.	SF Single fuse. Specify 120V or 277V. E10WCPR⁴ Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch BGTD Bodine generator transfer device
		90CRI High CRI (90+) CP⁵ Chicago Plenum

ACCESSORIES — order as separate catalog numbers (shipped separately)

SCA4	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D. Refer to TECH-190 .
CTA4-8 YK	Ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). Adds 1" to fixture height.
FCS 7TSN XXX	Fresco Lighting Control; XXX = Color. Refer to FRESCO spec sheet for additional options.
nPODM 2P DX CCT XX	nLight 2 Channels, On/off + raise/lower control, CCT, XX = Color
nPODM 4S DX XX	nLight 4 Scene Control, On/off + raise/lower control, XX = Color
nPODM 4S XX	nLight 4 Scene Control, XX = Color

ORDERING NOTES

1. PROR and RHHR available only with TUWH. HALR available only with WDIM.
2. Nominal lumen values when tested at 3500K.
3. Requires power from nLight network bridge or nPS 80.
4. 11" of plenum depth or top access required for battery pack maintenance.
5. Voltage-specific (120 or 277V). Not available with battery pack options.

Optical Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from 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.

Controls

Tunable white nTune™ is an all-digital light color temperature control within an nLight enabled luminaire.

nTune™ allows color temperature settings through the Productivity Range of 3000K to 5000K or Rhythm Range of 2700K to 6500K.

Refer to nLight Programming User's Guide for instructions on customizing your application with SensorView™.

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 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.

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 1½" 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.

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 20% over the minimum operational life of 60,000 hours.

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 www.acuitybrands.com/buy-american for additional information.

Warranty

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/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.

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

DFF SMO (Flush, Clear lens)					
Nominal Lumens	750	1000	1500	2000	2500
Delivered	724	1006	1409	1818	2165
Wattage	11	14	19	24	29
Efficacy	69	72	74	76	75

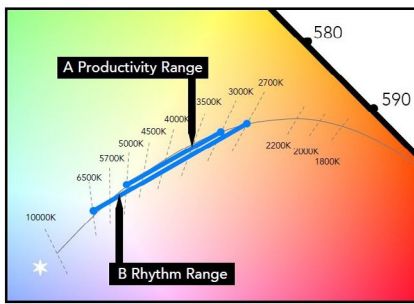
*80 CRI, 3500K

Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
ZT	0.1%	Linear	Linear/Logarithmic
DALI	0.1%	Linear	Linear/Logarithmic

Lumen Output Multiplier		
CRI	CCT	Multiplier
80	2700K	0.96
	3000K	0.97
	3500K	1.00
	4000K	1.01
	5000K	1.07
90	2700K	0.80
	3000K	0.83
	3500K	0.85
	4000K	0.87
	5000K	0.91

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73

MAINSTREAM DYNAMIC TUNABLE WHITE WITH NTUNE TECHNOLOGY

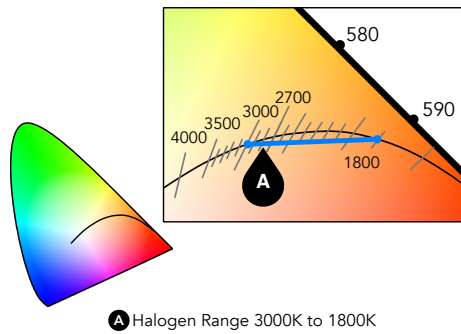


Tunable white nTune™ is an all digital light color temperature control within an nLight enabled luminaire. This brings tunable white lighting control into the mainstream with repeatable, consistent results in an economical luminaire form and system already familiar to schools. Designers and facility operators are granted the freedom to tie scenes to specific activities or to complement colors or materials within a visual environment. nTune™ allows color temperature settings through the Productivity Range of 3000K to 5000K or Rhythm Range of 2700K to 6500K. Refer to nLight Programming User's Guide for instructions on customizing to your application with SensorView™.

TUNABLE WHITE GPHD

Gamut: One dimensional warm-Cool
Path: Direct 3000K to 5000K (Productivity Range) or 2700K to 6500K (Rhythm Range)
Handle: Two Natural Language Handles: Intensity and CCT
Data: nLight with nTune technology for both handles of control

- A** Productivity Range 3000K to 5000K
- B** Rhythm Range 2700K to 6500K



A Halogen Range 3000K to 1800K

How to Estimate Delivered Lumens in Emergency Mode

Delivered Lumens = 1.25 x P x LPW

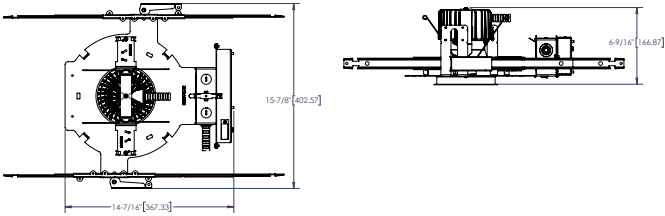
P = Output power of emergency driver. P = 10W for PS1055CP

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

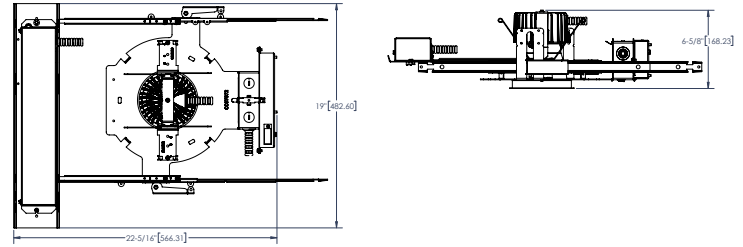
DIMENSIONAL DATA

Aperture: 4-5/16" (11) Ceiling Opening: 5-1/8" (13) self-flanged
 Overlap trim: 5-7/16" (13.8) 5-1/4" (13.3) flangeless

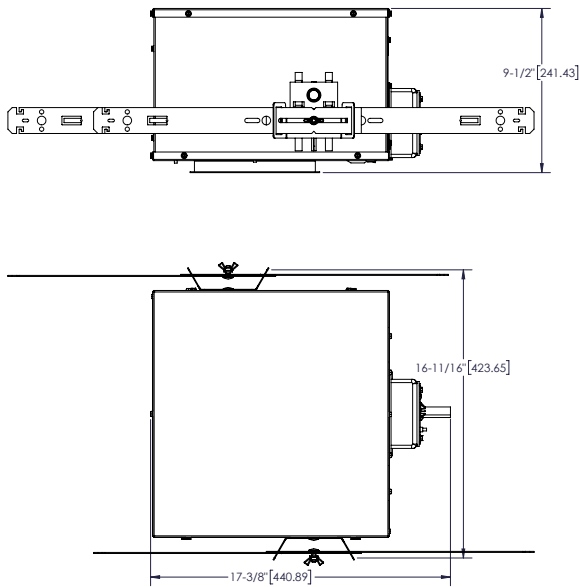
Standard



Battery Pack

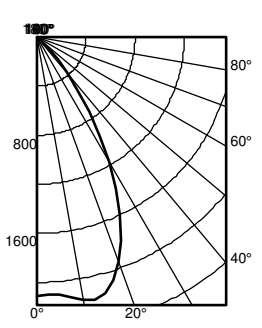


CP Standard



Photometry

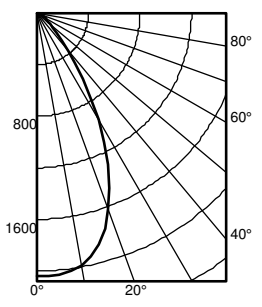
EV04SH TUWH RHYR /25 4DFF SMO CRI80 3500K INPUT WATTS: 29.5, DELIVERED LUMENS: 2165, LM/W=73.4, 1.0 S/MH, TEST NO. LTL29878P99



Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			20%			50%			50% beam -		10% beam -	
						pc	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	53.1°	78.0°
0	2107	0° - 30°	1526.4	70.5	0	119	119	119	116	116	116	111	111	111				
5	2110	0° - 40°	1992.2	92.0	1	111	108	106	108	106	104	104	103	101				
15	2161	0° - 60°	2143.6	99.0	2	103	99	95	101	97	94	98	95	92				
25	1601	0° - 90°	2164.1	100.0	3	96	91	87	94	90	86	92	88	85				
35	748	90° - 120°	0.0	0.0	4	89	84	79	88	83	79	86	82	78				
45	152	90° - 130°	0.0	0.0	5	84	78	73	83	77	73	81	76	72				
55	18	90° - 150°	0.3	0.0	6	78	72	68	77	72	68	76	71	67				
65	11	90° - 180°	0.9	0.0	7	74	67	63	73	67	63	72	66	63				
75	6	0° - 180°	2165.0	*100.0	8	69	63	59	69	63	59	67	62	59				
85	3				9	65	59	55	65	59	55	64	59	55				
90	0				10	62	56	52	61	56	52	60	55	52				

Mounting Height	Center Beam	Diameter	FC	Diameter	FC
8.0	69.7	5.5	34.8	8.9	7.0
10.0	37.5	7.5	18.7	12.1	3.7
12.0	23.3	9.5	11.7	15.4	2.3
14.0	15.9	11.5	8.0	18.6	1.6
16.0	11.6	13.5	5.8	21.8	1.2

EV04SH TUWH RHYR /25 4DFF SOL CRI80 3500K INPUT WATTS: 29.5, DELIVERED LUMENS: 2059, LM/W=69.8, 0.91 S/MH, TEST NO. LTL29877P99



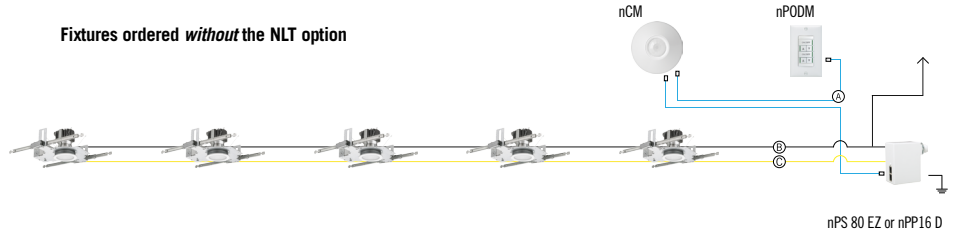
Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			20%			50%			50% beam -		10% beam -	
						pc	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	48.5°	77.7°
0	2045	0° - 30°	1296.8	63.0	0	119	119	119	116	116	116	111	111	111				
5	2038	0° - 40°	1692.6	82.2	1	109	106	104	107	105	102	103	101	99				
15	1860	0° - 60°	1956.2	95.0	2	100	96	92	99	94	91	95	92	89				
25	1298	0° - 90°	2059.4	100.0	3	93	87	83	91	86	82	89	84	81				
35	629	90° - 180°	0.0	0.0	4	86	80	75	85	79	74	82	77	74				
45	219	0° - 180°	2059.4	*100.0	5	80	73	69	79	73	68	77	72	68				
55	92				6	74	68	63	74	67	63	72	67	62				
65	57				7	70	63	59	69	63	58	68	62	58				
75	34				8	65	59	54	65	59	54	64	58	54				
85	9				9	62	55	51	61	55	51	60	54	51				
90	0				10	58	52	48	58	52	48	57	51	47				

Mounting Height	Center Beam	Diameter	FC	Diameter	FC
8.0	67.6	5.0	33.8	8.9	6.8
10.0	36.4	6.8	18.2	12.1	3.6
12.0	22.7	8.6	11.3	15.3	2.3
14.0	15.5	10.4	7.7	18.5	1.5
16.0	11.2	12.2	5.6	21.7	1.1

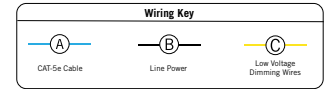
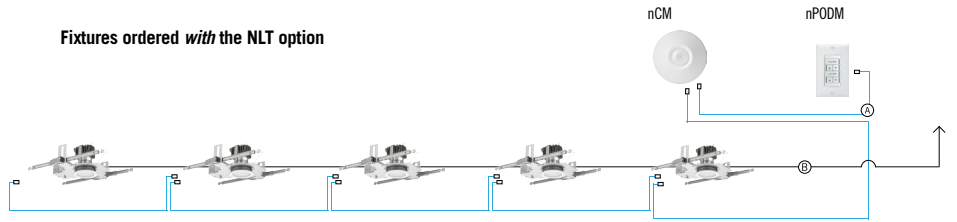
nLight® The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

Possibilities for nLight® wired

Fixtures ordered *without* the NLT option



Fixtures ordered *with* the NLT option



nLight® Wired Control Accessories

Order as separate catalog number. Visit [nLight](http://nLight.com).

Wall Switches	Model Number
On/Off single pole	nPODM (color)
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	Model Number
Dimming	nCM ADCX

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 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX

Cat-5 Cables (plenum rated)	Model Number
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1