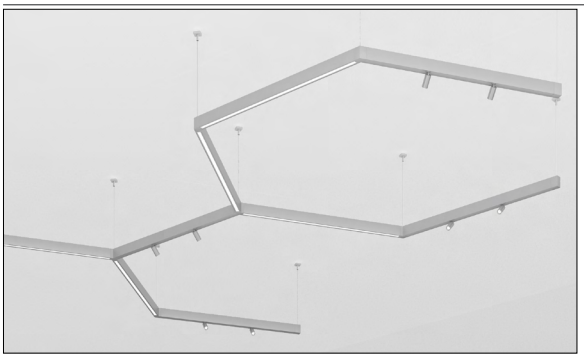
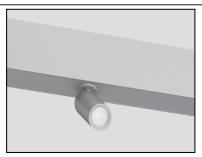
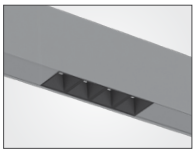
Stencil® Pendant | PENDANT FORMS - COMBINED DISTRIBUTIONS



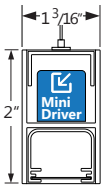


Accent regular shown

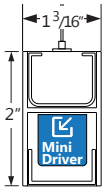


MikroLite 1.0 shown

Direct Lens



Indirect
Indirect Asymmetric



See page 6 for Accent section views

Project _____

Type _____

Notes _____

Use STENCIL SOFTZONE spec sheet ordering code to specify Stencil with SOFTZONE PANELS.

A configuration drawing is required

Factory is available for assistance

See page 2 for example of how to specify

SoftZone Horizontal | SurroundLite™ | cULus Listed | Control Sensors | 5 Year Limited Warranty

Ordering Guide

STFC											
PRODUCT ID		**TOTAL LENGTH & NOM. LUMENS/FT - INDIRECT**				**TOTAL LENGTH & NOM. LUMENS/FT - DIRECT**					**TOTAL LENGTH - BLANK (OPT.)**	
STFC	Stencil Pendant Combined Forms	**+SLI(length, lumen)**	SurroundLite indirect	**175**	175 lm/ft	**+DSO(length, lumen)**	direct spotless lens	**200**	200 lm/ft	**SO lens option only**	**BK(L)**	blank
		+SLIA(length, lumen)	SurroundLite indirect asy.	**250**	250 lm/ft	**+DMLBK(length, lumen)**	direct micro louver black*	**300**	300 lm/ft			
		NI	no indirect	**350**	350 lm/ft	**+DMLG(length, lumen)**	direct micro louver grey*	**400**	400 lm/ft			
				500	500 lm/ft	**ND**	no direct	**150**	150 lm/ft	**micro louver option only**		
				700	700 lm/ft			**225**	225 lm/ft			
				1000	1000 lm/ft			**300**	300 lm/ft			
								450	450 lm/ft			
								600	600 lm/ft			
		Lit segments are available in 1' increments. Segment length from 2' to 8' continuous.				Lit segments are available in 1' increments. Segment length from 2' to 8' continuous. * Micro louver recommended at outputs over 500 lm/ft. Louver comes in grey finish only.					Available in any length; min 7", max 8'.	

HUB QUANTITY				**HUB QUANTITY (OPT.)**		**CRI**		**COLOR TEMP.**		**FINISH**		**VOLTAGE**	
SERIES A		**SERIES B**		**SERIES S**									
AL(#)	L Hub (90°)	**BT(#)**	Triangle Hub (60°)	**SLH(#)**	L Hub Horizontal (90°)	**80**	80 CRI	**27**	2700 K	**AP**	aluminum paint	**120**	120 V
+AT(#)	T Hub (90°)	**+BX(#)**	X Hub (120°)	**SLV(#)**	L Hub Vertical (90°)	**90**	90 CRI	**30**	3000 K	**W**	white	**277**	277 V
+AX(#)	X Hub (90°)	**+BH(#)**	Hex Hub (120°)					**35**	3500 K	**BLK**	black	**347**	347 V*
+AY(#)	Y Hub (120°)	**+BYN(#)**	Negative Y Hub (60°/120°)					**40**	4000 K	**C**	custom	**UNV**	universal
+AYB(#)	Y Hub (135°)	**+BYP(#)**	Positive Y Hub (120°/60°)									**DC**	low voltage**
+AH(#)	Hex Hub (120°)												
+AG(#)	Octagon Hub (135°)												
+AI(#)	Inline Hub (180°)												
Consult factory for compatibility when mixing series A & B.				Compatible with both hub series A & B See pages 4-5 for more details		Applies to both Up and Down		Applies to both Up and Down				* Consult factory ** Only available with POE drivers.	

DRIVER		**CIRCUITS**		**MOUNTING/SUSPENSION**		**CANOPY**		**BATTERY - REMOTE (OPT.)**		**CUSTOM (OPT.)**	
DP	integral driver 0-10V dimming (1%)*	**1**	1 circuit	**CA(#)**	drywall+cable length (36" std.)	**RC**	round canopy	**B(#)**	remote battery pack	**C**	custom
POE(#)	POE drivers**	**2**	2 circuits	**CT9(#)**	TB/TG 9/16+cable length (36" std.)	**SC**	square canopy				
		3	3 circuits	**CT15(#)**	TB/TG15/16+cable length (36" std.)						
		+E(#)	emergency circuit *	**CTS(#)**	screw slot+cable length (36" std.)						
		+NL(#)	night light circuit	**CASL(#)**	drywall cable sloped ceiling						
				SASL(#)	drywall stem sloped ceiling						
* Only integral 0-10V DP driver available ** Specify system		* Specify quantity		See Mounting kit guide for full specification code. Specify length		White canopy standard		Remote only Not available with 347V Please consult factory		Please specify	

Ordering Guide - MikroLite and Accent (Optional)

*** For Accent only, specify the total blank length. Specify ND for total direct & NI for total indirect length.**

MKL (#, Beam Angle, Finish)						**AC (#, Option, Beam, Finish)**							
MIKROLITE MODULE QTY		**BEAM ANGLES**		**CELL FINISH**		**ACCENT QUANTITY**		**ACCENT OPTION**		**BEAM**		**ACCENT FINISH**	
#	MikroLite module quantity	**MKL35**	**35 deg**	**GR**	gray	**#**	accent quantity	**R**	regular	**AC20**	20 deg	**AP**	aluminum paint
		MKL20	**20deg**	**BLK**	black					**AC35**	35 deg	**W**	white
												BLK	black
1 module contains 4 MikroLites; Module length is 4". Minimum length for Mikrolite option is 3'. Minimum distance from edge 3". 500 lm/module See page 6 for more information.						500 lumens per accent with 0-10 dimming (1%) Only 1 accent per 2ft segments* For segments* over 2ft, min. spacing between accents is 4" *A segment is the linear space between 2 hubs. See page 6 for more information.		See page 6 for more information. Not available on Hub.					

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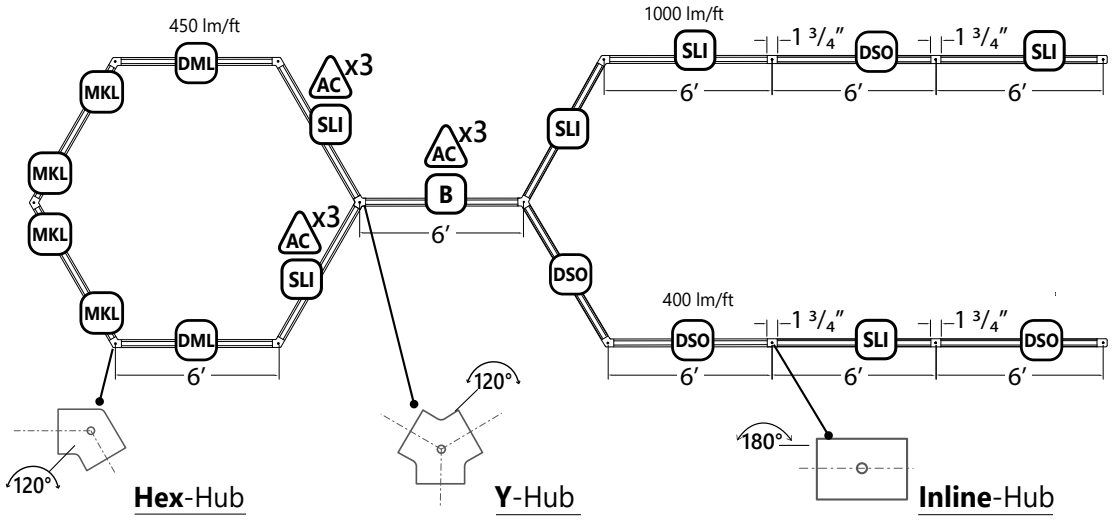
How to Specify Total Linear Length, Distributions & Hubs

Example

DSO Direct lens | DMLG Direct louver grey | SLI SurroundLite Indirect | SLIA SurroundLite Indirect Asymmetric | MKL MikroLite | B Blank | AC Accent



1. Specify Total Length - Indirect

SLI(36,1000)
TOTAL LENGTH* & NOM. LUMENS/FT - INDIRECT SURROUNDLITE

SLI

2. Specify Total Length - Direct

DSO(24,400)+DMLG(12,450)
TOTAL LENGTH* & NOM. LUMENS/FT - DIRECT

DSO DML

direct spotless lens | direct micro louver grey
DSO(24,400) + DMLG(12,450)
24' 400 lm/ft | 12' 450 lm/ft

3. Specify Total Length - Blank

BK(6)
TOTAL LENGTH** - BLANK

B

4. Specify Hub Quantity

AH(7)+AY(2)+AI(4)
HUB QTY***

Hex-Hub | Y-Hub | Inline-Hub

5. Specify MikroLite Module (if necessary)

MKL(4,MKL35,BLK)
MIKROLITE (OPT.)

MKL

mikrolite | black finish
MKL(4,MKL35,BLK)
Qty. 4 | 35 deg

6. Specify Accent Quantity (if necessary)

AC (9,R,AC20,AP)
ACCENT (OPT.)

AC

accent | regular | aluminum paint finish
AC (9,R,AC20,AP)
Qty. 9 | 20 deg

- **Accent provided on blank section by default (min length 2').**
- **Also compatible with indirect segments (min length 4').**

*Segment length from 2' to 8' continuous in one foot increments. Specify total linear length of each distribution.
**Blank segments: available in any length; min 7", max 8'.
***Specify total quantity of Hubs.

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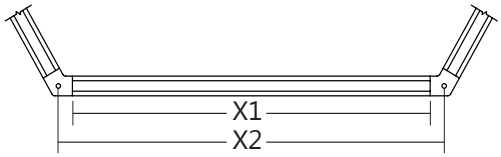
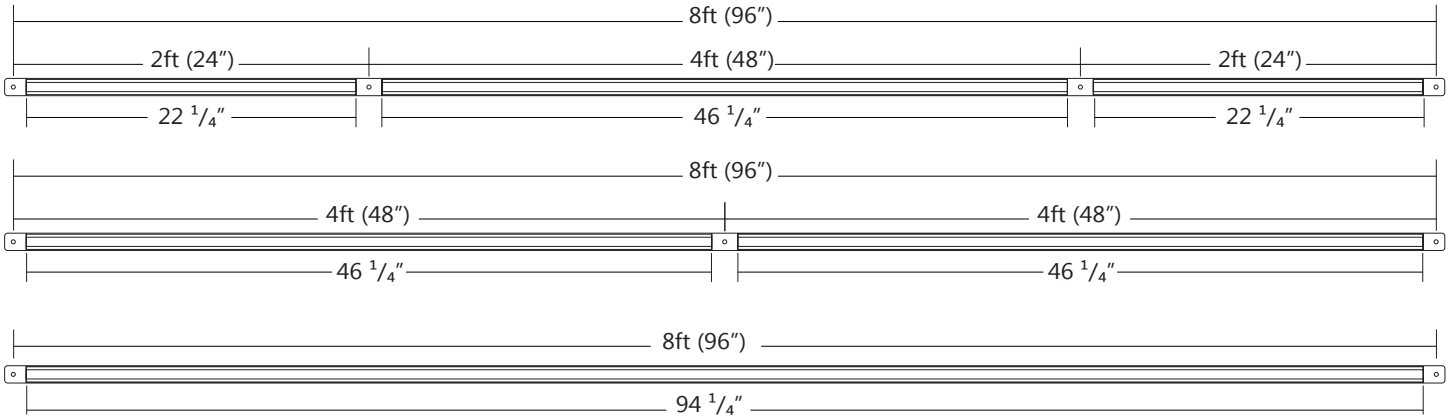
SEGMENT LENGTHS AND MOUNTING POINTS

Segment length X1			Mounting points X2			
			A Hubs		B Hubs	
Feet	Inches	mm	Inches	mm	Inches	mm
2	22.250	565	24.000	610	25.125	640
3	35.125	895	36.875	940	35.125	890
4	46.250	1175	48.000	1220	46.250	1175
5	57.375	1460	59.125	1500	57.375	1455
6	70.250	1785	72.000	1830	70.250	1785
7	81.375	2065	83.125	2110	81.375	2065
8	94.250	2395	96.000	2440	94.250	2395

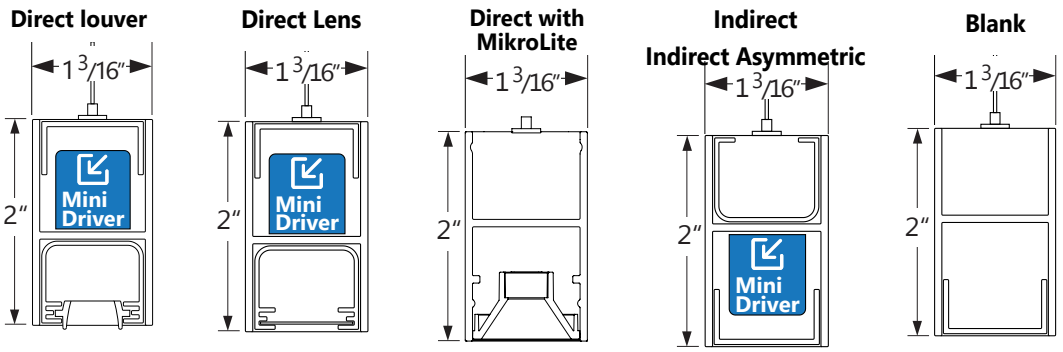


X1 - Segment length
X2 - Mounting points



Segment length from 2' to 8' continuous.
Lengths above 8' will require Inline Hub.
Available in 1' increments.

SECTION VIEWS



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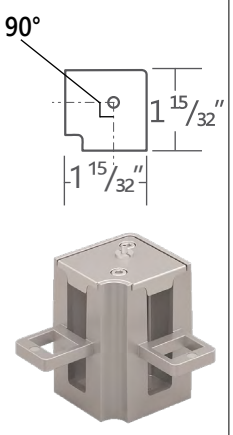
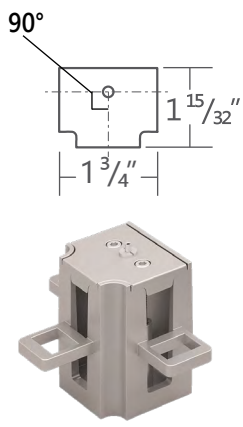
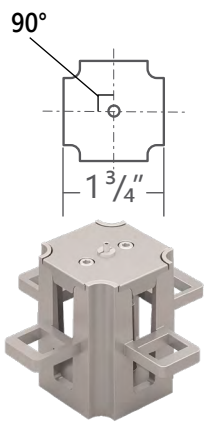
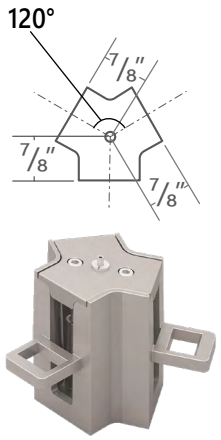
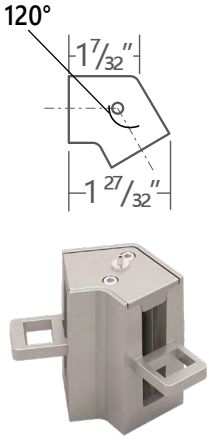
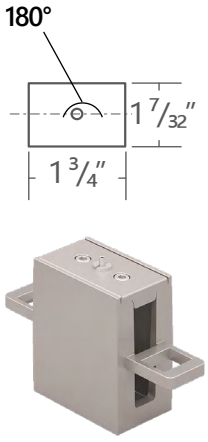
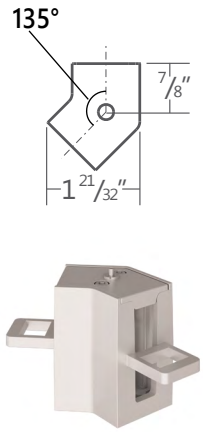
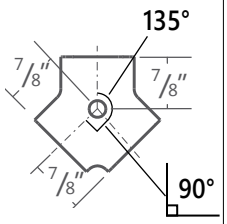
● HUB SERIES A

Patent-pending system combining mechanical, electrical and suspension functions. Non-illuminated lighting segment connectors:

L-Hub (90°), **T**-Hub (90°), **X**-Hub (90°), **Y**-Hub (120°), **Hex**-Hub (120°), **Inline**-Hub (180°), **Octagon**-Hub (135°) and Y-Hub (90°/135°).

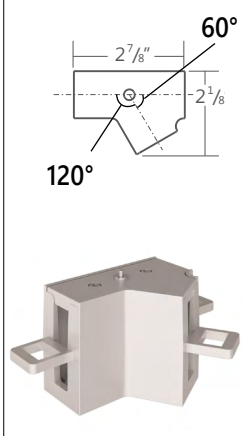
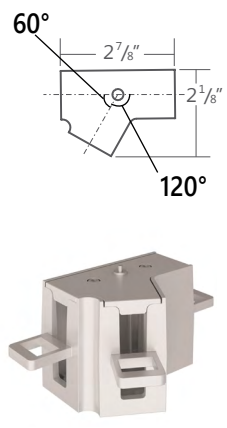
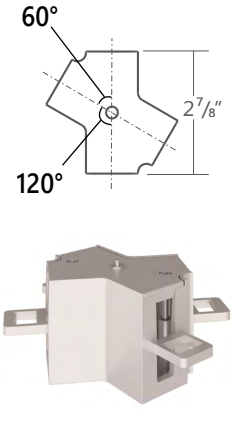
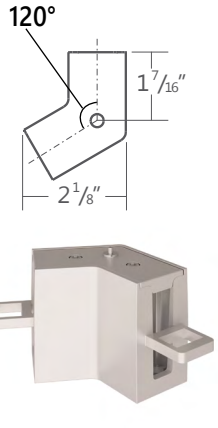
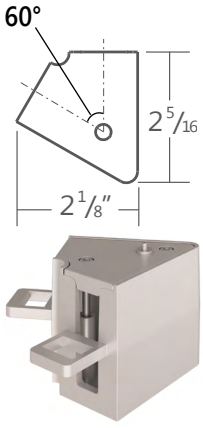
L-Hub	**T**-Hub	**X**-Hub	**Y**-Hub-120	**Hex**-Hub	**Inline** -Hub
					

Octagon-Hub	**Y**-Hub-135
	

● HUB SERIES B

Patent-pending system combining mechanical, electrical and suspension functions. Non-illuminated lighting segment connectors:

Positive-**Y**-Hub (120°/ 60°), Negative-**Y**-Hub (60°/120°), **X**-Hub (60°/120°), **Hex**-Hub (120°), and **Triangle**-Hub (60°).

Positive-**Y**-Hub	Negative-**Y**-Hub	**X**-Hub-120	**Hex**-Hub	**Triangle**-Hub
				

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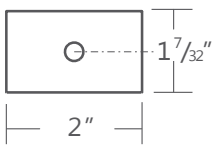
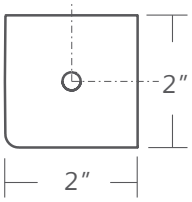
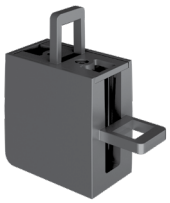
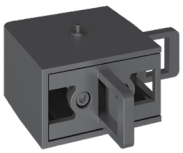
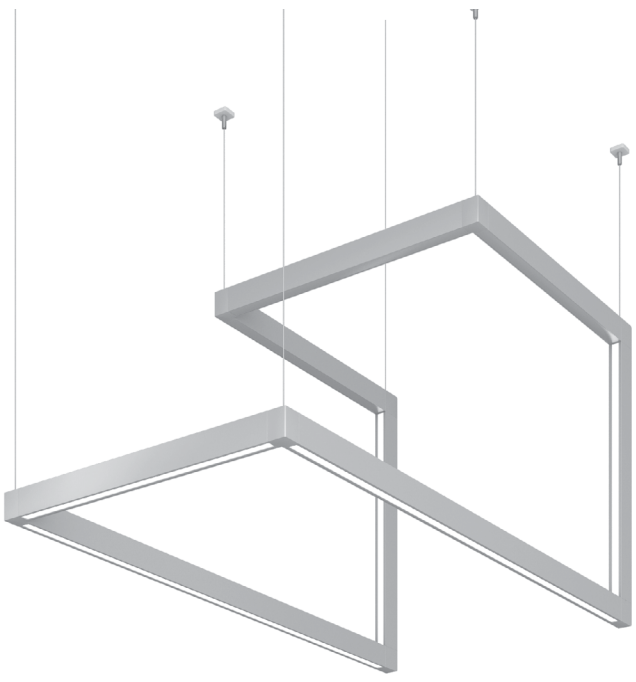
● HUB SERIES S

Patent-pending system combining mechanical, electrical and suspension functions. Non-illuminated lighting segment connectors:

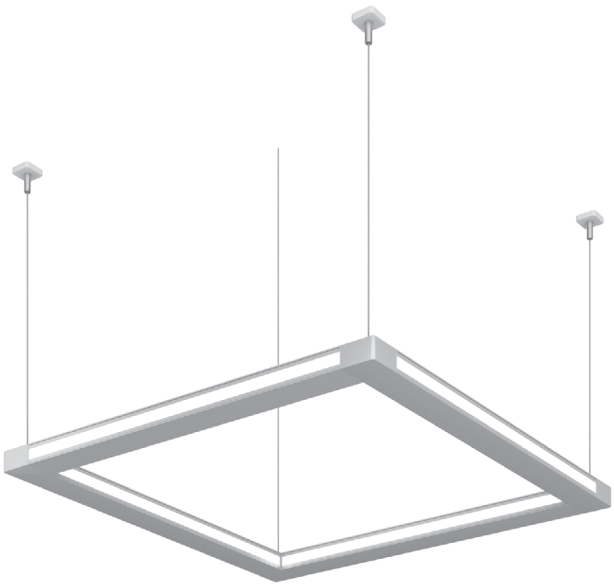
L-Hub Vertical (90°) and **L**-Hub Horizontal (90°).

SLV-Hub	**SLH**-Hub
	
	
L-Hub Vertical	**L**-Hub Horizontal

Stencil Spatial Images



Stencil Vertical



Stencil Horizontal

For **Hub series S** please provide top view as well as 3D view with light direction.

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LED SYSTEM

CRI	Minimum 80 or 90 color rendering index
CCT	Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3.0–step MacAdam ellipse).
LED life	Minimum 50,000h with 85% of lumen maintenance in 25^{0}C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.
Performance	Up to 101 lm/W.

CONSTRUCTION

Housing	Extruded aluminum (0.070'' nominal)
End Cap+Joiner	Die cast aluminum
Reflectors	Extruded acrylic
Suspension	1 mm Aircraft Cable
Cable Grips	Quick Connecting / Release

ELECTRICAL

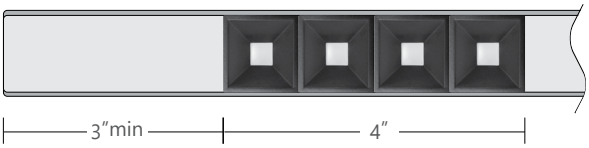
DP driver	STENCIL features integral driver technology. 0-10V 1% dimming standard. The integral driver is the only driver available.
Power over Ethernet POE drivers* (consult factory for more information) UL2108 certified for integral or remote driver	MOLEX IGOR SMARTENGINE **O** - Other (Consult factory)
Emergency	Remote emergency battery pack or emergency circuit optional.
Input Voltage	120V, 277V, UNV, 347V

Incorporating these components may have limitations or affect the length of the luminaire, please contact factory for more details.

WARRANTY

Axis Lighting will warrant defective LEDs, boards, and drivers for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specifications. If defective, Axis will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Axis.

STENCIL PENDANT WITH MIKROLITE 1.0



1 module contains 4 Mikrolites

APPROVALS

Certified to UL and CSA standards.
Suitable for damp locations.

STENCIL SEGMENTS

Stencil lit segments are available in lengths of 2' to 8' in one foot increments. Unlit blank segments are available in any length from 7" to 8'. Segments exceeding 8' in length are comprised of a combination of lengths to be assembled on site with an Inline Hub. Minimum blank segment length for one Accent is 2'. Minimum segment length for Accent and Indirect is 4'.
For more information on systems and joining, please refer to the Stencil installation sheets available for download at www.axislighting.com.

LIGHT GUIDE

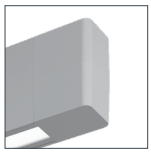
High precision light guide made of PMMA material, allows distribution of controlled light in all 3-dimensions to put light on both vertical and horizontal planes within the space. Patented lightguide design featuring molecular optics and precision-coupled optic components yield a high efficiency luminaire. In-plane mixing maximizes color uniformity while light emitting area is uniform and diffuse without 'head lighting' from the LED's.

FINISH

Powder coated and custom finishes are also available.

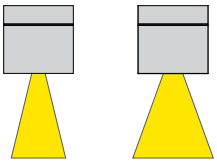
END CAPS

Stencil Forms include Hub end caps.

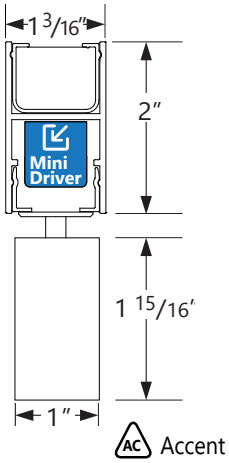


Hub End Cap

ACCENT BEAM SPREADS



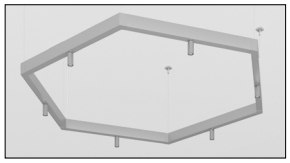
STENCIL WITH ACCENT CONFIGURATION AND SECTION VIEW



ACCENT EFFICACY

3 Accents / Driver	120V, 21W, 0.18A; 277V, 21.5W, 0.10A.
6 Accents / Driver	120V, 8W, 0.12A; 277V, 8.4W, 0.06A.

NOTE: Configuration of multiple accents with different drivers will change efficacy values.



ACCENT OPTIONS

Regular shown

Accent positioned on segment

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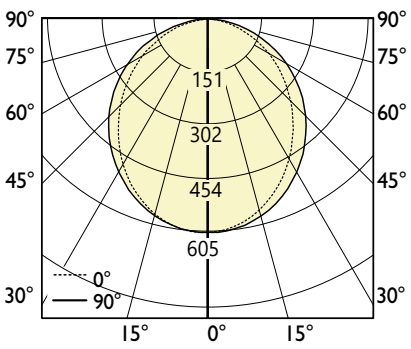
● *PHOTOMETRIC DATA - DIRECT*

400 lm/ft - SO lens

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	604	604	604	604	604
5	597	597	599	600	601
15	558	560	567	573	576
25	494	499	512	524	529
35	415	422	441	458	466
45	329	337	360	380	390
55	241	249	273	294	303
65	154	161	182	202	209
75	72	78	91	106	112
85	11	13	17	23	25
90	0	0	0	1	0

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	57
10-20	161
20-30	239
30-40	281
40-50	285
50-60	253
60-70	190
70-80	106
80-90	27
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	41858	45837	49617
55	37812	42873	47624
65	32769	38735	44638
75	25073	31762	39068
85	11103	17519	25974

Direct Output: 400 lm/ft
Total Lumens: 1600 lm (for 4ft)
Input Watts: 16 W
Efficacy: 100 lm/W

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.
IES FILE: STD-SO-400-80-35-4.ies
TESTED ACCORDING TO IES LM-79-2008

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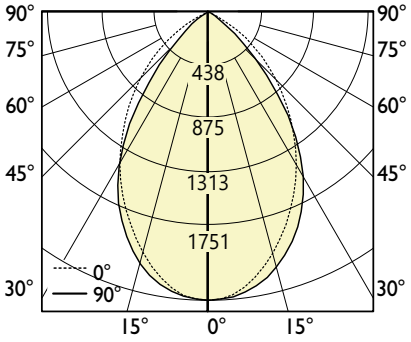
600 lm/ft - MLBK micro louver black

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1751	1751	1751	1751	1751
5	1724	1727	1728	1733	1736
15	1517	1523	1555	1593	1603
25	1228	1238	1260	1303	1338
35	907	910	908	906	925
45	584	579	530	419	397
55	278	270	173	98	89
65	13	20	13	3	3
75	2	1	1	1	1
85	1	0	0	0	0
90	0	0	0	0	0

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	163
10-20	435
20-30	577
30-40	553
40-50	378
50-60	165
60-70	24
70-80	1
80-90	1
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	65400	59286	44472
55	38311	23813	12303
65	2460	2512	518
75	651	257	263
85	519	294	262

Direct Output: 600 lm/ft
Total Lumens: 2297 lm (for 4ft)
Input Watts: 44.1 W
Efficacy: 52 lm/W

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.
IES FILE: STD-4-MLBK-600-80-35.ies
TESTED ACCORDING TO IES LM-79-2008

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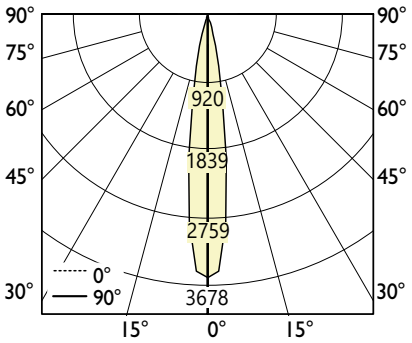
● *PHOTOMETRIC DATA - ACCENTS*

Accent 20 degree

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	3605	3605	3605	3605	3605
5	2668	2516	1376	2760	2863
15	398	366	183	405	422
25	50	48	23	57	53
35	12	11	5	12	12
45	6	6	3	6	6
55	4	4	2	4	4
65	3	3	1	3	3
75	1	1	0	1	1
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	211
10-20	131
20-30	29
30-40	8
40-50	4
50-60	4
60-70	3
70-80	1
80-90	0
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	16184	7724	16550
55	14208	6951	14208
65	12306	6360	13742
75	5358	3013	6027
85	1986	1005	5958

Total Lumens: 391 lm (for 1 accent)
Input Watts: 7.9 W
Efficacy: 49 lm/W

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.
IES FILE: Stencil-AC-D20(A17399G-20 DG).IES
TESTED ACCORDING TO IES LM-79-2008

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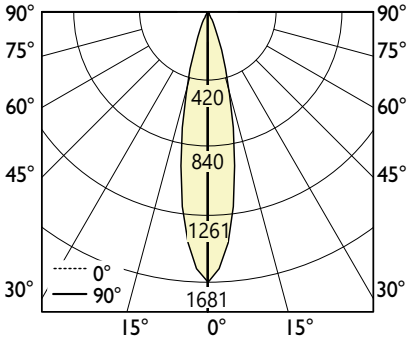
Accent 35 degree

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1681	1681	1681	1681	1681
5	1442	1453	1453	1455	1453
15	527	518	518	512	506
25	110	109	112	108	105
35	25	25	25	25	24
45	9	9	9	9	9
55	5	5	5	5	5
65	3	3	3	3	3
75	1	1	1	1	1
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	123
10-20	145
20-30	55
30-40	17
40-50	7
50-60	5
60-70	3
70-80	1
80-90	0
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	30812	31571	30121
55	21803	22482	21803
65	15718	15604	16184
75	4908	4908	5289
85	2236	1684	2236

Total Lumens: 355 lm (for 1 accent)
Input Watts: 6.8 W
Efficacy: 52 lm/W

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.
IES FILE: Stencil-AC-D35(A18322G-35 DG).IES
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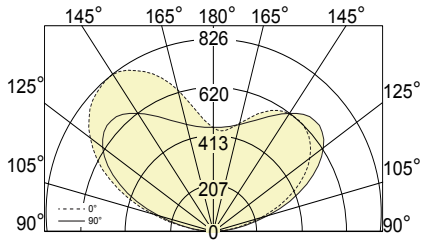
● *PHOTOMETRIC DATA - INDIRECT*

700 lm/ft

PHOTOMETRIC CURVE



Indirect Output: 700 lm/ft
Total Lumens: 2691 lm (for 4ft)
Input Watts: 31 W
Efficacy: 87 lm/W

CANDELA DISTRIBUTION

	Horizontal Angles								
Vertical Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
90	0	0	0	0	0	0	0	0	0
95	25	26	32	42	54	65	53	41	34
105	226	211	194	215	267	265	255	278	285
115	418	391	360	394	481	472	470	520	534
125	551	520	481	518	628	639	648	695	699
135	615	585	548	572	672	732	762	795	794
145	618	595	562	554	619	719	789	823	820
155	568	548	516	498	534	627	704	748	757
165	482	469	454	451	475	529	578	620	626
175	434	433	434	438	449	465	476	483	483
180	446	446	446	446	446	446	446	446	446

ZONAL LUMENS

Zone	Lumens
90	
90-100	57
100-110	256
110-120	438
120-130	529
130-140	517
140-150	421
150-160	281
160-170	148
170-180	44
180	

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.
IES FILE: STI-700-80-35-4.IES
TESTED ACCORDING TO IES LM-79-2008

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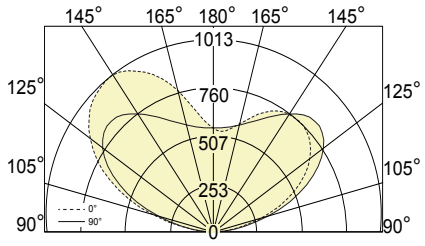
● *PHOTOMETRIC DATA - INDIRECT*

800 lm/ft

PHOTOMETRIC CURVE



Indirect Output: 800 lm/ft
Total Lumens: 3308 lm (for 4ft)
Input Watts: 38.6 W
Efficacy: 86 lm/W

CANDELA DISTRIBUTION

	Horizontal Angles								
Vertical Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
90	0	0	0	0	0	0	0	0	0
95	61	59	61	61	67	68	42	24	18
105	319	295	263	279	329	308	283	294	299
115	547	510	462	498	592	564	551	602	617
125	697	657	605	649	774	774	777	831	834
135	764	725	679	712	832	898	928	966	962
145	755	726	686	683	771	897	977	1012	1006
155	683	659	622	610	670	794	889	939	947
165	575	562	549	555	597	672	738	792	798
175	532	533	537	546	564	587	604	612	612
180	560	560	560	560	560	560	560	560	560

ZONAL LUMENS

Zone	Lumens
90	
90-100	69
100-110	311
110-120	536
120-130	649
130-140	636
140-150	519
150-160	348
160-170	184
170-180	55
180	

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.
IES FILE: STI-800-80-35-4.IES
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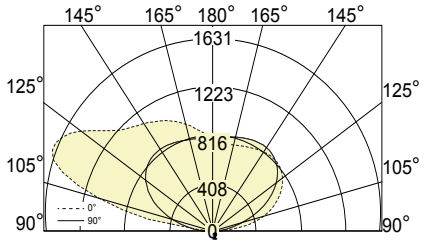
● *PHOTOMETRIC DATA - INDIRECT - ASYMMETRIC*

1000 lm/ft

PHOTOMETRIC CURVE



Lumen/ft up: 1000 lm/ft
Total Lumens: 4300 lm (for 4ft)
Input Watts: 47.7 W
Efficacy: 90 lm/W

CANDELA DISTRIBUTION

	Horizontal Angles								
Vertical Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
90	0	0	0	0	0	0	0	0	0
95	125	18	24	41	30	63	33	23	20
105	479	351	331	299	263	356	605	1034	1088
115	673	597	563	534	523	604	801	1385	1631
125	789	752	719	707	717	792	925	1265	1484
135	837	833	801	801	828	896	996	1140	1217
145	823	844	826	832	868	935	1010	1087	1114
155	789	822	814	824	857	917	978	1025	1039
165	760	791	792	802	827	863	902	931	940
175	768	781	784	790	800	812	822	831	834
180	794	794	794	794	794	794	794	794	794

ZONAL LUMENS

Zone	Lumens
90	
90-100	159
100-110	575
110-120	777
120-130	788
130-140	706
140-150	573
150-160	408
160-170	237
170-180	77
180	

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.
IES FILE: STIA-1000-80-35-AS-4.IES
TESTED ACCORDING TO IES LM-79-2008

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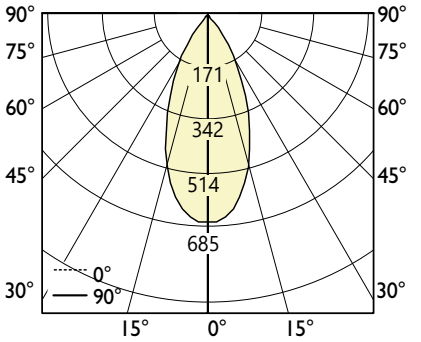
● *PHOTOMETRIC DATA - MikroLite 1.0*

MikroLite - 35° beam

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	685	685	685	685	685
5	664	665	666	667	666
15	514	517	522	521	520
25	292	297	305	301	296
35	119	132	142	132	117
45	15	27	50	27	14
55	2	3	4	3	3
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMENS

Zone	Lumens
0	
0-10	62
10-20	143
20-30	137
30-40	82
40-50	25
50-60	4
60-70	0
70-80	0
80-90	0
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	10042	34267	9679
55	2064	3662	2476
65	0	0	0
75	0	0	0
85	0	0	0

Total Lumens: 452 lm (for 1 module)
Input Watts: 6.59 W
Efficacy: 69 lm/W

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.
IES FILE: MKL-D35-A18323G.IES
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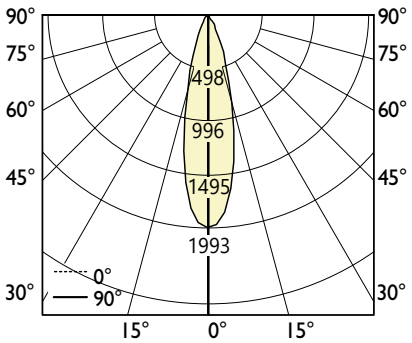
● *PHOTOMETRIC DATA - MikroLite 1.0*

MikroLite - 20° beam

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1993	1993	1993	1993	1993
5	1859	1830	1831	1837	1835
15	858	863	861	828	843
25	286	288	294	273	266
35	76	88	102	89	71
45	9	15	32	15	9
55	1	1	3	1	1
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMENS

Zone	Lumens
0	
0-10	159
10-20	225
20-30	122
30-40	49
40-50	13
50-60	2
60-70	0
70-80	0
80-90	0
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	192	452	113
55	22	37	14
65	0	1	1
75	0	0	0
85	0	0	0

Total Lumens: 569 lm (for 1 module)
Input Watts: 6.6 W
Efficacy: 86 lm/W

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.
IES FILE: MKL-D20-A18324G.IES
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