



DATE

**PROJECT** 

COMMENTS

CERTIFICATIONS













**GEO SERIES** COMBO SUSPENDED

**DIRECT & INDIRECT / DIRECT** 

AN EXTENSION OF OUR SLEK SERIES

FEATURES

The GEO Series provides specifiers with a creative lighting option to add depth and shape to a space. It combines the Slēk's true 1" aperture with exceptional performance, accurate color, powerful illumination with an elegant lens.

#### **CORNER JOINTS**

8 different base shapes created from 6 fully machined corner joints that provide excellent joint strength, eliminates light leak, and delivers fast and easy installation.

#### **PERFORMANCE**

Up to 152 LPW for indirect/direct and up to 117 LPW for direct at 90 CRI.

#### **VERSATILITY**

Direct and Indirect lumen intensity ranges from 200-1200 lm/ft in 3000K, 3500K and 4000K CCT provides specifiers with accurate and powerful levels of illumination and color within each space. For unlit pattern sections or custom outputs, specify CD in the DIRECT OUTPUT of the part number.

#### OPTICS

A seamless and elegant roll in lens for the direct illumination provides uniform light distribution, controls glare, and eliminates light leaks. The upper optics consist of an extruded lens that provides an ultra wide batwing distribution to produce a more evenly illuminated ceiling and wider spacing of luminaires.

#### **REMOTE POWER UNIT**

Easy to access wiring compartments. Designed to provide flexible, fast, and easy installation in multiple different mounting configurations.

CAMBLE BART WILLIAM	OFO ID ONE	0 1 11 1 11 11 00 1	IND / T4 NA/I I OOO
SAMPLE PART NUMBER:	GEO-ID-CMB	-C-HU-HD-30-L	JNV-11-WH-C90

CB144 144" Cables

Black Canopy & Cord

BC

ORDERING

SERIES	PATTERN	SIZE	UF	PPER OUTPUT	DIR	ECT OUTPUT	CCT	VOLTAGE	Ν	MOUNTING		COLOR
GEO-D Direct	CMB Combo	C¹ Custom	BLAN	NK = GEO-DIRECT	HD	1000 LM/FT	<b>30</b> 3000K	<b>UNV</b> 120-277V	T1	1" T-Grid	WH	White
GEO-ID Indirect/Direct			HU	1000 LM/FT	MD	750 LM/FT	<b>35</b> 3500K	<b>347</b> <sup>6</sup> 347V	Т9	9/16" T-Grid	BLK	Black
			MU	750 LM/FT	LD	500 LM/FT	<b>40</b> 4000K		SC	Screw Slot Grid	S	Silver
			LU	500 LM/FT	VLD:	<sup>3</sup> 250 LM/FT			НС	Hard Ceiling	GR	Charcoal Gray
			VLU <sup>3</sup>	250 LM/FT	SLD	<sup>4</sup> 125 LM/FT			JB	Junction Box	CCC5	Custom Corner Color
			SLU⁴	125 LM/FT	CD <sup>5</sup>	Custom CUSTOM OUTPUT						
			CU⁵	Custom		OR UNLIT SECTIONS						
												OPTIONS

CRI SUSPENSION<sup>2</sup> CIRCUITING EMERGENCY<sup>7</sup>

C90

C90 90 CRI BLANK = 48" CABLE BLANK = SINGLE CIRCUIT EM<sup>6</sup> Emergency Battery CEC LISTED

CB96 96" Cables SS-U/D Separate Switching UPLIGHT SWITCHED SEPARATELY FROM DIRECT LIGHT EC Emergency Circuit

#### ORDERING NOTES

- 1 Contact factory for custom shapes
- 2 For cable lengths longer than 144", consult factory. 3 VLU/VLD not available on 2 ft length.
- 4 SLU/SLD not available on 2 ft and 3 ft lengths.
- 5 Contact factory for available configurations, additional lead times, and adder.
- 6 EM not available with 347V.
- 7 Contact factory for Emergency Battery (EM) and Circuit (EC) options with patterns. Factory drawings approval required.

# DIRECT & INDIRECT / DIRECT



















# PHOTOMETRICS & ENERGY CHARTS

### GEO-D-CMB-XX-MD-35-UNV-XX-C90

Distribution: Direct Total Lumens: 3028

Ratio: 0% Up & 100% Down

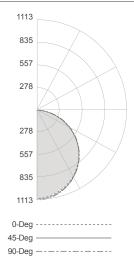
Wattage: 26.2 Efficacy: 116 LM/W Fixture Length: Four Feet

UGR: 25

4H X 8H Cross wise, Reflectance - Ceiling: 0.7, Wall: 0.5, Floor: 0.2

### **Zonal Lumen Summary**

Zone	Lumens	% Fixt
0 - 30	839	27.7%
0 - 40	1359	44.9%
0 - 60	2367	78.2%
0 - 90	3027	100%
90 - 180	0	0%
0 - 180	3028	100%



# Direct (Lambertian) Light at 90 CRI

	HD:1000	MD:750	LD:500	VLD:250	SLD:125
Watts/ft	8.8	6.6	4.4	2.3	1.1
Lumens/ft	980	757	514	269	124
LPW	110.9	115.6	115.8	117.6	112.7

# GEO-ID-CMB-XX-MU-MD-35-UNV-XX-C90

Distribution: Indirect/Direct
Total Lumens: 5877

Ratio: 50% Up & 50% Down

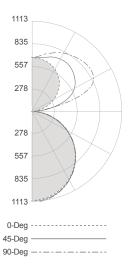
Wattage: 44.1 Efficacy: 133 LM/W Fixture Length: Four Feet

UGR: 28.9

4H X 8H Cross wise, Reflectance - Ceiling: 0.7, Wall: 0.5, Floor: 0.2

## **Zonal Lumen Summary**

Zone	Lumens	% Fixt
0 - 30	839	14.3%
0 - 40	1359	23.1%
0 - 60	2367	40.3%
0 - 90	3027	49.7%
90 - 120	793	13.5%
90 - 130	1317	22.4%
90 - 150	2256	38.4%
90 - 180	2849	48.5%
0 - 180	5877	100%



# Indirect (Batwing) / Direct (Lambertian) Light at 90 CRI

	HU-HD	HU-MD	HU-LD	HU-VLD	HU-SLD
Watts/ft	14.9	12.6	10.5	8.3	7.1
Lumens/ft	1948	1725	1482	1237	1092
LPW	131	137.1	141.6	148.8	153.2
	MU-HD	MU-MD	MU-LD	MU-VLD	MU-SLD
Watts/ft	<b>MU-HD</b> 13.3	<b>MU-MD</b> 11	<b>MU-LD</b> 8.9	<b>MU-VLD</b> 6.8	MU-SLD 5.6
Watts/ft Lumens/ft					
	13.3	11	8.9	6.8	5.6
Lumens/ft	13.3 1692	11 1469	8.9 1226	6.8 981	5.6 836

	LU-HD	LU-MD	LU-LD	LU-VLD	LU-SLD
Watts/ft	11.9	9.7	7.5	5.4	4.2
Lumens/ft	1470	1247	1004	759	614
LPW	123.1	129.3	133.2	140.9	146.3

	VLU-HD	VLU-MD	VLU-LD	VLU-VLD	VLU-SLD
Watts/ft	10.5	8.2	6.1	3.9	2.8
Lumens/ft	1231	1008	765	520	375
LPW	117.4	123	125.7	132.2	136.5

	SLU-HD	SLU-MD	SLU-LD	SLU-VLD	SLU-SLD
Watts/ft	9.7	7.4	5.3	3.1	1.9
Lumens/ft	1106	883	640	395	250
LPW	114.4	119.7	121.5	126.8	129.7

#### **DIRECT & INDIRECT / DIRECT**

















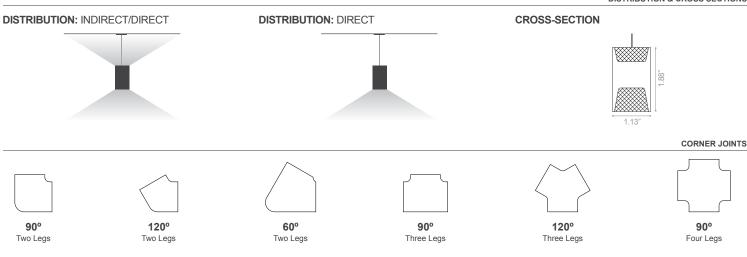






**DISTRIBUTION & CROSS SECTIONS** 

**SPECIFICATIONS** 



## **MECHANICAL**

#### **Housing Construction:**

Extruded aluminum 6063-T5 alloy outer housing and our high-quality diecast end caps are engineered to conceal all fasteners, and to retain the sealing gaskets on the inside of the fixture while completing the clean and minimalistic look of this luminaire.

## Mounting Method/Hardware:

Standard hanging hardware includes 1/16" diameter, galvanized steel aircraft cable with adjustable and lockable nickel-plated cable grippers at the luminaire. White or black 18/4 S.J.T. cord carries low voltage to luminaire. The standard hardware includes a 57" power cord and 60" aircraft cables to accommodate a 48" mounting distance from the ceiling. Ceiling canopy provided. All suspension hardware is tested and listed to UL1598 requirements for loading/fixture support.

#### Fixture Finish:

The GEO fixture finish is available in White, Black, Silver, or Charcoal Gray polyester powder coat finish to ensure durability. Exposed, direct trim surrounding acrylic lens to be painted specified finish. Luminaires are available in any RAL color as an option.

#### **Corner Joints:**

Fully machined aluminum corner joints with 2 mounting screws per fixture to provide strength. A sheet metal connector cover connects the multiple fixtures and hanging hardware together. This allows easy install and final wiring. Wiring is completed prior final corner joint is installed. Corner joint and sheet metal connector cover are joined with a 1/4-20 screw.

#### **OPERATION**

### **Remote Power Unit:**

Remote Power Unit powers only one luminaire at a time. In row configurations, one power unit is required for each luminaire. Easy to access wiring compartments for fast and easy installation. Line voltage and low voltage wire compartments.

Remote Box Mounting Configurations:

- · Above T-Grid with supplied clips
- Decorative surface mount on hard sheet rock construction
- Recessed in hard sheet rock construction (IC Rated)
- · J-Box Mounted

## **Light Engine:**

The GEO is available in 3000K, 3500K, and 4000K CCT all within a 3-Step MacAdam Ellipse and has a standard CRI of 90+.

#### **Lower Optics:**

Our frosted acrylic roll in lens is designed to maximize efficiency while minimizing glare and eliminating light leak at fixture joints. Fixtures come with lens installed.

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

## Electrical:

Electrical connections at fixture are preinstalled with low voltage wiring. Class 2 programmable (factory pre-set) premium power supply, 120-277VAC or 347V input. Power factor >0.9 THD<15%. Integral Surge Protection to 2KV.

**Dimming:** The GEO comes standard with 0-10V dimming to 1%.

Emergency Battery Pack:
Emergency Battery Pack has been engineered to exceed UL minimum safety standards. Standard battery is CEC Listed. For most fixtures, the entire direct portion of the fixture will be illuminated by the EM Battery Pack.

#### **Emergency Circuit:**

Emergency Circuit fixtures are engineered so that the entire direct illumination is wired to the emergency circuit.

# **GENERAL**

### Warranty:

Ten (10) 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 90,000 hours of operation, operated at 25°C ambient temperatures; per TM-21 Guidelines published by the Illuminated Engineering Society (IES).

#### Certification:

All luminaires are UL/cUL Listed to UL 1598 Standards and approved for Indoor use in Dry/Damp Locations.

Remote Box Driver may be IC rated as an option. Contact Lumato for more information.

#### Manufactured 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. All luminaires are UL/cUL Listed to UL 1598 Standards and approved for Indoor use in Dry/Damp Locations.

# Shipping:

6-week lead-time for orders up to 1000 linear feet.

Lead-time for orders greater than 1000 linear feet will be determined at time of order.

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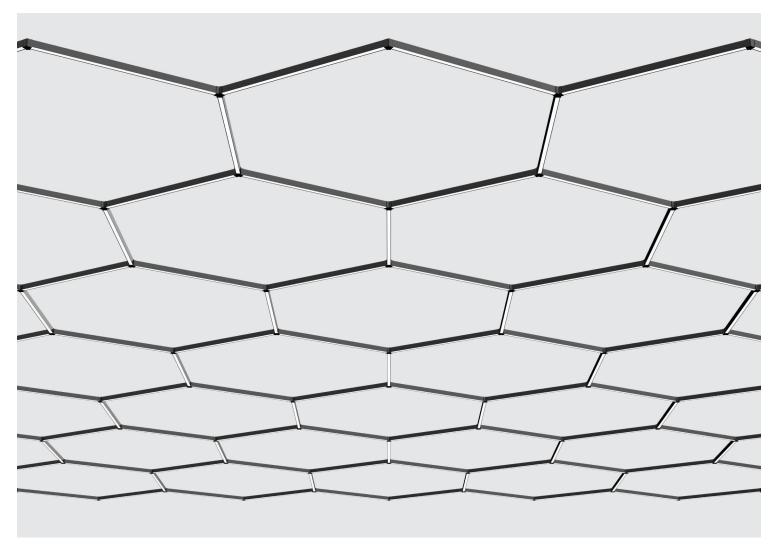


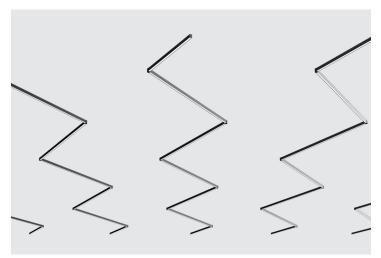






PRODUCT IMAGERY







# DIRECT & INDIRECT / DIRECT























CUSTOMIZED COMBOS

NOTE: 1 Square = 1 Foot