gotham® | EVO®

Multiple Layers of Light

Luminaire Type: _____

Catalog Number: _____

BAA · **66 IP RATED** · **NSF** · **CA+ CAPABLE**

General Illumination Patient Room 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
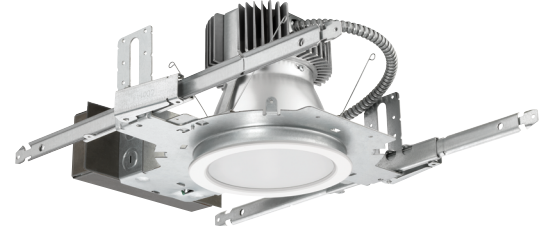- Dim to Dark 100% - 0.1%

Distribution

medium wide
1.0 S:MH

Superior Perfomance

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

Coordinated Apertures | Multiple Layers of Light

General Illumination Layer | EVO

High Center Beam Layer | Incito

EVO + Incito — Multiple Layers of Light

Core

Downlight	Adjustable	Open Wallwash	Lensed Wallwash	Cylinder	Pinhole	Bevel	Hyperbolic

Healthcare

MRI	Surgical Suite	Patient Room

Special Applications

Dynamic	Food Service	Vandal/Tamper	Clean Room	Shower	Steam Room

ORDERING INFORMATION

CA+ Capable options indicated by this color background.
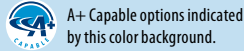
Luminaire Type: _____

Catalog Number: _____

EXAMPLE: EVO4P 35/20 DFF SOL MVOLT NLT

Series		Dynamic Feature		Dynamic Range[1]		Nominal lumens values[2]		Reflector/Lens Setting/Flange Color		Lens	
EVO4P	4" Round Patient Room Downlight	**TUWH**	Tunable White	**PROR**	Productivity Range (3000K-5000K)	**/10**	1000 lumens	**DFR**	Regressed lensed white trim	**SOL**	Textured Lens
		WDIM	Warm Dimming	**RHYR**	Rhythm Range (2700K-6500K)	**/15**	1500 lumens	**DFF**	Flush lensed white trim	**SMO**	Smooth Clear Lens
				HALR	Halogen Range (3000K-1800K)	**/20**	2000 lumens	**DFRAMF**	Regressed lensed white trim with antimicrobial finish		
						/25	2500 lumens	**DFFAMF**	Flush lensed white trim with antimicrobial finish		
						/30	3000 lumens				

Voltage		Control Interface Type		Options			
MVOLT	Multi-Volt	**NLT**[3]	nLight nTune interface	**SF**	Single fuse. Specify 120V or 277V.	**90CRI**	High CRI (90+)
120	120V	**NLTER**[3]	nLight nTune interface with emergency circuit	**E10WCPR**[4]	Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch	**CP**[5]	Chicago Plenum
277	277V	**ZT**	0-10V dimming	**BGTD**	Bodine generator transfer device		
		DALI	DALI logarithmic dimming to <1%.				

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 RHYR 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.

MAINSTREAM DYNAMIC BY ACUITY BRANDS

SPECIFICATIONS

Optical Assemby

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

MAINSTREAM DYNAMIC
BY ACUITY BRANDS

Tables of Use

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	Multplier
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

MAINSTREAM DYNAMIC TUNABLE WHITE WITH NTUNE TECHNOLOGY
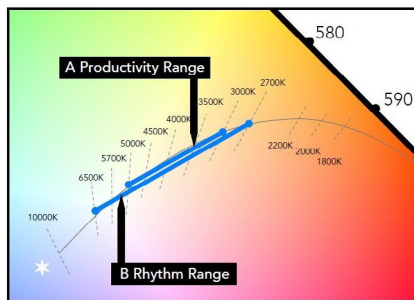
A Productivity Range 3000K to 5000K

B Rhythm Range 2700K to 6500K

Tunable white nTune™ is an all digital light color temperature control wihin 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 applicaton 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 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.

MAINSTREAM DYNAMIC BY ACUITY BRANDS®

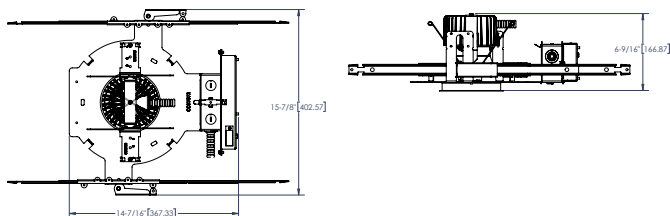*Dimensions in inches [centimeters]

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
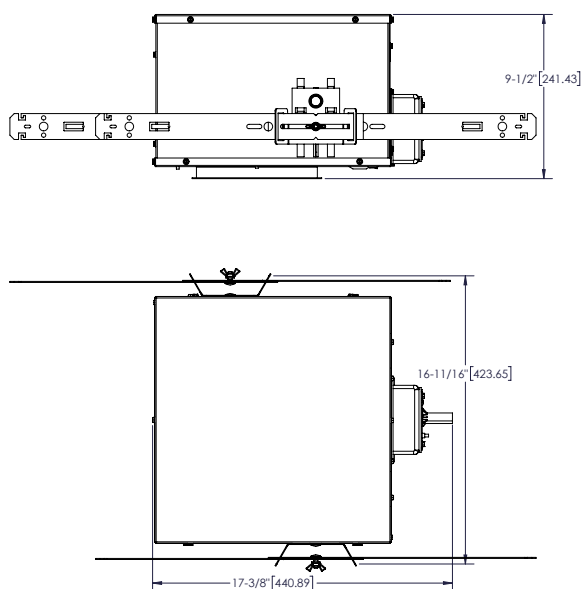

6-9/16" [166.87]

15-7/8" [402.57]

14-7/16" [367.33]

Battery Pack

6-5/8" [168.23]

19" [482.60]

22-5/16" [566.31]

CP Standard

9-1/2" [241.43]

16-11/16" [423.65]

17-3/8" [440.89]

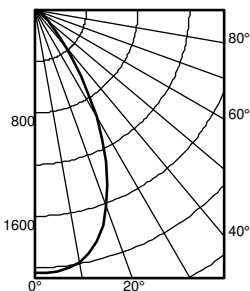**MAINSTREAM DYNAMIC** BY ACUITY BRANDS®

Photometry
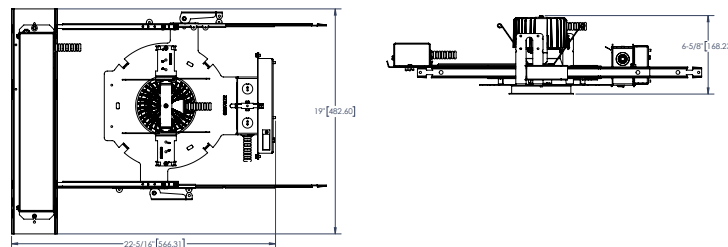
EV04P TUWH RHYR /25 4DFF SMO CRI80 3500K

INPUT WATTS: 29.5, DELIVERED LUMENS: 2059, LM/W=69.8, 0.91 S/MH, TEST NO. LTL29878P219

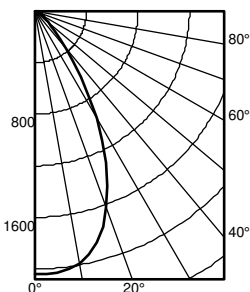|	Ave	Lumens
0	2045	
5	2038	193
15	1860	515
25	1298	589
35	629	396
45	219	179
55	92	85
65	57	56
75	34	36
85	9	11
90	0	

Zone	Lumens	% Lamp
0° - 30°	1296.8	63.0
0° - 40°	1692.6	82.2
0° - 60°	1956.2	95.0
0° - 90°	2059.4	100.0
90° - 180°	0.0	0.0
0° - 180°	2059.4	*100.0
	*Efficiency	

pf pc pw	80% 50% 30% 10%	20% 70% 50% 30% 10%	50% 50% 30% 10%
0	119 119 119	116 116 116	111 111 111
1	109 106 104	107 105 102	103 101 99
2	100 96 92	99 94 91	95 92 89
3	93 87 83	91 86 82	89 84 81
4	86 80 75	85 79 74	82 77 74
5	80 73 69	79 73 68	77 72 68
6	74 68 63	74 67 63	72 67 62
7	70 63 59	69 63 58	68 62 58
8	65 59 54	65 59 54	64 58 54
9	62 55 51	61 55 51	60 54 51
10	58 52 48	58 52 48	57 51 47

Mounting Height	Inital FC Center Beam	50% beam - 48.5° Diameter	FC	10% beam - 77.7° 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

EV04 TUWH RHYR /30 4AR LS CRI80 3500K

INPUT WATTS: 29.5, DELIVERED LUMENS: 2059, LM/W=69.8, 0.91 S/MH, TEST NO. LTL29877P219

	Ave	Lumens
0	2045	
5	2038	193
15	1860	515
25	1298	589
35	629	396
45	219	179
55	92	85
65	57	56
75	34	36
85	9	11
90	0	

Zone	Lumens	% Lamp
0° - 30°	1296.8	63.0
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0° - 90°	2059.4	100.0
90° - 180°	0.0	0.0
0° - 180°	2059.4	*100.0
	*Efficiency	

pf pc pw	80% 50% 30% 10%	20% 70% 50% 30% 10%	50% 50% 30% 10%
0	119 119 119	116 116 116	111 111 111
1	109 106 104	107 105 102	103 101 99
2	100 96 92	99 94 91	95 92 89
3	93 87 83	91 86 82	89 84 81
4	86 80 75	85 79 74	82 77 74
5	80 73 69	79 73 68	77 72 68
6	74 68 63	74 67 63	72 67 62
7	70 63 59	69 63 58	68 62 58
8	65 59 54	65 59 54	64 58 54
9	62 55 51	61 55 51	60 54 51
10	58 52 48	58 52 48	57 51 47

Mounting Height	Inital FC Center Beam	50% beam - 48.5° Diameter	FC	10% beam - 77.7° 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

MAINSTREAM DYNAMIC
BY ACUITY BRANDS®

NLIGHT

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.

Possibilites for nLight® wired

Fixtures ordered *without* the NLT option

nCM   nPODM

nPS 80 EZ or nPP16 D

Fixtures ordered *with* the NLT option

nCM   nPODM

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

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nLight® Wired Control Accessories

Order as separate catalog number. Visit nLight.

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	
Dimming	nCM ADCX

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nLight® Wired Control Accessories *(cont.)*

Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360º, ceiling	nCM 9 / nCM PDT 9
Large motion 360º, 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)	
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

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