



DATE

PROJECT

COMMENTS

CERTIFICATIONS



GEO SPK4 SUSPENDED

DIRECT & INDIRECT / DIRECT

AN EXTENSION OF OUR SLĚK SERIES

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

APPLICATIONS

- Open Offices
- Cafeterias
- Vestibules
- Combine with Square and Rectangle in the space

CORNER JOINTS

Fully machined corner joint that provides 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.

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.

SAMPLE PART NUMBER: GEO-ID-SPK4-3-HU-HD-30-UNV-T1-WH-C90

ORDERING

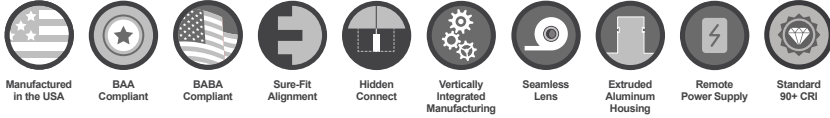
SERIES	PATTERN	UPPER OUTPUT	DIRECT OUTPUT	CCT	VOLTAGE	MOUNTING	COLOR
GEO-D Direct	SPK4-2 2' Leg Length	BLANK = GEO-DIRECT	HD 1000 LM/FT	30 3000K	UNV 120-277V	T1 1" T-Grid	WH White
GEO-ID Indirect/Direct	SPK4-3 3' Leg Length	HU 1000 LM/FT	MD 750 LM/FT	35 3500K	347' 347V	T9 9/16" T-Grid	BLK Black
	SPK4-4 4' Leg Length	MU 750 LM/FT	LD 500 LM/FT	40 4000K		SC Screw Slot Grid	S Silver
	C ⁵ Custom	LU 500 LM/FT	VLD ³ 250 LM/FT			HC Hard Ceiling	GR Charcoal Gray
		VLU ³ 250 LM/FT	SLD ⁴ 125 LM/FT			JB Junction Box	CCC ⁵ Custom Corner Color
		SLU ⁴ 125 LM/FT	CD ⁵ Custom				
		CU ⁵ Custom					

OPTIONS

CRI	SUSPENSION ²	CIRCUITING	EMERGENCY ⁶	ORDERING NOTES
C90				1 EM not available with 347V.
C90 90 CRI	BLANK = 48" Cables	BLANK = SINGLE CIRCUIT	EM ¹ Emergency Battery CEC LISTED	2 For cable lengths longer than 144", consult factory.
	CB96 96" Cables	SS-U/D Separate Switching UPLIGHT SWITCHED SEPARATELY FROM DIRECT LIGHT	EC Emergency Circuit	3 VLU/VLD not available on 2 ft length.
	CB144 144" Cables			4 SLU/SLD not available on 2 ft and 3 ft lengths.
	BC Black Canopy & Cord			5 Contact factory for available configurations, additional lead times, and adder
				6 Contact factory for Emergency Battery (EM) and Circuit (EC) options with patterns. Factory drawings approval required.

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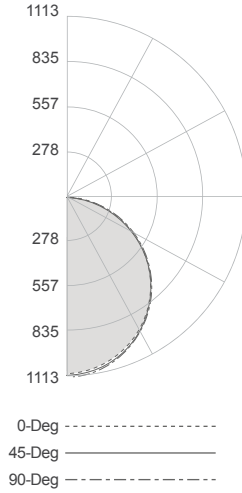
PHOTOMETRICS & ENERGY CHARTS

GEO-D-SPK4-4-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

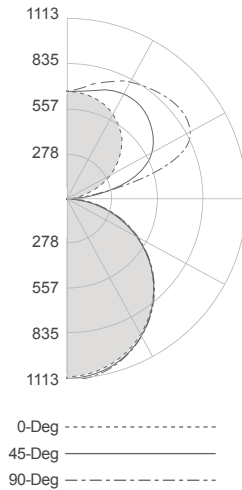
	HD:1000	MD:750	LD:500	VLD:250	SLD:125
Watts/ft	8.8	6.6	4.4	2.3	1.1
Lumens/ft	980	757	514	269	124
LPW	110.9	115.6	115.8	117.6	112.7

GEO-ID-SPK4-4-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

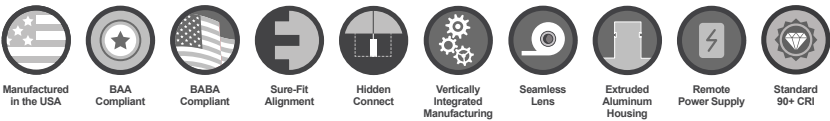
	MU-HD	MU-MD	MU-LD	MU-VLD	MU-SLD
Watts/ft	13.3	11	8.9	6.8	5.6
Lumens/ft	1692	1469	1226	981	836
LPW	127	133.2	137.5	145	149.8

	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

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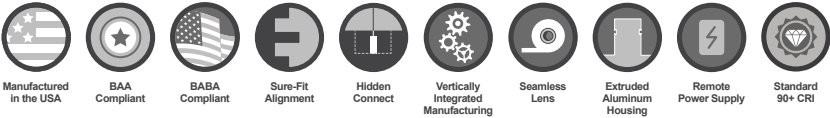
DISTRIBUTION: INDIRECT/DIRECT, DISTRIBUTION: DIRECT, CROSS-SECTION, CORNER JOINT

Diagram of a cross-section showing diameter and leg length. Product Dimensions table with columns: ORDERING, DIAMETER, LEG LENGTH. Rows for SPK4-2, SPK4-3, SPK4-4.

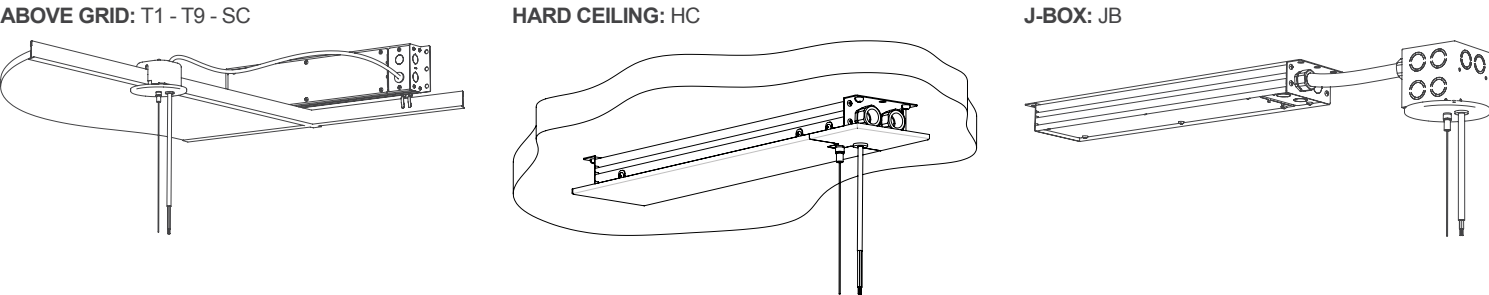
Diagram of a cross-section showing leg 1 length, leg 2 length, leg 3 length, leg 4 length. STANDARD SHAPE - CUSTOMIZED LENGTHS table with columns: SHAPE, LEG 1 LENGTH, LEG 2 LENGTH, LEG 3 LENGTH, LEG 4 LENGTH. Row for SPK4-C Spoke 4 Custom. CUSTOMIZED LENGTH NOTES.

Diagram of a cross-section showing center mounting point, overall #1, 4x mounting center #1. ORDER GUIDE table with columns: SIZE/DISTRIBUTION, SPK4-2, SPK4-3, SPK4-4. Rows for MOUNTING CENTER #1, OVERALL #1.

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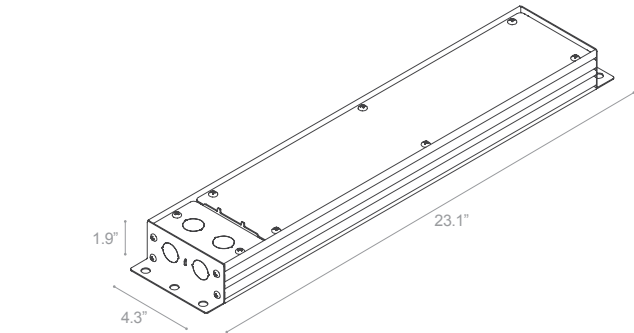


REMOTE DRIVER MOUNTING OPTIONS: DETERMINED BY MOUNTING TYPE



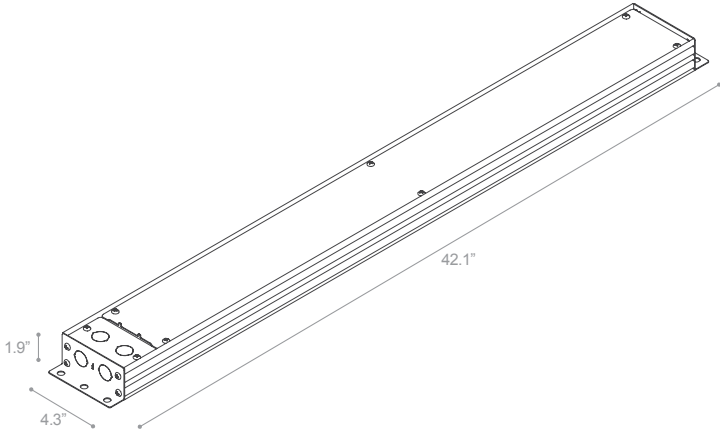
REMOTE DRIVER DETAILS

SHORT REMOTE POWER UNIT



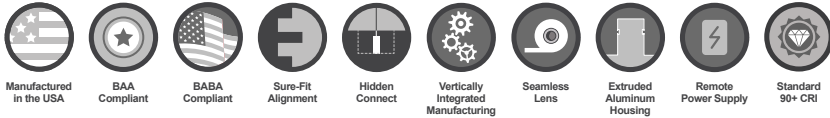
	SHORT REMOTE POWER UNIT	LONG REMOTE POWER UNIT
DISTRIBUTION		
Indirect/Direct (SLK-ID)	X	X
Direct (SLK-D)	X	X
MOUNTING		
Hard Ceiling	X	X
Grid (T1 - T9 - SC)	X	X
J-Box	X	X
ADD-ON OPTIONS		
Separate Switching (SS-U/D)	X	X
Emergency Battery Pack (EM)		X
Emergency Circuit (EC)	X	X
IC RATED		
Approved		X

LONG REMOTE POWER UNIT



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SPECIFICATIONS

MECHANICAL

Housing Construction:

Extruded aluminum 6063-T5 alloy outer housing and our high-quality die-cast 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.

Upper Optics:

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.