

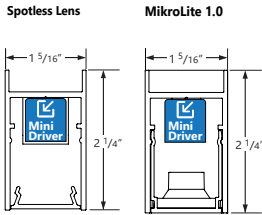
# Slate 1 | FOR ACOUSTIC CEILINGS COMBINED OPTICS (MikroLite with Spotless Flush Lens)



Project \_\_\_\_\_

Type \_\_\_\_\_

Notes \_\_\_\_\_



## PERFORMANCE PER LINEAR FOOT AT 3500K

	NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY
SO and SORG Lens options	200 lm/ft	2.3 W/ft	88 lm/W
	300 lm/ft	3.15 W/ft	95 lm/W
	400 lm/ft	4.1W/ft	98 lm/W
MikroLite**	1000 lm/module	9.0 W/module	111 lm/W

\* Based on a 4 foot luminaire using one driver  
Please consult factory for custom lumen output and wattage.  
\*\* 90 CRI only

## Ordering Guide

PRODUCT ID	LENGTH	SHIELDING	NOM. LUMENS/FT DOWN	CRI	COLOR TEMP.
SL1 Slate1 Combined Optics (Spotless Lens with MikroLite)	4 4'	SO + MKL(Config, Baffle Type, Cell Optics, Beam Angle, Lumen Output, Baffle Finish)	200 200 lm/ft 300 300 lm/ft 400 400 lm/ft	90 high efficacy 90 CRI	27 2700 K
	5 5'				30 3000 K
	6 6'				35 3500 K
	7 7'				40 4000 K
	8 8'				
Compatible with Armstrong WOODWORKS® ceiling systems. Evaluated by Axis.		See Ordering Code builder table below for ordering options	MikroLite module nominal lumen output defined in the Ordering Code Builder below.	MikroLite comes in 90 CRI.	

FINISH		VOLTAGE	DRIVER	CIRCUITS	UB MOUNTING / SUSPENSION	BATTERY (OPTIONAL)	POWER CABLE LENGTH (OPT.)	CUSTOM (OPT.)
W white	B2103 Wild Pine	120 120 V	DP integral driver	1 1 circuit	UB universal bracket	BR(#) battery pack (remote)	# Power cable length ft*	C custom
AP aluminum paint	B2601 Medium Teak	277 277 V	0-10V dimming (1%)	+E(#) emergency circuit*				
BLK black	B1406 French Cherry	UNV universal	DALIZ integral driver	+NL(#) night light circuit				
C custom	B1102 Maple Cherry		DALI 2.0 - wired					
B99244 Birch	B1301 Medium Chestnut							
B2502 Fine Oak	B1806 Dark Walnut							
B1501 Douglas Fur	B99097 Dark Rosewood							
See page 3 for available wood finishes.				* Specify quantity			* 20 feet power cable standard, please specify if other length required.	Please specify

## \* Ordering Code Builder - MikroLite

MikroLite - MKL(Config, Baffle Type, Cell Optics, Beam Angle, Lumen Output, Baffle Finish)							
CONFIGURATION	TOTAL LENGTH	BAFFLE TYPE	CELL OPTICS	BEAM ANGLE	LUMEN OUTPUT	BAFFLE FINISH	
A configuration A	# Specify total length	LF lofted baffle	SF soft beam	D24 24 deg	200 200 lm/module min	MB	matte black
B configuration B		CN conic baffle	SR sharp beam	D50 50 deg	1000 1000 lm/module max	MW	matte white
C custom look (requires a drawing)			SFHC soft beam & honeycomb			MS	matte silver
Configurations available on page 4. MikroLite length available in 9.4" increments, blanks will be incorporated at hub connections to accommodate MikroLite module length limits.						MRG	matte rose gold
Configuration B not available with lengths 4', and 5'. Up to 1000 lm/module.						CG	chrome gold
						CB	chrome black
						CRG	chrome rose gold
						CS	chrome silver
						CL	crystal

# Slate 1 | FOR ACOUSTIC CEILINGS COMBINED OPTICS (MikroLite with Spotless Flush Lens)

## CONSTRUCTION

<b>Housing</b>	Extruded aluminum (0.080" nominal)
<b>End Cap+Joiner</b>	Die cast aluminum
<b>Lenses</b>	Extruded acrylic

## ELECTRICAL

<b>DP driver</b>	Features integral 0-10V driver 1% dimming standard. The integral 0-10V driver is the only driver available.
<b>DALI2 driver</b>	DALI 2.0 D4i certified driver.
<b>Emergency</b>	Remote emergency battery pack or emergency circuit optional.
<b>Input Voltage</b>	120V, 277V, UNV.

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

## LED SYSTEM

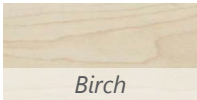



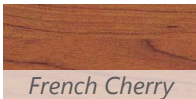
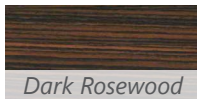




<b>CRI</b>	High efficacy 90 color rendering index.
<b>CCT</b>	Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3-step MacAdam ellipse).
<b>LED life</b>	Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
<b>Thermal Management</b>	Aluminum housing acting as the heat sink to maximize life.
<b>Performance</b>	Up to 108 lm/W.

## FINISHES

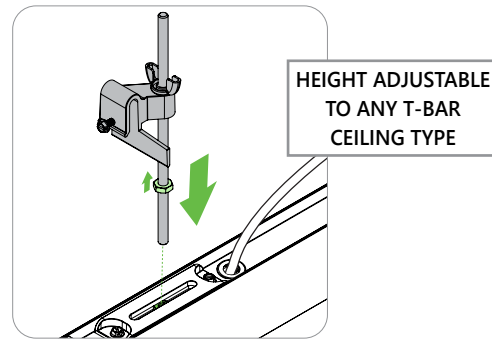
Powder coated and custom finishes are also available.

### Wood Finishes

Add style to the space with classic wood finish luminaires that use advanced sublimation technology to produce a durable and elegant wood grain finish. Please contact your Axis representative for more information including pricing and lead time.

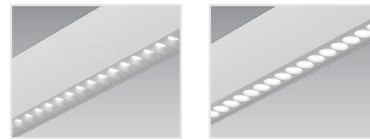
 <i>Birch</i> B99244	 <i>Medium Teak</i> B2601	 <i>Dark Walnut</i> B1806
 <i>Fine Oak</i> B2502	 <i>French Cherry</i> B1406	 <i>Dark Rosewood</i> B99097
 <i>Douglas Fir</i> B1501	 <i>Maple Cherry</i> B1102	
 <i>Wild Pine</i> B2103	 <i>Medium Chestnut</i> B1301	

## MOUNTING OPTIONS



UB - Universal Bracket shown

## MIKROLITE



**LF** Lofted baffle      **CN** Conical baffle

Available colors:

								
<b>MW</b> matte white	<b>MB</b> matte black	<b>MS</b> matte silver	<b>MRG</b> matte rose gold	<b>CG</b> chrome gold	<b>CL</b> crystal	<b>CB</b> chrome black	<b>CS</b> chrome silver	<b>CRG</b> chrome rose gold

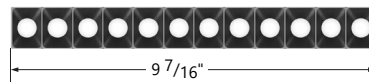
Available beam angles:



24°      50°

## MIKROLITE LENGTH INCREMENT

12 cell modules [9.4" (239mm)] length increments available.




Minimum length for MikroLite option is 9.4". Provided recommended staggered and full length configurations on page 7. Consult factory for custom layouts.

Up to 1000 lm/module

Full segment length MikroLite available, blanks will be incorporated at hub connections to accommodate MikroLite module length limits.

## APPROVALS

Certified to UL and CSA standards   
Suitable for damp locations.

## WARRANTY

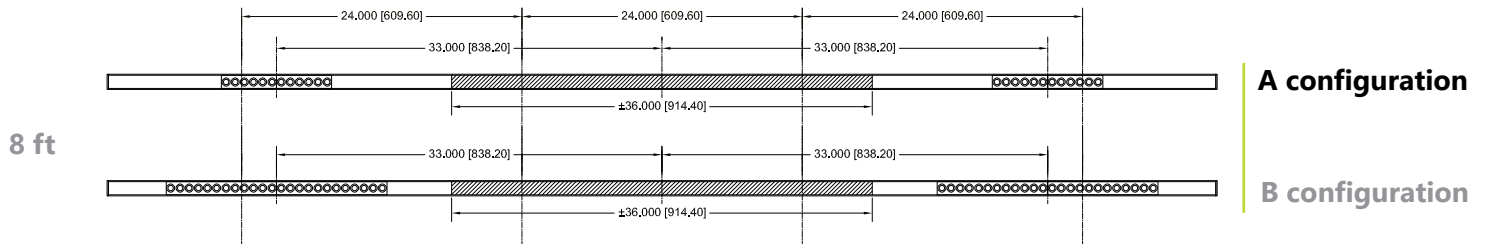
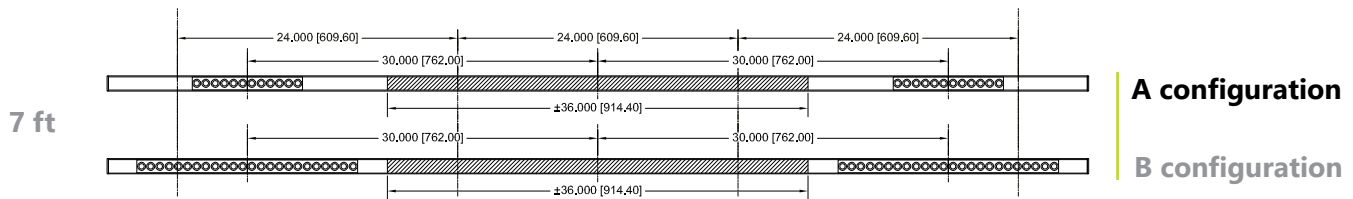
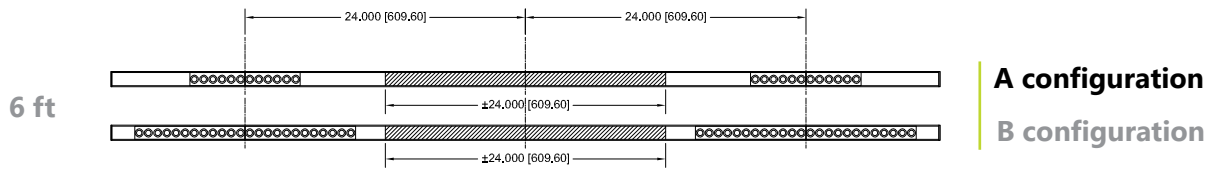
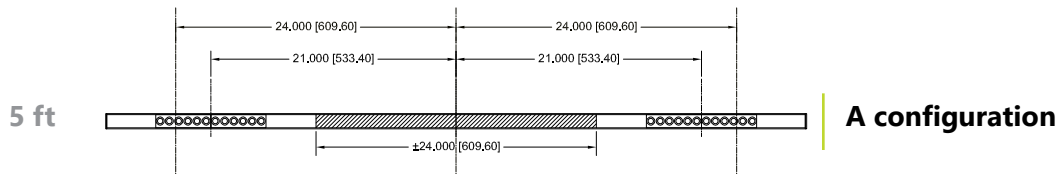
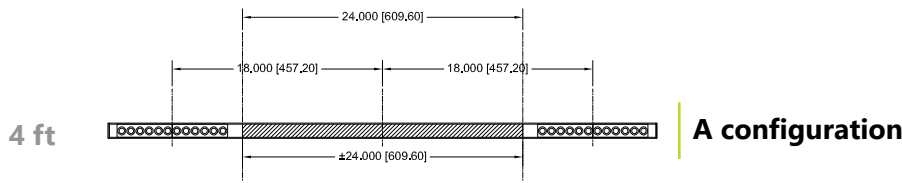
Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at [axislighting.com](http://axislighting.com).

# Slate 1 | FOR ACOUSTIC CEILINGS COMBINED OPTICS (MikroLite with Spotless Flush Lens)

## ● SO LENS COMBINED WITH MIKROLITE CONFIGURATIONS

2 ft N/A

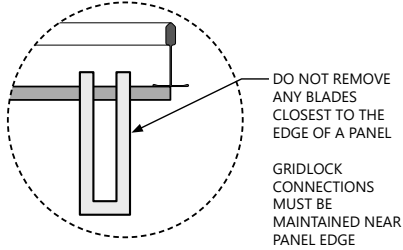
3 ft N/A



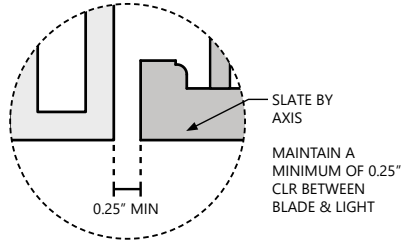
## ● TURF CEILINGS INTEGRATION

For ceiling panels adjustments and installation, please refer to ceilings provider documentation.

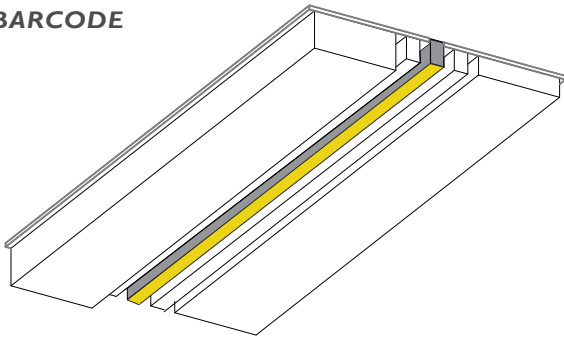
BLADES AT PANEL EDGE



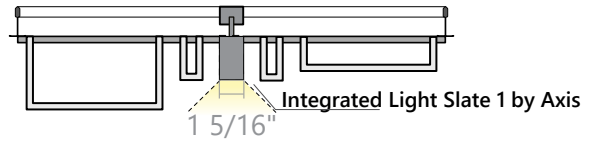
BLADES & LIGHT CLEARANCE



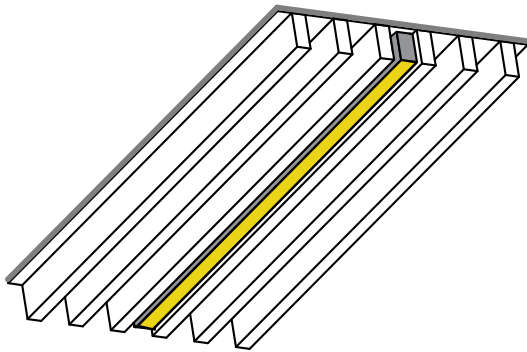
### BARCODE



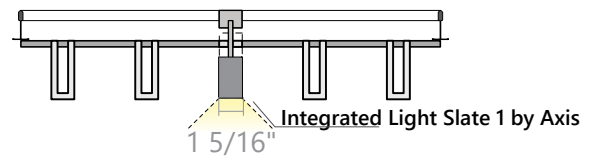
Barcode Acoustic ceiling (B panel) by TURF



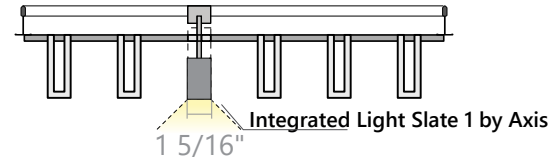
### GRILLE



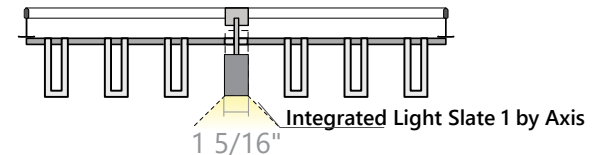
Grille Acoustic ceiling (G5 panel) by TURF



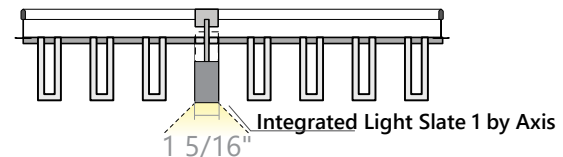
Grille Acoustic ceiling (G6 panel) by TURF



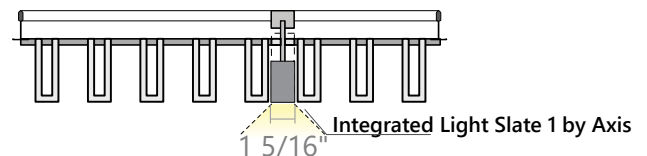
Grille Acoustic ceiling (G7 panel) by TURF



Grille Acoustic ceiling (G8 panel) by TURF

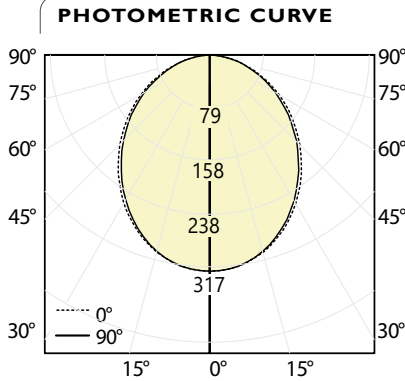


Grille Acoustic ceiling (G8 panel) by TURF



## ● PHOTOMETRIC DATA - DIRECT

### Spotless Lens 200 lm/ft



**Direct Output: 200 lm/ft**  
**Total Lumens: 800 lm (for 4ft)**  
**Input Watts: 9.1 W**  
**Efficacy: 88 lm/W**

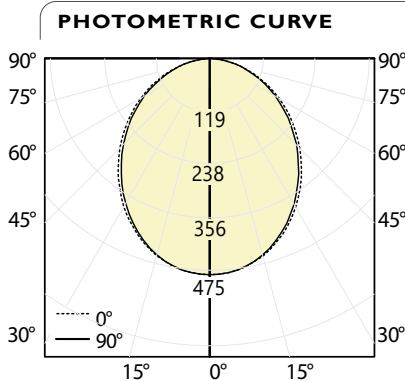
IES FILE: SL1-SO-200-90-35-4.IES  
 TESTED ACCORDING TO IES LM-79-2019

Vertical Angle	CANDELA DISTRIBUTION				
	Horizontal Angles				
	0	22.5	45	67.5	90
0	317	317	317	317	317
5	315	315	315	315	315
15	299	299	299	298	298
25	270	270	268	267	266
35	231	231	228	226	225
45	187	186	183	180	179
55	140	140	137	134	133
65	94	94	92	90	89
75	48	49	49	48	47
85	12	12	12	11	11
90					

Zone	ZONAL LUMENS
	Lumens
0	
0-10	30
10-20	84
20-30	123
30-40	143
40-50	141
50-60	123
60-70	91
70-80	51
80-90	14
90	

Vertical Angle	LUMINANCE DATA (cd/m <sup>2</sup> )		
	Horizontal Angles		
	0	45	90
45	7985	7851	7675
55	7389	7239	7033
65	6701	6567	6363
75	5668	5694	5514
85	4079	4203	3874

### Spotless Lens 300 lm/ft



**Direct Output: 300 lm/ft**  
**Total Lumens: 1200 lm (for 4ft)**  
**Input Watts: 12.6 W**  
**Efficacy: 95 lm/W**

IES FILE: SL1-SO-300-90-35-4.IES  
 TESTED ACCORDING TO IES LM-79-2019

Vertical Angle	CANDELA DISTRIBUTION				
	Horizontal Angles				
	0	22.5	45	67.5	90
0	475	475	475	475	475
5	472	472	472	472	472
15	449	449	448	447	447
25	405	405	403	400	399
35	346	346	342	338	337
45	280	280	275	271	269
55	210	210	206	202	200
65	140	140	138	135	133
75	73	74	73	72	71
85	18	18	18	17	17
90					

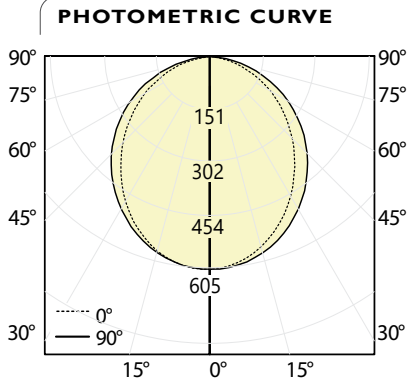
Zone	ZONAL LUMENS
	Lumens
0	
0-10	45
10-20	126
20-30	185
30-40	214
40-50	212
50-60	184
60-70	136
70-80	77
80-90	21
90	

Vertical Angle	LUMINANCE DATA (cd/m <sup>2</sup> )		
	Horizontal Angles		
	0	45	90
45	11978	11776	11513
55	11084	10859	10550
65	10051	9851	9544
75	8502	8542	8271
85	6118	6304	5810

**i** All IES files are available for download at: [www.axislighting.com](http://www.axislighting.com)

## ● PHOTOMETRIC DATA - DIRECT

Spotless Lens  
400 lm/ft



CANDELA DISTRIBUTION					
Vertical Angle	Horizontal Angles				
	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	
Zone	Lumens
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/m <sup>2</sup> )			
Vertical Angle	Horizontal Angles		
	0	45	90
45	41858	45837	49617
55	37812	42873	47624
65	32769	38735	44638
75	25073	31762	39068
85	11103	17519	25974

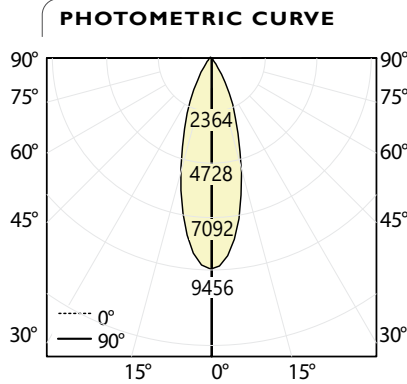
**Direct Output: 400 lm/ft**  
**Total Lumens: 1600 lm (for 4ft)**  
**Input Watts: 16.01 W**  
**Efficacy: 100 lm/W**

IES FILE: SL1-SO-400-90-35-4.IES  
 TESTED ACCORDING TO IES LM-79-2019

**i** All IES files are available for download at: [www.axislighting.com](http://www.axislighting.com)

## ● PHOTOMETRIC DATA - LOFTED MIKROLITE 1.25

### MikroLite - Lofted Black Matte 24° soft beam



Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	9345	9345	9345	9345	9345
5	8794	8548	8438	8251	8262
15	5249	4866	4671	4455	4487
25	2303	2127	2041	1926	1911
35	573	597	688	649	642
45	128	134	197	208	192
55	41	45	66	74	70
65	2	3	11	12	9
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	1	1	1

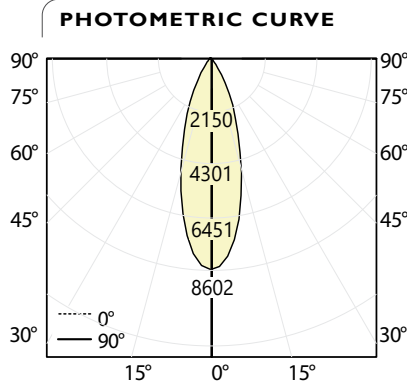
Zone	Lumens
	0
0-10	1432
10-20	1056
20-30	487
30-40	168
40-50	64
50-60	15
60-70	0
70-80	0
80-90	0
90	0

Vertical Angle	Horizontal Angles		
	0	45	90
45	7532	11591	11316
55	2999	4824	5077
65	175	1107	873
75	0	0	0
85	0	40	102

**Total Lumens: 1000 lm (for 1 module)**  
**Input Watts: 9.70 W**  
**Efficacy: 103 lm/W**

90 CRI at 3500K shown.  
 IES FILE: MKL-B-LF-SF-D24-1000-BM.ies  
 TESTED ACCORDING TO IES LM-79-2019

### MikroLite - Lofted White Matte 24° soft beam



Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	8602	8602	8602	8602	8602
5	8164	8061	8034	7924	7960
15	5055	4884	4830	4702	4706
25	2308	2227	2208	2133	2126
35	651	716	828	796	786
45	197	210	280	293	272
55	106	111	132	138	128
65	48	51	61	60	54
75	20	20	18	14	12
85	6	5	5	3	3
90	1	1	1	1	1

Zone	Lumens
	0
0-10	1355
10-20	1026
20-30	505
30-40	211
40-50	115
50-60	58
60-70	19
70-80	5
80-90	0
90	0

Vertical Angle	Horizontal Angles		
	0	45	90
45	11591	16507	16047
55	7679	9573	9268
65	4719	6032	5307
75	3226	2923	1921
85	2727	2166	1222

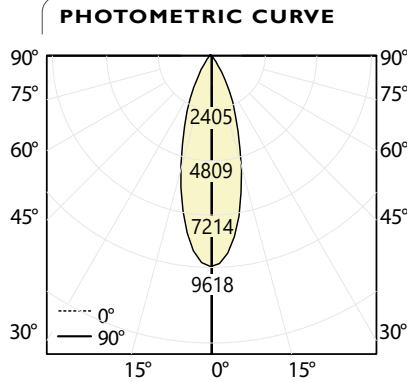
**Total Lumens: 1000 lm (for 1 module)**  
**Input Watts: 9.02 W**  
**Efficacy: 111 lm/W**

90 CRI at 3500K shown.  
 IES FILE: MKL-B-LF-SF-D24-1000-WM.ies  
 TESTED ACCORDING TO IES LM-79-2019

**i** All IES files are available for download at: [www.axislighting.com](http://www.axislighting.com)

## ● PHOTOMETRIC DATA - CONIC MIKROLITE 1.25

### MikroLite - Conic Black Matte 24° soft beam



Vertical Angle	CANDELA DISTRIBUTION				
	Horizontal Angles				
	0	22.5	45	67.5	90
0	9618	9618	9618	9618	9618
5	9187	9111	9090	9030	9015
15	5726	5630	5614	5503	5513
25	2545	2499	2514	2460	2436
35	603	587	606	586	597
45	125	123	126	124	126
55	37	36	38	38	39
65	1	1	1	1	2
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

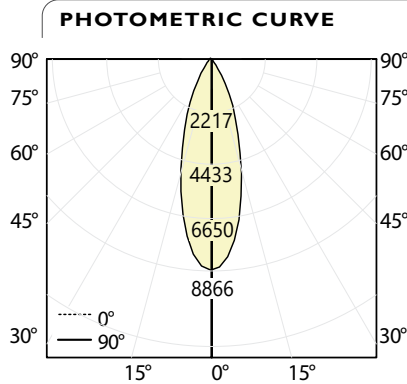
Zone	ZONAL LUMENS
	Lumens
0	
0-10	817
10-20	1536
20-30	1112
30-40	396
40-50	102
50-60	33
60-70	3
70-80	0
80-90	0
90	

Vertical Angle	LUMINANCE DATA (cd/m <sup>2</sup> )		
	Horizontal Angles		
	0	45	90
45	7363	7444	7394
55	2671	2774	2862
65	133	109	195
75	0	0	0
85	0	0	0

**Total Lumens: 1000 lm (for 1 module)**  
**Input Watts: 10.24 W**  
**Efficacy: 98 lm/W**

90 CRI at 3500K shown.  
 IES FILE: MKL-B-CN-SF-D24-1000-BM.ies  
 TESTED ACCORDING TO IES LM-79-2019

### MikroLite - Conic White Matte 24° soft beam



Vertical Angle	CANDELA DISTRIBUTION				
	Horizontal Angles				
	0	22.5	45	67.5	90
0	8866	8866	8866	8866	8866
5	8369	8324	8364	8332	8363
15	5102	5040	5094	5030	5112
25	2262	2222	2254	2233	2287
35	615	606	626	616	634
45	218	215	218	216	220
55	129	126	127	127	129
65	69	67	67	66	67
75	31	30	30	29	30
85	8	8	8	7	8
90	1	1	1	1	1

Zone	ZONAL LUMENS
	Lumens
0	
0-10	749
10-20	1400
20-30	1039
30-40	426
40-50	176
50-60	115
60-70	68
70-80	32
80-90	9
90	

Vertical Angle	LUMINANCE DATA (cd/m <sup>2</sup> )		
	Horizontal Angles		
	0	45	90
45	12862	12843	12956
55	9373	9239	9384
65	6797	6610	6596
75	5026	4890	4832
85	3977	3722	3651

**Total Lumens: 1000 lm (for 1 module)**  
**Input Watts: 9.25 W**  
**Efficacy: 108 lm/W**

90 CRI at 3500K shown.  
 IES FILE: MKL-B-CN-SF-D24-1000-WM.ies  
 TESTED ACCORDING TO IES LM-79-2019

**i** All IES files are available for download at: [www.axislighting.com](http://www.axislighting.com)