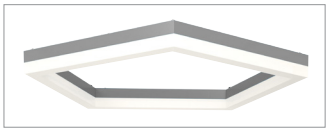
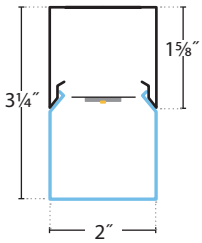
BoltPro Pentagon | Pendant, Surface & Wall

PRUDENTIAL LTG.
PRULITE.COM 213.746.0360

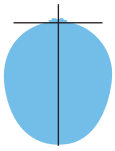




NEW ACOUSTIC OPTIONS

Design + Function. BoltPro shapes + sound absorbing panels.

Bolt Triangle, Square, Pentagon and Hexagon now available with acoustic panels. We are in an era of open ceilings, concrete floors where noise reduction is imperative. Add fixtures with abundant light, vertical illumination and a multitude of shapes and colors for a "two birds (maybe three), one stone" solution.



BPEN-PRO-LED35-LO

5043	Delivered Lumens
38	Watts
133	lm/w

UP TO 133 LPW

	LO	MO	SO	HO
lm	5000	8400	11400	14700
w	38	65	94	125

SOCIAL MEDIA KIT · Declare. · LED WARRANTY 5 YEAR · LED Details · Made in the USA

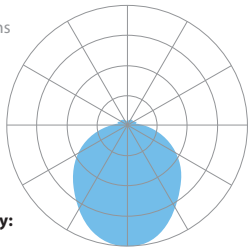
Lumen output may vary +/- 5%
3500K used for lm/ft estimates above
4000K +2% llf, 3000K –2%, 2700K –4%
-10% LLF for 90 CRI (4K, 3500K and 3K)
See LED Details PDF for more info

SERIES	NOMINAL LENGTH	LED COLOR	OUT-PUT	SHIELD-ING	ACOUSTIC COLORS (OPTIONAL)	COLOR/ FINISH	VOLT-AGE	MOUNT-ING	CEILING SYSTEMS	DRIVERS	OPTIONS & SENSORS
BPEN-PRO	22			SAL							
Bolt Pentagon Pro	22 2′+2′+2′+2′+2′ (41″ Diameter)	LED27 2700K (90CRI) LED3 3000K LED35 3500K LED4 4000K LED3-90 90CRI LED35-90 90CRI LED4-90 90CRI LED5-90 90CRI	LO Low MO Me-dium SO Stan-dard HO High PROG Pro-gram-mable Light Output (Specify desired lm/ft or w/ft)	SAL Satin Acrylic Lens	**STANDARD:** DB05 White DB03 Marble DB33 Grey **PREMIUM:** (LONGER LEAD TIMES) DB02 Oat DB27 Teal DB24 Sky Blue DB26 Midnight Blue DB09 Yellow DB16 Orange DB10 Red DB28 Hickory DB12 Pink DB01 Sand Dollar DB06 Periwinkle DB36 Black DB20 Lime DB23 Honey Dew DB18 Maroon DB14 Violet DB29 Brown DB30 Earth Brown DB32 Stone DB34 Charcoal DB35 Pepper DB31 Blue Jean DB25 Navy DB11 Berry DB17 Pumpkin DB08 Lemon DB19 Pear DB21 Green DB22 Heather Green DB13 Lilac DB15 Purple DB07 Salmon	TMW Textured Matte White YGW Gloss White (Standard) Y__ Premium Color CC Cus-tom Color **NOTE:** All canopies are painted the same color as the fix-ture. Consult factory to specify	UNV (120-277) 347 (Emer-gency battery requires a Step Down trans-former)	CA48″, 96″ or 144″ Aircraft Cable (Adjustable 5RPM48″, 96″ or 144″ Round Cast Alu-minum Canopy (24″ min from fixture to ceiling) 5SPM48″, 96″ or 144″ Square Cast Alu-minum Canopy (24″ min from fixture to ceiling) SUR Surface or Wall Mount	X1 T-Bar 15/16″ or 9/16″ Exposed (Standard) X3 Hard Ceiling X6 Slot Grid or Interlude	ND Non-Dim-ming DM01 0-10v, 1% Dimming (Standard) LDE1 Hi-lume 1% EcoSystem LED (Soft fade on, fade-to-black dimming) ECO 1% 0-10v, EldoLED (Logarithmic dimming std) ECDA 1% DALI, EldoLED (Logarithmic dimming std) nLight-Air includes rIO (ECDA driver ONLY nLight-Wired Acu-ity nLight Drivers (ECO driver ONLY) SOLO 0.1% 0-10v, EldoLED (Dim-to-dark, Logarithmic dimming std) SODA 0.1% DALI, EldoLED (Dim-to-dark, Logarith-mic dimming std) STEP Signify Advance Step Dimming 2WIRE ELV/ Forward/Reverse Phase Driver	EMHE CA T20 Emergency Battery (1350 Delivered lumens, CA Title 20 compliant)) ETS-DR Iota ETS-DR Emergency Transfer Switch **SENSORS:** (See Page 8) 205 WattStopper PIR Occupancy **205-ON/OFF 205-STEP:** Dim to 50% **205-DM:** Dim to 1% ATHENA Lutron RF ENL Enlighted SU-5E-IOT LVOC‡‡ Lutron Vive (Occ & RF) LVRF‡‡ Lutron Vive (RF Only) ‡‡ Requires Lutron driver NXSMP Hubbell (Occ) nLT-AIR-ADCX Daylight+(PIR Acoustic) Occ nLT-WIRED-ADCX Daylight+(PIR Acoustic) Occ

PHOTOMETRICS

Low Output:
BPEN-PRO-LED35-LO

5043 Delivered Lumens
38 Watts
125 lm/w
133 CCT



Zonal Lumen Summary:
0-90 (Down) = 89%
90-180 (Up) = 11%

1370

Vertical Angle	0°	45°	90°	135°	180°
0°	1370	1370	1370	1370	1370
5°	1359	1363	1366	1362	1368
15°	1310	1306	1310	1311	1304
25°	1200	1191	1209	1208	1200
35°	1058	1048	1058	1069	1064
45°	907	897	911	925	925
55°	758	751	766	782	783
65°	599	593	611	627	628
75°	433	428	445	459	458
85°	273	267	280	296	286
90°	146	135	146	151	135
95°	153	142	147	165	166
105°	114	117	134	131	105
115°	99	97	102	101	95
125°	81	73	74	76	74
135°	65	61	59	61	67
145°	63	53	50	60	57
155°	44	40	37	42	42
165°	26	25	23	25	24
175°	11	10	10	12	12
180°	0	0	0	0	0

LUMEN MAINTENANCE

L70 — 200,000+ Hours
L90 — 100,000+ Hours (LO, MO & SO)
L90 — 60,000+ Hours (HO)

LED SYSTEM LED modules and drivers are field replaceable.

PROG (OPTIONAL) Programmable light output. Specify desired lumens or watts per linear foot. Min: 3.75 w/ft, Max 12.5 w/ft.

BINNING Standard binning (all Prudential LED boards) includes testing at the chip level and board integration to provide consistent color temperature within a 3-step MacAdam ellipse, with +/- 5% lumen output range and +/- .004 Duv.

LABELS CSA and ETL damp labeled and I.B.E.W. manufactured.

ELECTRICAL Must specify LED dimming controls. LED fixtures have constant current driver(s) with less than 20% THD when loaded to a minimum of 60%. Drivers sink a maximum of 6mA per driver. DM01 LED drivers are 0-10V dimmable and are compatible with most 0-10V wall slide dimmers and direct 0-10V analog signal dimmers. Max driver size 1.65˝ w x 1.25˝ h.

32v Forward Voltage (+/– 1 volt based on drive current)

Drive Currents:
LO: 100mA, **MO:** 100mA, **SO:** 250mA, **HO:** 325mA

CONSTRUCTION

Housing — Extruded aluminum, 25% PC recycled, 100% recyclable

Lens — Extruded acrylic, 100% recyclable

Weight — 20 lbs

MOUNTING Fixture is to be suspended with aircraft cables or surface mounted.

WARRANTY Single-source, 5 year limited warranty covers standard components and construction.

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YSW – Seashell White (Matte)
YCH – Champagne (Metallic)
YSL – Silver (Metallic)
YPE – Pewter (Matte)
YRG – Rain Grey (Gloss)
YSTM – Storm Grey (Matte)
YBK – Black (Matte)
YBB – Black (Semi Gloss)
YSKM – Sky (Matte)
YMB – Military Blue (Matte)
YIB – Interstate Blue (Matte)
YSAM – Sapphire (Matte)
YFGM – Forest Green (Matte)
YBR – Bronze (Matte)
YBY – Boysenberry (Matte)
YSRM – Sunset Red (Matte)
YOR – Orange (Matte)
YDAM – Daffodil (Matte)

Choose from one of our Premium Colors with no set-up fee.

For paint chip samples, please email:
info@prulite.com

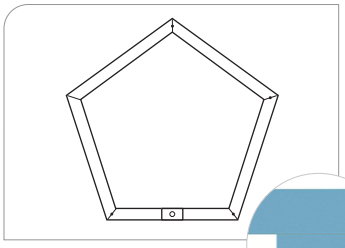
SENSOR BOX

205
WattStopper PIR Occupancy

ENL
Enlighted 2-Wire PIR Daylight, Motion & Environmental Sensor

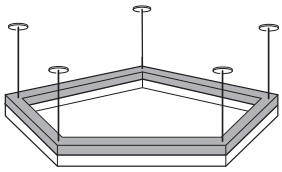
NOTE: Sensor plate will match fixture color

SENSOR MOUNTING LOCATION



Sensor box is always centered in one lens

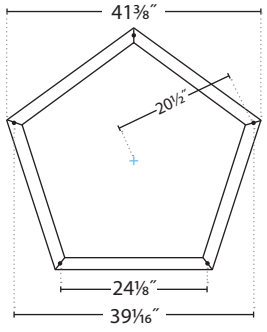
MOUNTING



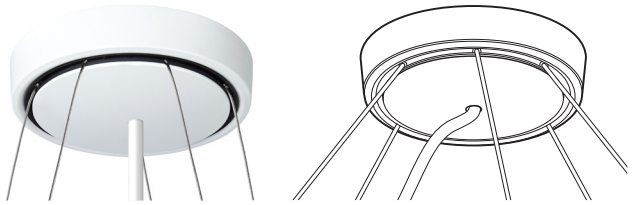
CA48″, 96″ & 144″: 5″ Canopies

MOUNTING DIMENSIONS

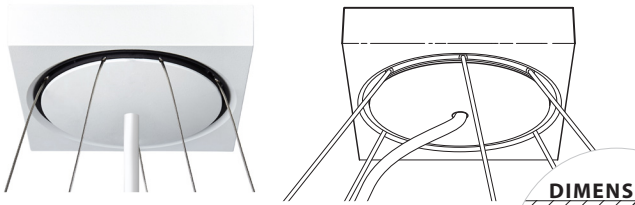
- Cable & Surface Mounting



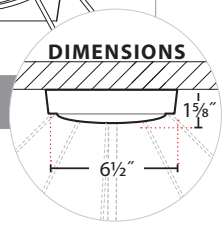
5RPM48″, 96″ or 144″: Round Cast Aluminum Canopy



5SPM48″, 96″ or 144″: Square Cast Aluminum Canopy



NOTE: Canopies cannot mount directly to t-bar grids

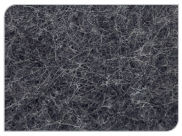


ACOUSTIC COLORS

STANDARD

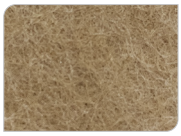

DB05 White

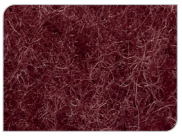

DB03 Marble

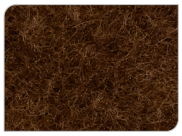

DB33 Grey

PREMIUM (LONGER LEAD TIMES)

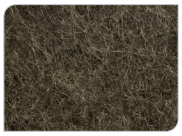

DB01 Sand Dollar

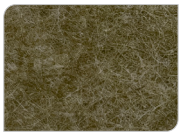

DB02 Oat


DB18 Maroon

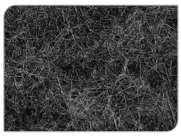

DB28 Hickory

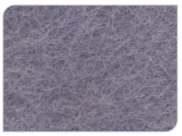

DB29 Brown

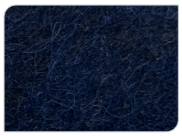

DB30 Earth Brown

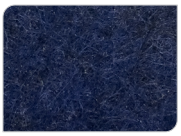

DB32 Stone

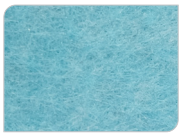

DB34 Charcoal

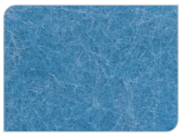

DB35 Pepper

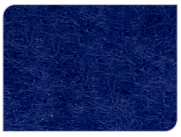

DB06 Periwinkle

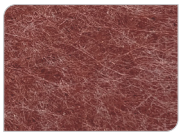

DB31 Blue Jean


DB26 Midnight Blue


DB27 Teal

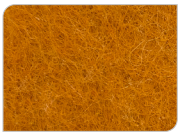

DB24 Sky Blue

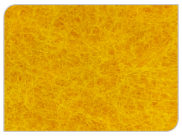

DB25 Navy

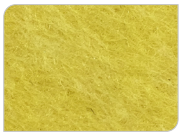

DB11 Berry


DB10 Red

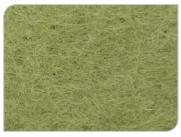

DB16 Orange

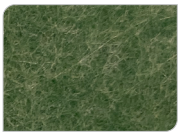

DB17 Pumpkin

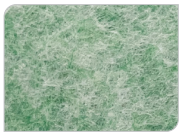

DB09 Yellow

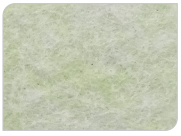

DB08 Lemon

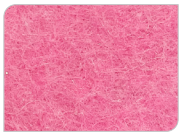

DB20 Lime


DB19 Pear

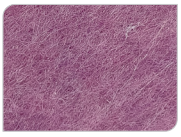

DB21 Green

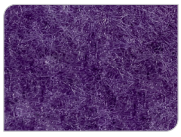

DB22 Heather Green

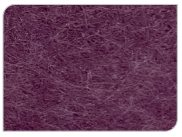

DB23 Honey Dew


DB12 Pink


DB07 Salmon


DB13 Lilac

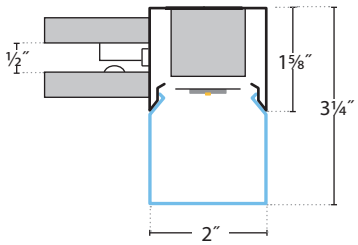

DB14 Violet


DB15 Purple

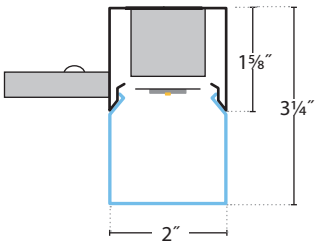

DB36 Black

Consult factory for Premium Color acoustic lead times.

CROSS SECTION



Two layers of acoustic with ½″ air gap for better sound absorption



One layer acoustic for Surface Mounted

SOUND ABSORPTION

Why acoustical fixtures?

Open office, open ceilings, hard floors have replaced sound absorbing cubicles, acoustic ceilings and carpet, thus acoustics have declined, enter Acoustics.

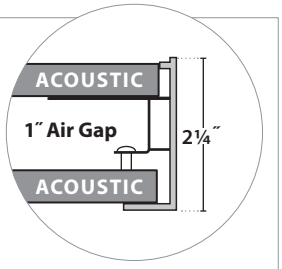
The benefits of Acoustics?

- Reduced echoes, background noise
- Improved sound quality
- A more peaceful space
- Enhanced aesthetics

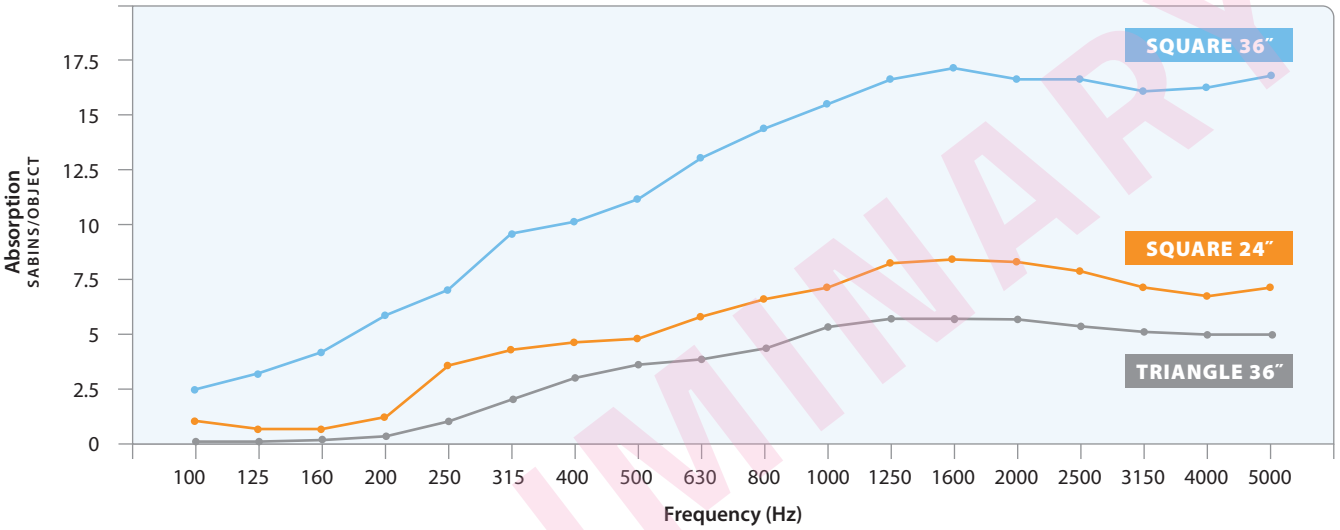
How can I calculate Acoustic sound absorption?

Sabins per object is the standard measurement. One Sabins is approximately 1ft² of sound absorption. Sound absorption varies at different frequencies.

For precise acoustic performance of a space, please consult an acoustician.



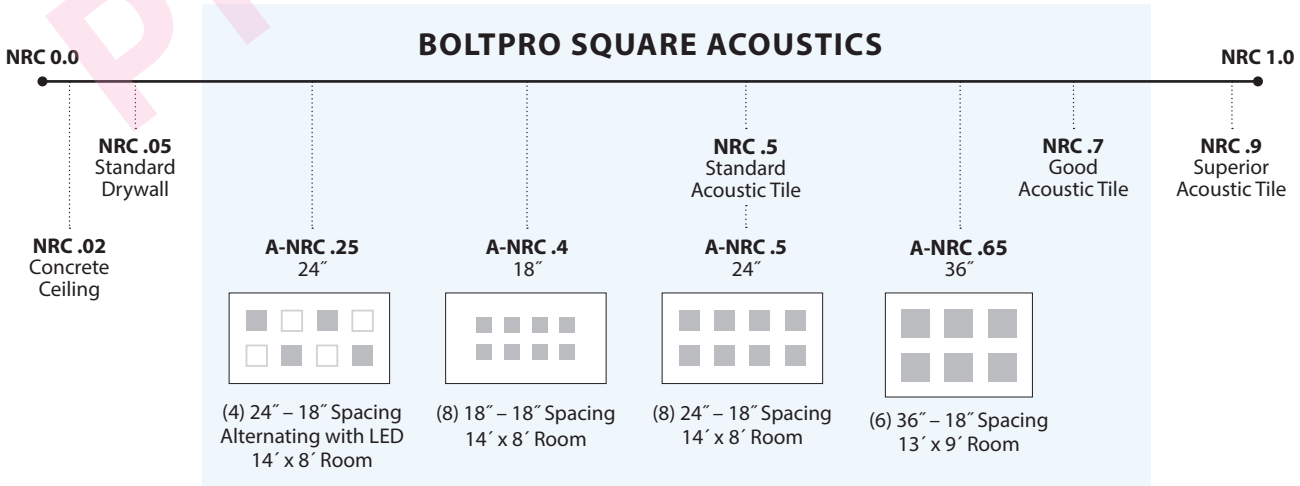
Two layers of acoustic trapping 1″ of air for superior sound absorption



What is an NRC rating?

Noise Reduction Coefficient (NRC) is a rating for how much sound a surface absorbs according to the test method ASTM C423. Acoustic performance is measured using this rating. NRC is the average Sabins per square foot of surface covered. Apparent NRC (A-NRC) Ratings are calculated from the total Sabins measured for an object array over an area of projected continuous ceiling This is equivalent to ceiling tile of the same NRC rating over the same installed area.

NRC ratings range from 0 to 1+



PRULITE ACOUSTIC CALCULATOR

How many Acoustic fixtures should you choose for your space? There are multiple factors when calculating acoustics, we have done our best to provide a simple guide for those who prefer not to calculate using Sabins per Object or NRC ratings.

1) Calculate the square feet of your space (L x W).

2) Choose the amount of acoustical improvement you want (sound absorption for reduced reverberation) and find the Acoustic VALUE based on room dimensions.

Estimated % of reduced reverberation time		
✓	GOOD	25%
✓✓	BETTER	37.5%
✓✓✓	BEST	50%

	Room dimensions under 300 sq ft			Room dimensions over 300 sq ft		
SIZE	GOOD ✓	BETTER ✓✓	BEST ✓✓✓	GOOD ✓	BETTER ✓✓	BEST ✓✓✓
36″ Triangle Acoustic	20	15	10	30	20	15
24″ Square Acoustic	30	20	15	40	30	20
36″ Square Acoustic	40	30	25	60	40	30

Calculations based on a 9′ ceiling height.
Prudential Lighting Acoustic Calculator is a guide.
For precise acoustic performance, please consult an acoustician.

3) Use this Acoustic VALUE Formula to determine the number of luminaires recommended:

Square feet / Acoustic VALUE = # of luminaires recommended

Example:

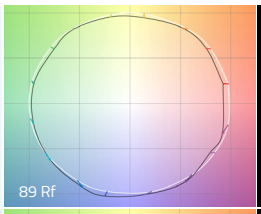
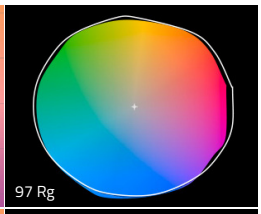
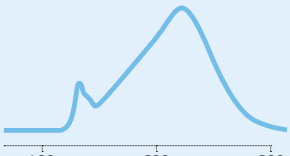
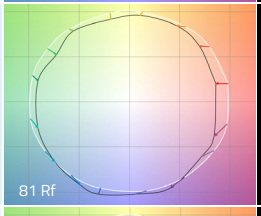
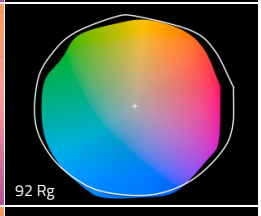
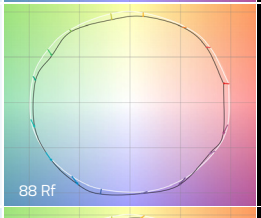
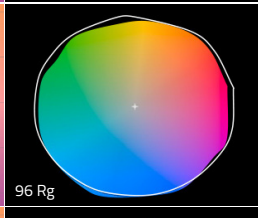
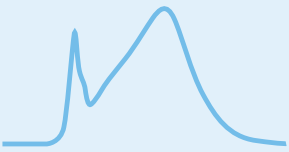
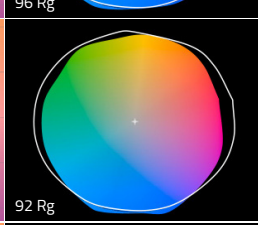
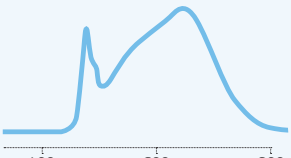
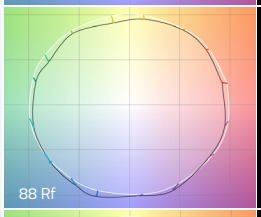
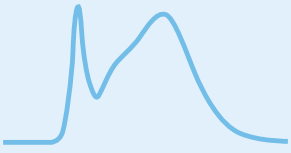
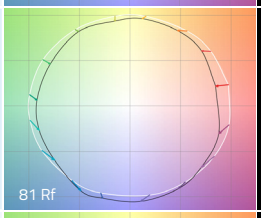
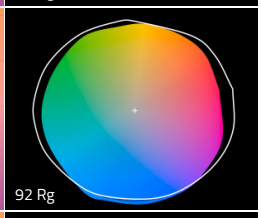
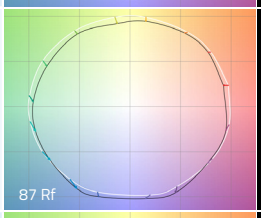
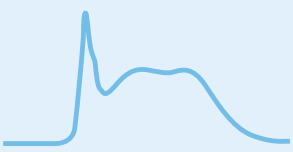
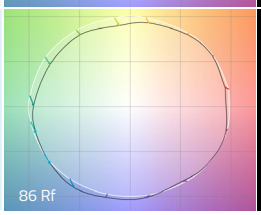
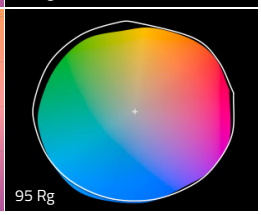
20′ x 30′ = **600** square feet

36″ BoltPro Square Acoustics seeking Better (~37.5% reduced reverb), Acoustic VALUE = **40**

600 / 40 = **15** BoltPro Square Acoustics recommended for the space

NOTE: We are testing BoltPro Acoustical fixtures. this data is from our Gaze Square Acoustical fixtures which should be comparable.

LM79 & TM30 DATA:

	MEASURED CCT	MEASURED LUMENS	CRI	R9	DuV	SPD	TM30 — COLOR VECTOR	TM30 — COLOR DISTORTION
LED27	2680	80%	93	58	0.001			
LED3	3042	95%	82	6	0.001			
LED3-90	3016	85%	93	61	0.000			
LED35	3482	100%	82	3	0.002			
LED35-90	3417	85%	93	67	0.000			
LED4	3952	102%	82	4	0.003			
LED4-90	3882	85%	92	67	0.003			
LED5-90	4889	85%	94	84	0.002			

SENSORS

205:
Wattstopper

Low voltage PIR fixture integrated occupancy sensor.

ENL:
Enlighted Occupancy / Daylight

Enlighted Network Integrated/embedded networked lighting control, luminaire-level lighting control, LLLC.

When configured as an IoT Node, the sensor streams comprehensive live data for use with Enlighted's real-time location and analytics software applications. This option is available directly from the factory or as a remote upgrade.

Wireless Internet.

LVOC:
Lutron Occupancy /Daylight Sensor

Measures light in the space (daylighting) while detecting people moving within an area using passive infrared to determine occupancy.

Controls the lights to balance the light level in the space, combining convenience, exceptional energy savings, and ease of installation.

LVRF:
Lutron Vive Control Node

Provides wireless control of the fixture when neither occupancy nor daylight sensing is needed.

NXSMP:
Hubbell Occupancy /Daylight Sensor

Hubbell Integrated/embedded networked lighting control, luminaire-level lighting control, LLLC.

PIR motion sensor for automatic
On/Off control.

Integrated daylight sensor for daylight harvesting and/or lumen maintenance.

Bluetooth radio provides wireless control of luminaire.

Simple plug-in connection to NX Fixture Modules.

Wireless Internet.

ATHENA

The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system.

The small size and compatibility with a wide variety of drivers allow for seamless integration with common commercial lighting fixtures from any manufacturer.

Requires drivers with auxiliary power, consult factory for lead times

NLT-AIR-rIO:
Daylight+Occ

The rIO is a fixture embedded low voltage wireless nLight AIR device
capable of individual fixture control and analog or digital dimming. This smart device results in the luminaire being "nLight AIR-enabled" —making it an addressable nLight AIR device. It uses a 900MHz radio to communicate with other nLight AIR devices, such as occupancy sensors, photocells, wall switches, powerpacks and other nLight AIR-enabled lumnaires. This allows for advanced operation and design flexibility ranging from stand-alone rooms to building and campus-wide networks.

NLT-AIR-ADCX:
Daylight+(PIR Acoustic) Occ

The nLight® AIR rES7 sensor is an in-fixture, low voltage, digital sensor providing embedded wireless lighting control, analog or digital dimming, occupancy detection and daylight harvesting capabilities.

The rES7 is designed for mounting heights up to 20 ft in indoor luminaries. The rES7 sensor provides Passive Infrared (PIR) occupancy detection over a 15-20 ft (4.57 - 6.10 m) radial coverage pattern and photocell light level detection in one compact low profile design with optional Dual Technology, which adds Microphonics™ to PIR detection. The rES7 sensor is ideal for occupancy and daylighting control in suspended or recessed luminaries.

NLT-WIRED-nIO:
Daylight+Occ

nLight digital nIO modules are low voltage control devices that enable digital control of LEDcode enabled eldoLED LED drivers. Through eldoLED's bi-directional 2-wire interface, these modules deliver natural, flicker-free high performance dimming while eliminating common issues related to 0-10 VDC alternatives. The modules also enable the eldoLED LED Drivers to be addressable, as well as capable of digitally communicating with other nLight controls such as occupancy sensors, photocells, and WallPods. This allows for advanced operation and design flexibility ranging from stand-alone rooms to building and campus-wide networks.

NLT-WIRED-ADCX:
Daylight+(PIR Acoustic) Occ

The nES 7 is a small passive infrared occupancy sensor designed to be easily embedded into luminaires. This sensor provides excellent line of sight 360° PIR detection of small motion and walking motion. The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion (e.g. corridors, library stacks). Additionally, an optional integrated photocell enables daylight harvesting control as well. Typically one or more nES 7 sensors are paired with an nLight controller within an nLight enabled luminaire.

For rooms like classrooms and private offices or any space with obstructions, the nES PDT 7 dual technology sensor is recommended.