

**Los Angeles Lakers Headquarters**

2275 East Mariposa Avenue  
El Segundo, California 90245

RA Rec'd 030116  
Returned 031416  
RFI Code A1

**Request for Information**

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**RFI 184 - Light Fixture F29.B Mounting Detail**

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<i>Date Submitted</i>	3/1/2016	<i>To</i>	Fred Hofmann	<i>From</i>	Robert Bowman
<i>Date Required</i>	3/8/2016		Rossetti		Morley Construction Company
<i>Discipline</i>	Electrical		Tel: (313) 463-5151		Tel: 310-399-1600
<i>Author RFI Ref.</i>	None		fhofmann@rossetti.com		rbowman@morleybuilders.com

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<i>Document Ref.</i>	<i>Number</i>	<i>Title</i>	<i>Revision</i>
	SL-102	LEVEL 1 - SOUTH LIGHTING RCP	Jan 15, 2016 - No: 3

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**Question**

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*Attachments*      None

Sheet SL-102 calls for a cove light fixture, F29.B, at Restrooms 1056 and 1057. These rooms, however, open ceilings. Please provide a mounting detail for these fixtures. If a soffit is to be constructed, please provide construction details.

**Answer**

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*Date Answered* \_\_\_\_\_ *Answered By* \_\_\_\_\_

**KGM RFI 184 ANSWER:**

F29.B fixtures at restrooms 1056 and 1057 to be replaced with wall mounted linear fixtures, F28.A (18 ft) and F28.B (19.5 ft) as indicated on the drawing shown below. Cutsheet for F28 fixture is attached.

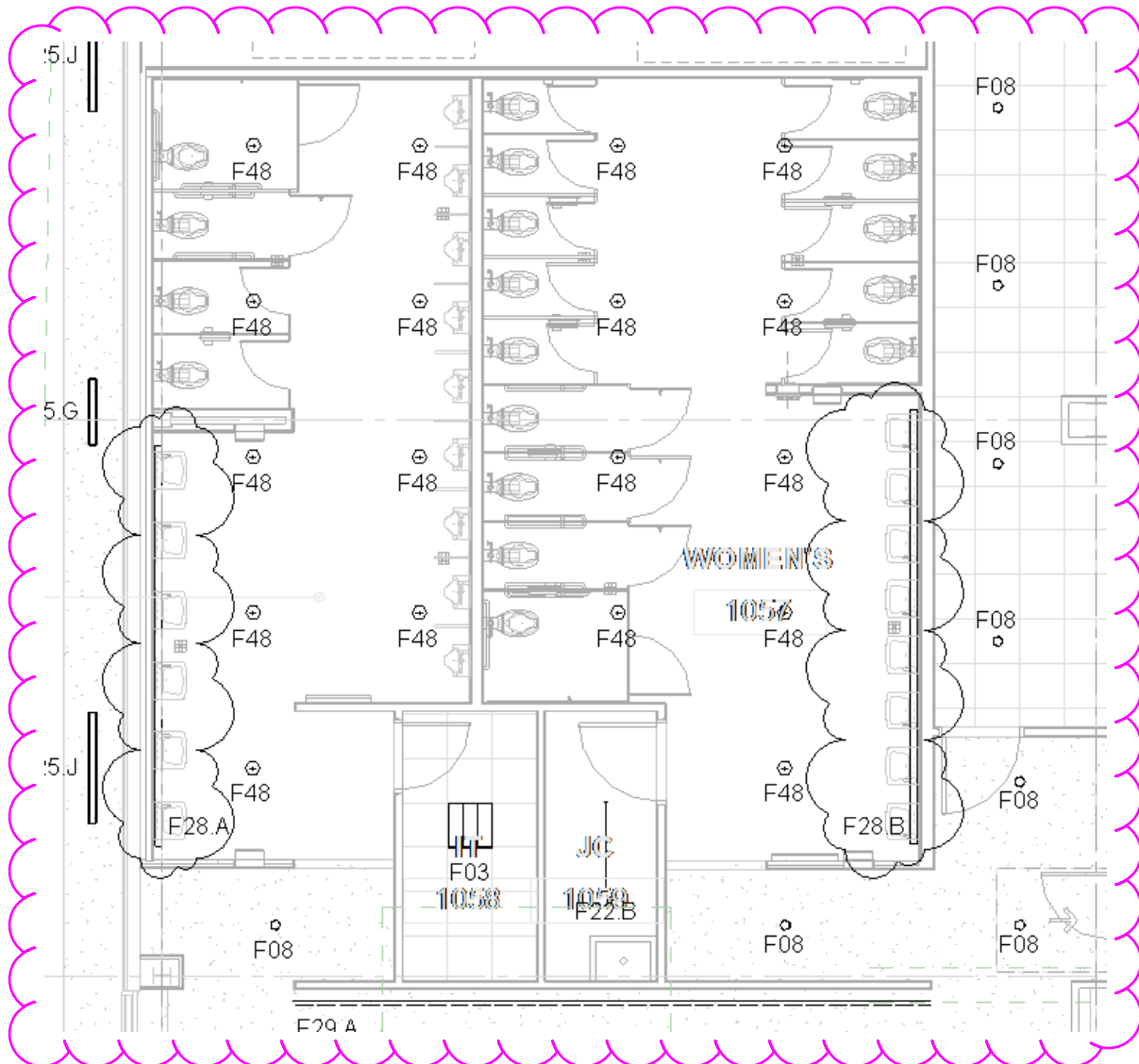
This clarification is interpreted to be within the scope of referenced contracts issued in accordance with the Contract Documents, and without change in Contract Sum or Contract Time, and, as such, is not an authorization for work beyond the scope of the contract.

**Project:** Los Angeles Lakers Headquarters  
**RFI Number:** 184  
**RFI Subject:** Light Fixture F29.B Mounting Detail  
**RFI Question:**

Sheet SL-102 calls for a cove light fixture, F29.B, at Restrooms 1056 and 1057. These rooms, however, open ceilings. Please provide a mounting detail for these fixtures. If a soffit is to be constructed, please provide construction details.

**KGM RFI 184 ANSWER:**

F29.B fixtures at restrooms 1056 and 1057 to be replaced with wall mounted linear fixtures, F28.A (18 ft) and F28.B (19.5 ft) as indicated on the drawing shown below. Cutsheet for F28 fixture is attached.





KAPLAN GEHRING McCARROLL  
ARCHITECTURAL LIGHTING

**PRACTICE FACILITY - KGM #14098**

ISSUED FOR CONSTRUCTION

Mar 11, 2016



**REV**

**Fixture Type:**

**F28.A**

18 FT WALL MOUNTED LINEAR LED FIXTURE

*Manufacturer:* AXIS

*Fixture Line:* BOX MINI LED

*Fixture:* SURFACE MOUNT LINEAR

*Catalog #:* MBSLED-B3-MF-600-90-30-S-S18-FINISH-277-D-1

*Mounting:* WALL MOUNT

*Fixture Wattage:* 98.64w

*Fixture Voltage:* 277

*Load Type:* 0-10V

*Lamp Spec:* LED, 3000K, 600 lm/ft, 5.48 w/ft





## SURFACE MOUNT

ÉCLAIRAGE  
**axis**  
LIGHTING

1.800.263.AXIS  
[T] 514.948.6272  
[F] 514.948.6271  
www.axislighting.com

## ● PROJECT INFORMATION

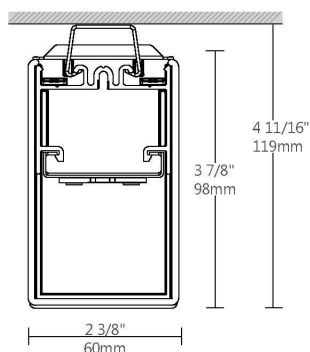
Project:

Type:

Notes:



## ● DIMENSIONS - SECTION VIEWS



## PERFORMANCE PER LINEAR FOOT AT 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY
600 lm/ft	5.48 W/ft	111 lm/W

Please consult factory for custom lumen output and wattage.



\*Check the latest update on the DLC website for complete information. Not all versions may be DLC qualified.



MidFlex

## ● ORDERING CODE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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## ● PRODUCT SPECIFICATIONS

1	PRODUCT ID	2	VERSION	3	LIGHT ENGINE	4	NOM. LUMENS/FT	5	CRI	6	COLOUR TEMP.	7	SHIELDING	8	LENGTH/FT	9	FINISH
MBSLED	mini box surface led	B3	version 3	MF	mid flex LED	500	500 lm/ft	80	80 CRI	30	3000 K	S	satin lens	2	2'	AP	aluminum paint
						600	600 lm/ft	90	90 CRI (1)	35	3500 K			3	3'	W	white
						800	800 lm/ft			40	4000 K			4	4'	BLK	black
						1000	1000 lm/ft							6	6'	C	custom
														8	8'		
														12	12'		
														S#	System Run		

(1) Not available with 4000K

109	VOLTAGE	11	DRIVER	12	CIRCUITS	13	MOUNTING/SUSPENSION	14	BATTERY (OPTIONAL)	15	OTHER (OPTIONAL)
120	120 V	D	dimming (0-10V)	1	1 circuit	S	surface drywall ceiling	B#	battery pack 4' sections (5)	F	fuse (6)
277	277 V	DP	dimming (0-10V) 1%	2	2 circuits	SB	surface t-bar ceiling			FW#	flex whip (6' std) (7)
347	347 V	LT	lutron (2)	+E(#)	emergency circuit (4)	SC	surface solid ceiling				
UNV	universal	BI	bi-level dimming	+NL(#)	night light circuit (4)						
		O	other (3)	+GTD(#)	generator transfer device (4)						
		(2) Standard with LED		(4) Specify quantity				(5) Specify quantity		(6) Requires 120V or 277V	
		(3) Please consult factory						Please consult factory		(7) Specify quantity	

## 16 CUSTOM (OPTIONAL)

C custom

Please specify

FILE NAME: MBS.LED-B3.SPEC March 8, 2016





## SURFACE MOUNT

ÉCLAIRAGE  
**axis**  
LIGHTING

1.800.263.AXIS  
[T] 514.948.6272  
[F] 514.948.6271  
www.axislighting.com

### ● LIGHT DISTRIBUTION



semi direct

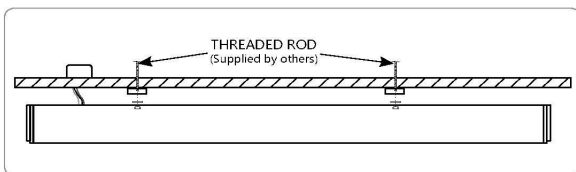
### ● MOUNTING SPACING

Between Mounting Points:

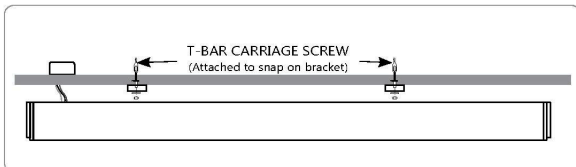
MINI BOX 4'	(32")
MINI BOX 8'	(80")
MINI BOX 12'	(128")



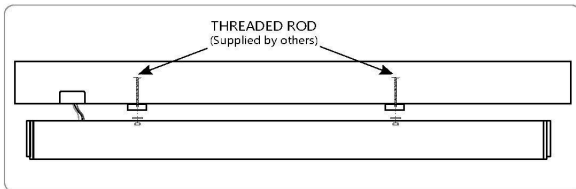
### ● MOUNTING DETAILS



#### S SURFACE MOUNT DRYWALL CEILING



#### SB SURFACE MOUNT T-BAR CEILING



#### SC SURFACE MOUNT SOLID CEILING

**i** Installation sheets for all mounting options are available at:  
[www.axislighting.com](http://www.axislighting.com)

### ● WEIGHT

MINI BOX 4 ft	8.4 lbs / 3.9 Kg
MINI BOX 8 ft	16.8 lbs / 7.7 Kg
MINI BOX 12 ft	25.2 lbs / 11.6 Kg

### ● SYSTEMS (S#)

Runs of MINI BOX that are greater than 12ft in length are designated as systems (S#). This means that the run is comprised of a combination of sections to be assembled on site using our joining system. For more information on systems and joining, please refer to the MINI BOX installation sheets available for download at [www.axislighting.com](http://www.axislighting.com)

### ● OTHER MOUNTING OPTIONS

MINI BOX is also available in pendant and wall mounted options.

**i** Specification sheets for all mounting options are available for download at [www.axislighting.com](http://www.axislighting.com)

### ● SPECIFICATIONS

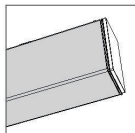
#### CONSTRUCTION

<b>Housing</b>	Extruded aluminium (0.070" nominal) up to 70% recycled content
<b>End Cap</b>	Die cast zinc (0.065" nominal)
<b>Joiners</b>	Die cast zinc (0.070" nominal)
<b>Interior Brackets</b>	Die formed Sheet Steel (20 gauge)
<b>Reflectors</b>	Die formed Sheet Steel (18 gauge)
<b>Lens joiners</b>	Die cast zinc (0.070" nominal)
<b>Satin lens</b>	Acrylic satin finish (0.060" nominal)

#### ELECTRICAL

<b>LED</b>	Use of OptimaLED technology based on mid-flux LED
<b>Input Voltage</b>	120V, 277V, 347V, UNV.
<b>Driver</b>	Dimming, HiLume, EcoSystem, DALI,
<b>CRI</b>	Minimum 80 color rendering index
<b>CCT</b>	Choice of 3000k, 3500k and 4000k color temperature with a great color consistency (within 3.5-step MacAdam ellipse).
<b>LED life</b>	Minimum 50,000h with 70% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
<b>Thermal management</b>	Aluminium housing acting as the heat spreader to maximize life.
<b>Emergency</b>	Emergency battery pack or emergency circuit optional.

### ● OPTICS OPTIONS



S satin lens

### ● FINISH

Aluminium paint, Powder Coated and custom finishes are also available.

### ● APPROVALS

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



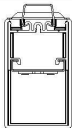


## SURFACE MOUNT

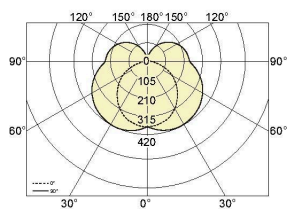
ÉCLAIRAGE I.800.263.AXIS  
**axis** [T] 514.948.6272  
LIGHTING [F] 514.948.6271  
www.axislighting.com

### ● PHOTOMETRIC DATA

600 lm/ft



#### PHOTOMETRIC CURVE



Luminaire Lumens: 600 lm/ft

Input Watts: 5.48 W/ft

Efficacy: 111 lm/w

IES FILE: MBSLED-B3-MF-600-80-35-S-4.IES

TESTED ACCORDING TO IES LM-79-2008

#### CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	378	378	378	378	378
5	375	381	385	389	392
15	361	380	395	407	412
25	333	363	392	412	420
35	293	335	376	405	415
45	245	298	351	389	402
55	191	253	318	364	379
65	131	202	277	331	348
75	72	150	231	288	306
85	20	100	183	241	260
90	1	80	163	222	240
95	1	79	160	218	236
105	1	75	153	208	225
115	0	69	141	191	207
125	0	60	124	168	182
135	0	47	100	140	152
145	0	34	72	109	118
155	0	24	48	68	82
165	0	11	26	34	45
175	0	2	5	7	3
180	0	0	0	0	0

#### ZONAL LUMENS

Zone	Lumens
0	
0-10	37
10-20	111
20-30	178
30-40	230
40-50	263
50-60	273
60-70	260
70-80	227
80-90	182
90-100	157
100-110	145
110-120	125
120-130	99
130-140	71
140-150	43
150-160	21
160-170	7
170-180	1

#### LUMINANCE DATA (CD/M<sup>2</sup>)

Vertical Angle	Horizontal Angles		
	0	45	90
45	5099	5609	5908
55	4859	5665	6067
65	4461	5772	6329
75	3884	6019	6675
85	2801	6629	7365

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



KAPLAN GEHRING McCARROLL  
ARCHITECTURAL LIGHTING

**PRACTICE FACILITY - KGM #14098**

ISSUED FOR CONSTRUCTION

Mar 11, 2016



**REV**

**Fixture Type:**

**F28.B**

**19.5 FT WALL MOUNTED LINEAR LED FIXTURE**

*Manufacturer:* AXIS

*Fixture Line:* BOX MINI LED

*Fixture:* SURFACE MOUNT LINEAR

*Catalog #:* MBSLED-B3-MF-600-90-30-S-S19.5-FINISH-277-D-1

*Mounting:* WALL MOUNT

*Fixture Wattage:* 106.86w

*Fixture Voltage:* 277

*Load Type:* 0-10V

*Lamp Spec:* LED, 3000K, 600 lm/ft, 5.48 w/ft





## SURFACE MOUNT

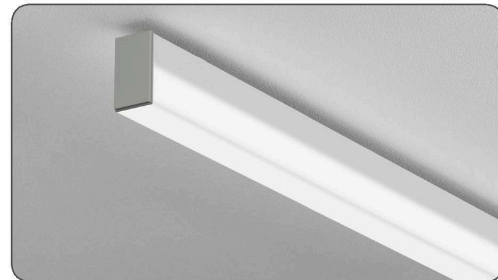
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## ● PROJECT INFORMATION

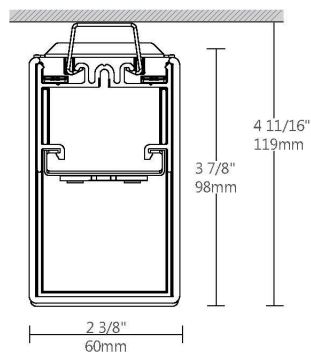
Project:

Type:

Notes:



## ● DIMENSIONS - SECTION VIEWS



## PERFORMANCE PER LINEAR FOOT AT 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY
600 lm/ft	5.48 W/ft	111 lm/W

Please consult factory for custom lumen output and wattage.



\*Check the latest update on the DLC website for complete information. Not all versions may be DLC qualified.



## ● ORDERING CODE

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## ● PRODUCT SPECIFICATIONS

1 PRODUCT ID	2 VERSION	3 LIGHT ENGINE	4 NOM. LUMENS/FT	5 CRI	6 COLOUR TEMP.	7 SHIELDING	8 LENGTH/FT	9 FINISH
MBSLED mini box surface led	B3 version 3	MF mid flex LED	500 500 lm/ft 600 600 lm/ft 800 800 lm/ft 1000 1000 lm/ft	80 80 CRI 90 90 CRI (1)	30 3000 K 35 3500 K 40 4000 K	S satin lens	2 2' 3 3' 4 4' 6 6' 8 8' 12 12' S# System Run	AP aluminum paint W white BLK black C custom

(1) Not available with 4000K

109 VOLTAGE	11 DRIVER	12 CIRCUITS	13 MOUNTING/SUSPENSION	14 BATTERY (OPTIONAL)	15 OTHER (OPTIONAL)
120 120 V 277 277 V 347 347 V UNV universal	D dimming (0-10V) DP dimming (0-10V) 1% LT lutron(2) BI bi-level dimming O other(3)	1 1 circuit 2 2 circuits +E(#) emergency circuit(4) +NL(#) night light circuit(4) +GTD(#) generator transfer device(4)	S surface drywall ceiling SB surface t-bar ceiling SC surface solid ceiling	B# battery pack 4' sections(5)	F fuse(6) FW# flex whip (6' std)(7)
	(2) Standard with LED (3) Please consult factory	(4) Specify quantity		(5) Specify quantity Please consult factory Requires 120V or 277V	(6) Requires 120V or 277V (7) Specify quantity

## 16 CUSTOM (OPTIONAL)

C custom

Please specify

FILE NAME: MBS.LED-B3.SPEC March 8, 2016







## SURFACE MOUNT

ÉCLAIRAGE  
**axis**  
LIGHTING

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www.axislighting.com

### ● LIGHT DISTRIBUTION



semi direct

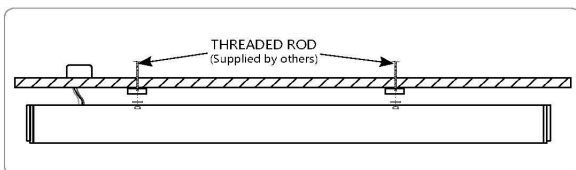
### ● MOUNTING SPACING

Between Mounting Points:

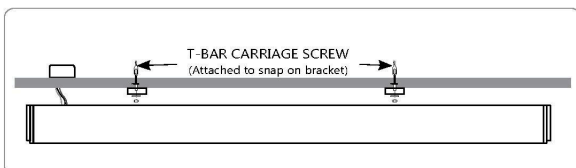
MINI BOX 4'	(32")
MINI BOX 8'	(80")
MINI BOX 12'	(128")



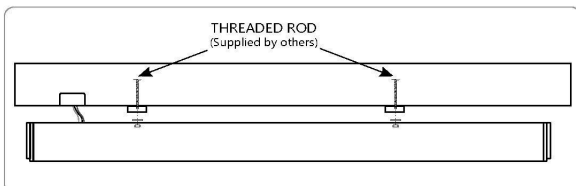
### ● MOUNTING DETAILS



#### S SURFACE MOUNT DRYWALL CEILING



#### SB SURFACE MOUNT T-BAR CEILING



#### SC SURFACE MOUNT SOLID CEILING

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### ● WEIGHT

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### ● SYSTEMS (S#)

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### ● SPECIFICATIONS

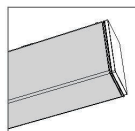
#### CONSTRUCTION

<b>Housing</b>	Extruded aluminium (0.070" nominal) up to 70% recycled content
<b>End Cap</b>	Die cast zinc (0.065" nominal)
<b>Joiners</b>	Die cast zinc (0.070" nominal)
<b>Interior Brackets</b>	Die formed Sheet Steel (20 gauge)
<b>Reflectors</b>	Die formed Sheet Steel (18 gauge)
<b>Lens joiners</b>	Die cast zinc (0.070" nominal)
<b>Satin lens</b>	Acrylic satin finish (0.060" nominal)

#### ELECTRICAL

<b>LED</b>	Use of OptimaLED technology based on mid-flux LED
<b>Input Voltage</b>	120V, 277V, 347V, UNV.
<b>Driver</b>	Dimming, HiLume, EcoSystem, DALI,
<b>CRI</b>	Minimum 80 color rendering index
<b>CCT</b>	Choice of 3000k, 3500k and 4000k color temperature with a great color consistency (within 3.5-step MacAdam ellipse).
<b>LED life</b>	Minimum 50,000h with 70% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
<b>Thermal management</b>	Aluminium housing acting as the heat spreader to maximize life.
<b>Emergency</b>	Emergency battery pack or emergency circuit optional.

### ● OPTICS OPTIONS



S satin lens

### ● FINISH

Aluminium paint, Powder Coated and custom finishes are also available.

### ● APPROVALS

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

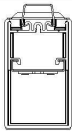


SURFACE MOUNT

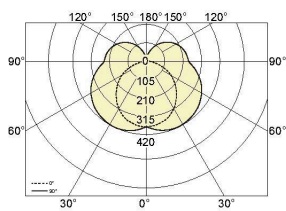
ÉCLAIRAGE I.800.263.AXIS  
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● PHOTOMETRIC DATA

600 lm/ft



PHOTOMETRIC CURVE



Luminaire Lumens: 600 lm/ft

Input Watts: 5.48 W/ft

Efficacy: 111 lm/w

IES FILE: MBSLED-B3-MF-600-80-35-S-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	378	378	378	378	378
5	375	381	385	389	392
15	361	380	395	407	412
25	333	363	392	412	420
35	293	335	376	405	415
45	245	298	351	389	402
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135	0	47	100	140	152
145	0	34	72	109	118
155	0	24	48	68	82
165	0	11	26	34	45
175	0	2	5	7	3
180	0	0	0	0	0

ZONAL LUMENS

Zone	Lumens
0	
0-10	37
10-20	111
20-30	178
30-40	230
40-50	263
50-60	273
60-70	260
70-80	227
80-90	182
90-100	157
100-110	145
110-120	125
120-130	99
130-140	71
140-150	43
150-160	21
160-170	7
170-180	1

LUMINANCE DATA (CD/M<sup>2</sup>)

Vertical Angle	Horizontal Angles		
	0	45	90
45	5099	5609	5908
55	4859	5665	6067
65	4461	5772	6329
75	3884	6019	6675
85	2801	6629	7365

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