

OPTICAL SYSTEM

1. OPTIMAL BATWING DISTRIBUTION

135 Degree Ultra-Wide Batwing Distribution Provides Even Illumination Across a Ceiling While Allowing for Maximum Spacing Between Fixtures

2. VERSATILE LIGHT ENGINE

Multiple Lumen Intensities Along With Various Up/Down Light Options to Provide the Correct Level of Illumination Within Each Space

3. HIGH EFFICIENCY LIGHT DIFFUSER

High Efficiency Diffuser Designed to Minimize Glare and Provide Uniform Light Distribution

HOUSING

4. HIDDEN CONNECT

Recessed Connection Point Between Cable and Fixture Eliminates the Visibility of Hardware

5. SURE-FIT ALIGNMENT

8-Point Alignment System Adjoining Each Luminaire Section to Ensure Straighter Rows While Minimizing the Appearance of Seams

ELECTRICAL

6. EFFICACY

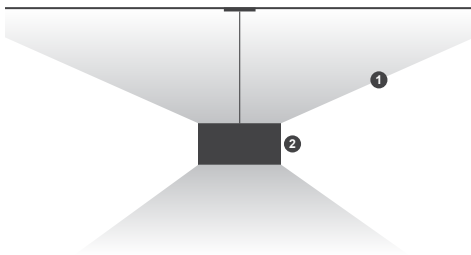
Luminaire Efficacy Ranging from 91.8 to 100.8 Lumens per Watt Helps Achieve Best in Class Power Density Performance

DIMMING

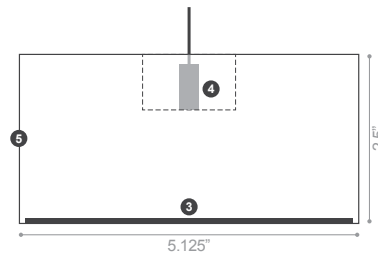
7. 0-10 VOLT DIMMING STANDARD

See Options Below for Additional Dimming Options

LIGHT DISTRIBUTION



CROSS-SECTION



SERIES	LENGTH ¹	OUTPUT ²	RATIO ³ U/D	VOLTAGE	CCT	MOUNTING	COLOR	DIMMING	
PL 5N	XXX FT 2' INCREMENTS EX: 4' = 004	H 1200 LM/FT	91 90/10	12 120V	30 3000K	AIRCRAFT CABLE 36" CABLE STANDARD	RIGID STEM⁶ 24" STEM STANDARD	W WHITE	0-10 0-10V DIMMING
		M 900 LM/FT	72 75/25	27 277V	35 3500K	T1 1" T GRID	RS RIGID STEM	S SILVER	0-10 IND⁷ INDEPENDENT U/D CONTROL
		L 600 LM/FT	64 60/40		40 4000K	T9 9/16" T GRID	RSS RIGID SWIVEL STEM	G CHARCOAL GREY	DALI DALI DIMMING
			55 50/50			SC SCREW SLOT GRID	DALI IND⁷ INDEPENDENT U/D CONTROL		
			46 40/60			HC HARD CEILING	ND NO DIMMING		
			27 25/75						

OPTIONS

¹Nominal length
²Nominal lumens per foot
³Ratio defined as percentage of light illuminated upwards versus percentage of light illuminated downwards
⁴80 CRI standard
⁵For cable lengths longer than 120" please consult factory
⁶All non-aircraft cable mounting requires adder-fee
⁷Does not include independent switching

SS-U/D SEPARATE SWITCHING UPWARD/DOWNWARD LINEAR ZONES	DS DAYLIGHT SENSOR	CB48 48" CABLES	RSS36 36" RIGID SWIVEL STEM
SS-A/B SEPARATE SWITCHING LINEAR ZONES	OS OCCUPANCY SENSOR	CB72 72" CABLES	RSS48 48" RIGID SWIVEL STEM
EM EMERGENCY BATTERY PACK	DOS DUAL DAYLIGHT & OCCUPANCY SENSOR	CB120 120" CABLES	RSS72 72" RIGID SWIVEL STEM
EC EMERGENCY CIRCUIT	SD SYMMETRICAL DOWN LIGHT	RS36 36" RIGID STEM	
NC NIGHT LIGHT CIRCUIT	FS FUSING	RS48 48" RIGID STEM	
GTD GENERATOR TRANS. DEVICE	C90 90 CRI	RS72 72" RIGID STEM	



MECHANICAL

Housing Construction:

Extruded Aluminum 6063-T5 alloy outer housing with die-formed steel internal components for strength, alignment and mounting attachment.

Alignment/Assembly:

The Sure-Fit alignment system employs a six-point alignment and attachment method, designed to create straighter rows and minimize seams between sections (field assembled). Four alignment tabs ensure the outer extruded aluminum rails are aligned, while four draw-screws secure housing-to-housing attachment.

Lengths:

The PL5N is available in individual 2-foot (24"), 4-foot (48"), 6-foot (72"), 8-foot (96") and 10-foot (120") lengths. Longer fixture rows are available and will be configured per Lumato factory specifications; typical rows are configured with 8-foot fixtures. Each end cap adds .0625" to the length of each fixture run. End Caps: End caps are fabricated from 16-gauge steel and finished to match housing. End caps are installed at factory with no exposed fasteners to ensure minimal visible seam.

Mounting Method/Hardware:

The Hidden-Connect design recesses all attachment hardware (hanging cable and power cord) below the top plane of the housing to enable a sleek, clean finished look. Standard hanging hardware includes 1/16" diameter, galvanized steel aircraft cable with adjustable and lockable nickel-plated cable grippers and a white 18/5 S.O. power cord. The standard hardware includes a 48" power cord and 42" aircraft cables to accommodate a 36" mounting distance from the ceiling. Longer hanging cables and power cords available as an option. Ceiling canopy provided. All Lumato suspension hardware is tested and listed to UL1598 requirements for loading/fixture support.

Exterior Finish:

The PL5N is available in White, Silver, or Charcoal Grey polyester powder coat finish to ensure durability. Luminaires are available in any RAL color as an option.

OPERATION

Light Engine:

The PL5N is available in 3000K, 3500K & 4000K CCT all within a 2.5-Step MacAdam Ellipse and has a standard CRI of 80+ with a 90+ CRI option available.

Directionality:

The PL5N is available in six different varieties of up/down lumen output ratios. Upward and downward light direction specified by percentages as follows (up/down): 90/10, 75/25, 60/40, 50/50, 40/60 & 25/75.

Lower Optics:

The edge lit PMMA acrylic light guide ensures high efficiency light output, in a minimal form factor. A secondary acrylic diffuser is added to create a clean, evenly illuminated lower surface with minimal glare.

Upper Optics:

The upper optics consist of an injection molded acrylic lens that provides a 135°, ultra-wide batwing distribution to produce a more evenly illuminated ceiling and wider spacing of luminaires.

Electrical:

Class 2 driver, 100 watt maximum output, 120-277VAC input. Power factor >0.9. THD <15%. Integral Surge Protection to 2KV.

Dimming:

The PL5N comes standard with 0-10V dimming. The 0-10V control allows dimming down to 10% (Dimming down to 1% is also an option; please consult factory). DALI dimming is available as an option and allows for dimming down to 1%. All protocols are available in synchronizing or independent up/down dimming control.

Optional Controls:

The PL5N is available with optional integrated daylight and occupancy sensors. Sensors extend the length of the luminaire and are located at the end of a row, near the power cord. Contact factory for custom locations.

GENERAL

Warranty:

Five (5) year limited warranty from date of shipment, covers LED's, driver, and luminaire. Optional accessories are covered by their individual Manufacturers warranties.

Lumen Maintenance:

Rated for 85% initial lumen output (L85) at 50,000 Hours of operation, operated at 25C ambient temperature; per TM-21 Guidelines published by the Illuminating Engineering Society (IES).

Certification

All Luminaires are UL and cUL Listed, approved for Dry/Damp locations

Angeled Connectors

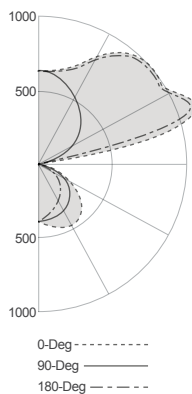
Angled luminaire connectors are available in "L", "T", and "X" configurations to achieve a variety of shapes. Consult factory for drawings and specifications

Made in the USA

All Lumato Luminaires and Components (with the exception of our LED boards and drivers) are proudly manufactured and assembled in the USA

PL5N-4-H-72-12-30-XX-X

Total Lumens: 4647
Ratio: 75% Up and 25% Down
Wattage: 46.9
Efficacy: 99.1 (Lumens Per Watt)
Report Number: ITL83383
Fixture Length: Four Feet

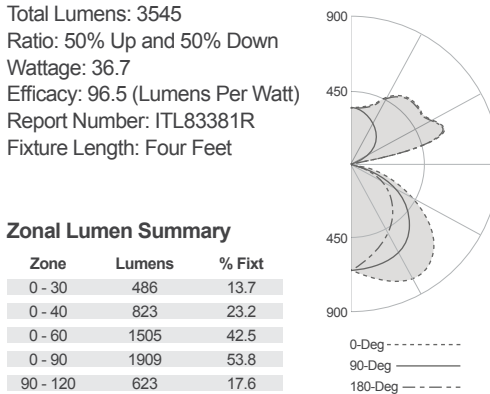


Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	318	6.8
0 - 40	539	11.6
0 - 60	983	21.2
0 - 90	1247	26.8
90 - 120	1291	27.8
90 - 130	1878	40.4
90 - 150	2851	61.3
90 - 180	3400	73.2
0 - 180	4647	100.0

PL5N-4-M-55-12-30-XX-X

Total Lumens: 3545
Ratio: 50% Up and 50% Down
Wattage: 36.7
Efficacy: 96.5 (Lumens Per Watt)
Report Number: ITL83381R
Fixture Length: Four Feet



Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	486	13.7
0 - 40	823	23.2
0 - 60	1505	42.5
0 - 90	1909	53.8
90 - 120	623	17.6
90 - 130	905	25.5
90 - 150	1373	38.7
90 - 180	1637	46.2
0 - 180	3545	100.0

PHOTOMETRICS

ENERGY CONSUMPTION

Watts Per Linear Foot

	H:1200	M:900	L:600
90/10	11.62	8.72	5.81
75/25	11.72	8.79	5.86
60/40	11.82	8.87	5.91
50/50	12.25	9.19	6.13
40/60	12.82	9.62	6.41
25/75	13.47	10.10	6.74