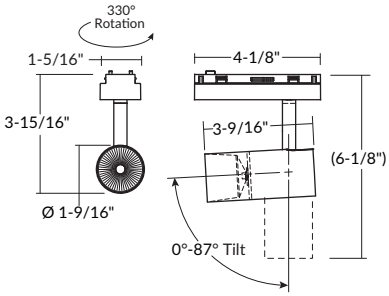
MODULED® STEALTH™

TYPE _____ PROJECT _____

CATALOG# _____

MM3-ADJUSTABLE SPOT
ILLUMINATED MODULE (650LM)

- Regressed LED optic for low glare
- Field interchangeable optics
- Fully Adjustable



The ModuLED MM3 features a twist-and-lock LED adjustable spot head that can be used for amazing design flexibility. Options for beam spread, mounting, and color temperature allow designers to specify a system that can be tailored to exact demands. The ceiling fixture plane is not broken by the MM3 Gimbal, creating an extremely smooth overall appearance.

Ordering Example: MM307B-B20-T27

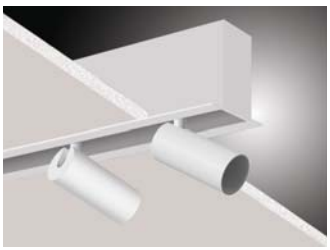
MM307				
Lumens	Finish	Beam Spread	CCT	Options

Lumens		Finish		Beam Spread		CCT		Options	
650lm (9W)	**MM307**	Black	**B**	10° Narrow Spot	**-B10**	2700K, 90 CRI	**-T27**	Louver	**-LVR**
		White	**W**	20° Spot	**-B20**	3000K, 90 CRI	**-T30**	Soft Focus Lens	**-SFL**
				40° Flood	**-B40**	3500K, 90 CRI	**-T35**	Red Filter	**-ML39**
				30° x 60° Asymmetric	**-B3060**	4000K, 90 CRI	**-T40***	Yellow Filter	**-ML40**
								Blue Filter	**-ML41**
								Amber Filter	**-ML42**
								Green Filter	**-ML43**

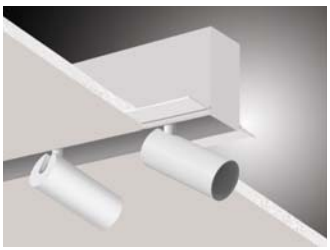
2022.09.19

COMPATIBLE MOUNTING & POWER SUPPLIES[1]

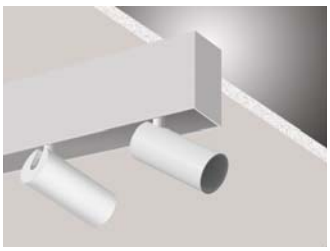
MTPDN
1.5" Pendant
Modular Slot
moduled.io/MTPDN



MTRFG
1.5" Recessed Flanged
Modular Slot
moduled.io/MTRFG



MTRTS
1.5" Recessed Trimless
Modular Slot
moduled.io/MTRTS



MTSRF
1.5" Surface
Modular Slot
moduled.io/MTSRF

*Special order item. Extended lead time.

[1] Refer to Modular Slot Specification Sheets for more complete information.

MM3-ADJUSTABLE SPOT ILLUMINATED MODULE (650LM)

SPECIFICATION

Applications

The ModuLED MM3 features twist-and-lock LED adjustable spot heads that can be used for amazing design flexibility. Options for beam spread, mounting, and color temperature can be tailored to the exact demands of a variety of different architectural spaces from high-end office conference rooms, lobbies, public walkways, art galleries and exhibitions, to residential homes and apartments.

Housing

Extruded aluminum cylinder attaches to extruded aluminum gimbal mounted on driver. Spotlight tilts 0° to 87° and rotates 330° on gimbal. Finished in black or white high quality powder coat finish for maximum durability.

Reflector

COB (Chip on Board) LED with total internal reflection (TIR) acrylic lens.

Mounting

Illuminated Module fits into Pendant (MTPDN), Recessed Flanged (MTRFG), Recessed Trimless (MTRTS) and Surface (MTSRF) modular slot systems.

LED Details

Color Temperature - LEDs binned to 3-step MacAdam ellipses within the ANSI C78 377A standard for color temperature and chromaticity ranges light binning allowance. 90 CRI standard.

Lumen Maintenance **-** Minimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.

Electrical Components

Thermal Management - Effective thermal management facilitated by integral extruded aluminum heat sink design for maximum heat dissipation to provide long LED life.

Driver - Highly efficient 24V DC with a power factor up to 0.99. 120V/277V AC for any residential or commercial applications.

Dimming - Superior PWM dimming technology compatible with many models of Triac, ELV, and 0-10V forward and reverse phase dimmers, and on/off switches. All models under 24V/96W are Class 2 compliant, making them safe and inspection-ready. They are derated, which means they can be loaded to maximum wattage capacity, with a minimum load of only 10%.

Certifications and Listings

ETL/cETL listed to UL1598 and UL8750. Suitable for dry and damp locations. NYC approved: Calendar #41937.

Warranty

Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Recommended for applications where ambient temperatures do not exceed 35°C. Installations exceeding this temperature will result in reduced LED lamp life and a voided warranty.

MM3-ADJUSTABLE SPOT
ILLUMINATED MODULE (650LM)

PHOTOMETRY

MM307 (650lm, 9W, 10°)

D = Distance from fixture (at ceiling/wall) to ground/wall at FC (center of beam)
H = Distance from ceiling to FC (center of beam)
FC = Footcandle at center of beam
W = Beam width
L = Beam length

MM307B-B10-T30

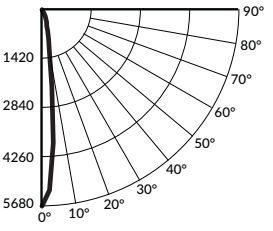
650lm, 9W, 10°, 3000K, CRI: 90

System Power (Watts)	: 8.6W
Test Date	: 5/2/2019
Horiz'l Beam Angle (50%)	: 13.2°
Horiz'l Field Angle (10%)	: 32.0°
Color Temperature (CCT)	: 3062K
CRI:	: 94.7
R9 Value	: 70.6
Lumens Delivered (lm)	: 643.5
CBCP (CD)	: 5680
Volts:	: 24V DC

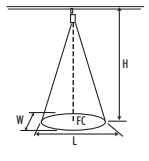
MULTIPLIERS

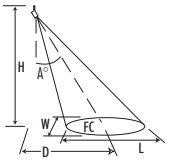
CCT
4000K : 1.24
3500K : 1.10
3000K : 1.00
2700K : 1.02

CANDELA TABULATION



Ceiling (Ground)

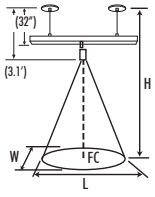


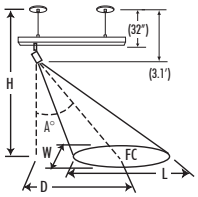


Recessed Track (MTRFG and MTRTS)

Horizontal Angle

No Tilt				Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°				
H	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L
8.0'	96.3	1.8'	1.8'	8.0'	2.1'	86.4	1.8'	1.9'	8.0'	4.5'	62.0	2.1'	2.4'	8.0'	7.7'	33.6	2.5'	3.6'	8.0'	13.5'	11.6	3.6'	7.5'
10.0'	60.6	2.2'	2.2'	10.0'	2.6'	54.5	2.3'	2.4'	10.0'	5.6'	39.1	2.6'	3.0'	10.0'	9.7'	21.2	3.2'	4.6'	10.0'	17.0'	7.4	4.5'	9.5'
12.0'	41.6	2.7'	2.7'	12.0'	3.1'	37.4	2.8'	2.9'	12.0'	6.8'	26.9	3.1'	3.6'	12.0'	11.7'	14.6	3.8'	5.5'	12.0'	20.5'	5.1	5.5'	11.4'
14.0'	30.4	3.2'	3.2'	14.0'	3.7'	27.3	3.3'	3.4'	14.0'	7.9'	19.6	3.7'	4.2'	14.0'	13.7'	10.6	4.5'	6.4'	14.0'	23.9'	3.7	6.4'	13.3'
16.0'	23.1	3.6'	3.6'	16.0'	4.2'	20.8	3.8'	3.9'	16.0'	9.1'	14.9	4.2'	4.9'	16.0'	15.7'	8.1	5.1'	7.4'	16.0'	27.4'	2.8	7.3'	15.3'



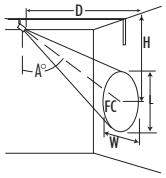


Pendant Track (MTPDN): 32" below ceiling

No Tilt				Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°				
H	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L
10.0'	122.6	1.6'	1.6'	8.0'	1.3'	220.1	1.2'	1.2'	8.0'	2.8'	157.6	1.3'	1.5'	8.0'	4.9'	85.1	1.6'	2.3'	8.0'	8.6'	29.1	2.3'	4.8'
12.0'	73.2	2.0'	2.0'	10.0'	1.8'	110.0	1.6'	1.7'	10.0'	3.9'	78.9	1.8'	2.1'	10.0'	6.9'	42.7	2.2'	3.2'	10.0'	12.0'	14.7	3.2'	6.7'
14.0'	48.6	2.5'	2.5'	12.0'	2.4'	65.8	2.1'	2.2'	12.0'	5.1'	47.2	2.4'	2.7'	12.0'	8.9'	25.6	2.9'	4.2'	12.0'	15.5'	8.9	4.1'	8.6'
16.0'	34.6	3.0'	3.0'	14.0'	2.9'	43.7	2.6'	2.7'	14.0'	6.3'	31.4	2.9'	3.4'	14.0'	10.9'	17.0	3.6'	5.1'	14.0'	19.0'	5.9	5.1'	10.6'
18.0'	25.9	3.4'	3.4'	16.0'	3.4'	31.1	3.1'	3.2'	16.0'	7.4'	22.4	3.4'	4.0'	16.0'	12.9'	12.1	4.2'	6.0'	16.0'	22.4'	4.2	6.0'	12.5'

(Fixture 3.1ft below ceiling)

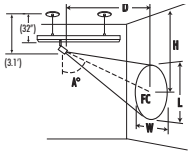
Ceiling (Wall)



Recessed Track (MTRFG and MTRTS)

Vertical Angle (Fixture calculated at aiming point (90°) to horizontal surface)

Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°					Angle A° = 80°				
D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L
1.0'	4.0'	98.5	0.9'	4.2'	2.0'	3.8'	177.5	0.9'	1.9'	3.0'	3.3'	223.1	1.0'	1.4'	6.0'	3.6'	102.5	1.6'	1.9'	8.0'	1.5'	84.8	1.9'	1.9'
1.5'	5.9'	43.8	1.3'	6.4'	3.0'	5.5'	78.9	1.4'	2.9'	4.0'	4.3'	125.5	1.3'	1.9'	7.0'	4.2'	75.3	1.9'	2.2'	9.0'	1.7'	67.0	2.1'	2.1'
2.0'	7.8'	24.6	1.8'	8.5'	4.0'	7.2'	44.4	1.9'	3.9'	5.0'	5.3'	80.3	1.6'	2.3'	8.0'	4.8'	57.6	2.1'	2.5'	10.0'	1.8'	54.3	2.3'	2.4'
2.5'	9.6'	15.8	2.2'	10.6'	5.0'	8.9'	28.4	2.3'	4.8'	6.0'	6.3'	55.8	2.0'	2.8'	9.0'	5.4'	45.5	2.4'	2.8'	11.0'	2.0'	44.8	2.6'	2.6'
3.0'	11.5'	10.9	2.7'	12.7'	6.0'	10.7'	19.7	2.8'	5.8'	7.0'	7.3'	41.0	2.3'	3.3'	10.0'	6.0'	36.9	2.7'	3.1'	12.0'	2.2'	37.7	2.8'	2.9'



Pendant Track (MTPDN): 32" below ceiling

Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°					Angle A° = 80°				
D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L
1.0'	6.9'	98.5	0.9'	4.2'	2.0'	6.6'	177.5	0.9'	1.9'	3.0'	6.1'	223.1	1.0'	1.4'	6.0'	6.5'	102.5	1.6'	1.9'	8.0'	4.4'	84.8	1.9'	1.9'
1.5'	8.8'	43.8	1.3'	6.4'	3.0'	8.4'	78.9	1.4'	2.9'	4.0'	7.1'	125.5	1.3'	1.9'	7.0'	7.1'	75.3	1.9'	2.2'	9.0'	4.5'	67.0	2.1'	2.1'
2.0'	10.6'	24.6	1.8'	8.5'	4.0'	10.1'	44.4	1.9'	3.9'	5.0'	8.1'	80.3	1.6'	2.3'	8.0'	7.7'	57.6	2.1'	2.5'	10.0'	4.7'	54.3	2.3'	2.4'
2.5'	12.5'	15.8	2.2'	10.6'	5.0'	11.8'	28.4	2.3'	4.8'	6.0'	9.1'	55.8	2.0'	2.8'	9.0'	8.3'	45.5	2.4'	2.8'	11.0'	4.9'	44.8	2.6'	2.6'
3.0'	14.4'	10.9	2.7'	12.7'	6.0'	13.6'	19.7	2.8'	5.8'	7.0'	10.1'	41.0	2.3'	3.3'	10.0'	8.8'	36.9	2.7'	3.1'	12.0'	5.1'	37.7	2.8'	2.9'

(Fixture 3.1ft below ceiling)

2020.10.13

MM3-ADJUSTABLE SPOT
ILLUMINATED MODULE (650LM)

PHOTOMETRY

MM307 (650lm, 9W, 20°)

D = Distance from fixture (at ceiling/wall) to ground/wall at FC (center of beam)
H = Distance from ceiling to FC (center of beam)
FC = Footcandle at center of beam
W = Beam width
L = Beam length

MM307B-B20-T30

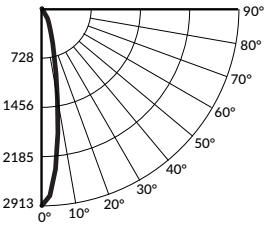
650lm, 9W, 20°, 3000K, CRI: 90

System Power (Watts)	: 8.5W
Test Date	: 5/14/2019
Horiz'l Beam Angle (50%)	: 19.1°
Horiz'l Field Angle (10%)	: 48.7°
Color Temperature (CCT)	: 3069K
CRI:	: 94.7
R9 Value	: 70.5
Lumens Delivered (lm)	: 596.3
CBCP (CD)	: 2913
Volts:	: 24V DC

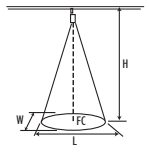
MULTIPLIERS

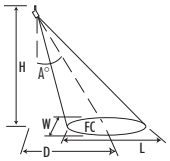
CCT
4000K : 1.24
3500K : 1.10
3000K : 1.00
2700K : 1.02

CANDELA TABULATION



Ceiling (Ground)

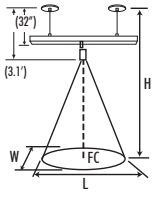


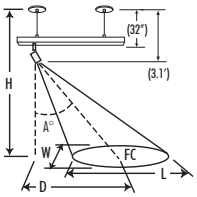


Recessed Track (MTRFG and MTRTS)

Horizontal Angle

No Tilt				Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°				
H	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L
6.0'	90.3	1.9'	1.9'	6.0'	1.5'	80.9	2.0'	2.1'	6.0'	3.3'	58.0	2.2'	2.6'	6.0'	5.7'	31.3	2.7'	4.0'	6.0'	10.1'	10.8	3.9'	8.6'
8.0'	49.4	2.6'	2.6'	8.0'	2.1'	44.3	2.7'	2.8'	8.0'	4.5'	31.8	3.0'	3.5'	8.0'	7.7'	17.2	3.7'	5.4'	8.0'	13.5'	6.0	5.3'	11.5'
10.0'	31.1	3.3'	3.3'	10.0'	2.6'	27.9	3.4'	3.5'	10.0'	5.6'	20.1	3.8'	4.4'	10.0'	9.7'	10.9	4.6'	6.7'	10.0'	17.0'	3.8	6.6'	14.4'
12.0'	21.4	3.9'	3.9'	12.0'	3.1'	19.2	4.1'	4.2'	12.0'	6.8'	13.8	4.6'	5.3'	12.0'	11.7'	7.5	5.6'	8.1'	12.0'	20.5'	2.6	8.0'	17.4'
14.0'	15.6	4.6'	4.6'	14.0'	3.7'	14.0	4.8'	4.9'	14.0'	7.9'	10.1	5.3'	6.2'	14.0'	13.7'	5.5	6.5'	9.5'	14.0'	23.9'	1.9	9.3'	20.3'



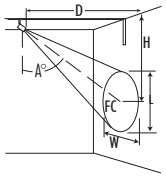


Pendant Track (MTPDN): 32" below ceiling

No Tilt				Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°				
H	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L
8.0'	126.1	1.6'	1.6'	8.0'	1.3'	112.9	1.7'	1.7'	8.0'	2.8'	80.8	1.9'	2.2'	8.0'	4.9'	43.6	2.3'	3.4'	8.0'	8.6'	14.9	3.3'	7.3'
10.0'	62.9	2.3'	2.3'	10.0'	1.8'	56.4	2.4'	2.5'	10.0'	3.9'	40.5	2.7'	3.1'	10.0'	6.9'	21.9	3.3'	4.8'	10.0'	12.0'	7.6	4.7'	10.2'
12.0'	37.6	3.0'	3.0'	12.0'	2.4'	33.7	3.1'	3.2'	12.0'	5.1'	24.2	3.4'	4.0'	12.0'	8.9'	13.1	4.2'	6.1'	12.0'	15.5'	4.6	6.0'	13.2'
14.0'	24.9	3.6'	3.6'	14.0'	2.9'	22.4	3.8'	3.9'	14.0'	6.3'	16.1	4.2'	4.9'	14.0'	10.9'	8.7	5.2'	7.5'	14.0'	19.0'	3.0	7.4'	16.1'
16.0'	17.8	4.3'	4.3'	16.0'	3.4'	16.0	4.5'	4.6'	16.0'	7.4'	11.5	5.0'	5.8'	16.0'	12.9'	6.2	6.1'	8.9'	16.0'	22.4'	2.2	8.7'	19.0'

(Fixture 3.1ft below ceiling)

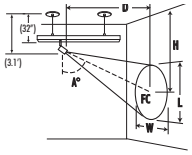
Ceiling (Wall)



Recessed Track (MTRFG and MTRTS)

Vertical Angle (Fixture calculated at aiming point (90°) to horizontal surface)

Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°					Angle A° = 80°				
D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L
1.0'	4.0'	50.5	1.3'	8.3'	2.0'	3.8'	91.0	1.3'	2.9'	2.0'	2.3'	257.5	1.0'	1.4'	3.0'	1.9'	210.2	1.2'	1.4'	5.0'	1.0'	111.3	1.7'	1.7'
1.5'	5.9'	22.4	2.0'	12.4'	3.0'	5.5'	40.5	2.0'	4.4'	3.0'	3.3'	114.4	1.4'	2.1'	4.0'	2.5'	118.3	1.6'	1.8'	6.0'	1.1'	77.3	2.1'	2.1'
2.0'	7.8'	12.6	2.6'	16.6'	4.0'	7.2'	22.8	2.7'	5.9'	4.0'	4.3'	64.4	1.9'	2.8'	5.0'	3.1'	75.7	1.9'	2.3'	7.0'	1.3'	56.8	2.4'	2.4'
2.5'	9.6'	8.1	3.3'	20.7'	5.0'	8.9'	14.6	3.4'	7.4'	5.0'	5.3'	41.2	2.4'	3.5'	6.0'	3.6'	52.6	2.3'	2.7'	8.0'	1.5'	43.5	2.7'	2.8'
3.0'	11.5'	5.6	3.9'	24.9'	6.0'	10.7'	10.1	4.0'	8.8'	6.0'	6.3'	28.6	2.9'	4.2'	7.0'	4.2'	38.6	2.7'	3.2'	9.0'	1.7'	34.3	3.1'	3.1'



Pendant Track (MTPDN): 32" below ceiling

Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°					Angle A° = 80°				
D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L
1.0'	6.9'	50.5	1.3'	8.3'	2.0'	6.6'	91.0	1.3'	2.9'	2.0'	5.1'	257.5	1.0'	1.4'	3.0'	4.8'	210.2	1.2'	1.4'	5.0'	3.8'	111.3	1.7'	1.7'
1.5'	8.8'	22.4	2.0'	12.4'	3.0'	8.4'	40.5	2.0'	4.4'	3.0'	6.1'	114.4	1.4'	2.1'	4.0'	5.4'	118.3	1.6'	1.8'	6.0'	4.0'	77.3	2.1'	2.1'
2.0'	10.6'	12.6	2.6'	16.6'	4.0'	10.1'	22.8	2.7'	5.9'	4.0'	7.1'	64.4	1.9'	2.8'	5.0'	5.9'	75.7	1.9'	2.3'	7.0'	4.2'	56.8	2.4'	2.4'
2.5'	12.5'	8.1	3.3'	20.7'	5.0'	11.8'	14.6	3.4'	7.4'	5.0'	8.1'	41.2	2.4'	3.5'	6.0'	6.5'	52.6	2.3'	2.7'	8.0'	4.4'	43.5	2.7'	2.8'
3.0'	14.4'	5.6	3.9'	24.9'	6.0'	13.6'	10.1	4.0'	8.8'	6.0'	9.1'	28.6	2.9'	4.2'	7.0'	7.1'	38.6	2.7'	3.2'	9.0'	4.5'	34.3	3.1'	3.1'

(Fixture 3.1ft below ceiling)

MM3-ADJUSTABLE SPOT
ILLUMINATED MODULE (650LM)

PHOTOMETRY

MM307 (650lm, 9W, 40°)

D = Distance from fixture (at ceiling/wall) to ground/wall at FC (center of beam)
H = Distance from ceiling to FC (center of beam)
FC = Footcandle at center of beam
W = Beam width
L = Beam length

MM307B-B40-T30

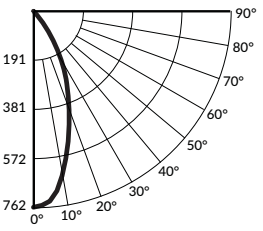
650lm, 9W, 40°, 3000K, CRI: 90

System Power (Watts)	: 8.4W
Test Date	: 5/3/2019
Horiz'l Beam Angle (50%)	: 42.6°
Horiz'l Field Angle (10%)	: 76.9°
Color Temperature (CCT)	: 3069K
CRI:	: 94.8
R9 Value	: 71
Lumens Delivered (lm)	: 464.5
CBCP (CD)	: 762
Volts:	: 24V DC

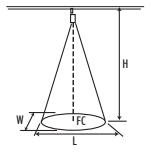
MULTIPLIERS

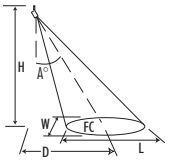
CCT
4000K : 1.24
3500K : 1.10
3000K : 1.00
2700K : 1.02

CANDELA TABULATION



Ceiling (Ground)

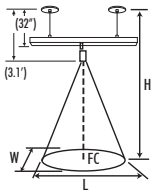


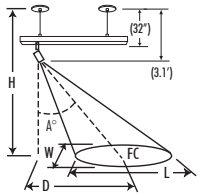


Recessed Track (MTRFG and MTRTS)

Horizontal Angle

No Tilt				Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°				
H	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L
4.0'	56.3	2.9'	2.9'	4.0'	1.0'	50.3	3.0'	3.1'	4.0'	2.1'	35.9	3.3'	4.1'	4.0'	3.7'	19.3	4.1'	6.9'	4.0'	6.6'	6.5	6.0'	21.9'
5.0'	34.8	3.6'	3.6'	5.0'	1.3'	31.1	3.8'	4.0'	5.0'	2.7'	22.3	4.2'	5.2'	5.0'	4.7'	12.0	5.2'	8.7'	5.0'	8.3'	4.1	7.5'	27.6'
6.0'	23.6	4.4'	4.4'	6.0'	1.5'	21.2	4.6'	4.8'	6.0'	3.3'	15.2	5.1'	6.3'	6.0'	5.7'	8.2	6.3'	10.5'	6.0'	10.1'	2.8	9.1'	33.3'
7.0'	17.1	5.2'	5.2'	7.0'	1.8'	15.3	5.4'	5.7'	7.0'	3.9'	11.0	6.0'	7.4'	7.0'	6.7'	5.9	7.4'	12.4'	7.0'	11.8'	2.1	10.6'	39.1'
8.0'	12.9	6.0'	6.0'	8.0'	2.1'	11.6	6.2'	6.5'	8.0'	4.5'	8.3	6.9'	8.4'	8.0'	7.7'	4.5	8.5'	14.2'	8.0'	13.5'	1.6	12.2'	44.8'



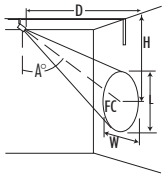


Pendant Track (MTPDN): 32" below ceiling

No Tilt				Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°				
H	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L
6.0'	96.7	2.2'	2.2'	6.0'	0.8'	86.2	2.3'	2.4'	6.0'	3.3'	15.2	5.1'	6.3'	6.0'	2.9'	33.0	3.2'	5.3'	6.0'	5.1'	11.0	4.6'	16.9'
7.0'	52.6	3.0'	3.0'	7.0'	1.0'	47.0	3.1'	3.2'	7.0'	3.9'	11.0	6.0'	7.4'	7.0'	3.9'	18.1	4.3'	7.1'	7.0'	6.8'	6.1	6.1'	22.6'
8.0'	33.0	3.7'	3.7'	8.0'	1.3'	29.5	3.9'	4.1'	8.0'	4.5'	8.3	6.9'	8.4'	8.0'	4.9'	11.4	5.4'	8.9'	8.0'	8.6'	3.9	7.7'	28.3'
9.0'	22.6	4.5'	4.5'	9.0'	1.6'	20.3	4.7'	4.9'	9.0'	5.0'	6.5	7.8'	9.5'	9.0'	5.9'	7.8	6.5'	10.8'	9.0'	10.3'	2.7	9.3'	34.1'
10.0'	16.4	5.3'	5.3'	10.0'	1.8'	14.8	5.5'	5.8'	10.0'	5.6'	5.2	8.7'	10.6'	10.0'	6.9'	5.7	7.6'	12.6'	10.0'	12.0'	2.0	10.8'	39.8'

(Fixture 3.1ft below ceiling)

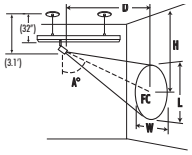
Ceiling (Wall)



Recessed Track (MTRFG and MTRTS)

Vertical Angle (Fixture calculated at aiming point (90°) to horizontal surface)

Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°					Angle A° = 80°				
D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L
1.0'	4.0'	13.2	3.0'	-	1.0'	2.0'	95.3	1.6'	5.7'	2.0'	2.3'	67.4	2.2'	3.7'	2.0'	1.3'	123.7	1.8'	2.2'	2.0'	0.4'	181.9	1.6'	1.6'
1.5'	5.9'	5.9	4.5'	-	1.5'	2.9'	42.3	2.3'	8.6'	2.5'	2.8'	43.1	2.8'	4.6'	2.5'	1.6'	79.2	2.3'	2.7'	3.0'	0.6'	80.9	2.4'	2.4'
2.0'	7.8'	3.3	6.0'	-	2.0'	3.8'	23.8	3.1'	11.5'	3.0'	3.3'	29.9	3.3'	5.5'	3.0'	1.9'	55.0	2.7'	3.3'	4.0'	0.8'	45.5	3.2'	3.2'
2.5'	9.6'	2.1	7.5'	-	2.5'	4.6'	15.2	3.9'	14.3'	3.5'	3.8'	22.0	3.9'	6.4'	3.5'	2.2'	40.4	3.2'	3.8'	5.0'	1.0'	29.1	4.0'	4.0'
3.0'	11.5'	1.5	9.0'	-	3.0'	5.5'	10.6	4.7'	17.2'	4.0'	4.3'	16.8	4.4'	7.4'	4.0'	2.5'	30.9	3.6'	4.4'	6.0'	1.1'	20.2	4.8'	4.8'



Pendant Track (MTPDN): 32" below ceiling

Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°					Angle A° = 80°				
D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L
1.0'	6.9'	13.2	3.0'	-	1.0'	4.9'	95.3	1.6'	5.7'	2.0'	5.1'	67.4	2.2'	3.7'	2.0'	4.2'	123.7	1.8'	2.2'	2.0'	3.4'	181.9	1.6'	1.6'
1.5'	8.8'	5.9	4.5'	-	1.5'	5.8'	42.3	2.3'	8.6'	2.5'	5.6'	43.1	2.8'	4.6'	2.5'	4.5'	79.2	2.3'	2.7'	3.0'	3.6'	80.9	2.4'	2.4'
2.0'	10.6'	3.3	6.0'	-	2.0'	6.6'	23.8	3.1'	11.5'	3.0'	6.1'	29.9	3.3'	5.5'	3.0'	4.8'	55.0	2.7'	3.3'	4.0'	3.8'	45.5	3.2'	3.2'
2.5'	12.5'	2.1	7.5'	-	2.5'	7.5'	15.2	3.9'	14.3'	3.5'	6.6'	22.0	3.9'	6.4'	3.5'	5.1'	40.4	3.2'	3.8'	5.0'	3.9'	29.1	4.0'	4.0'
3.0'	14.4'	1.5	9.0'	-	3.0'	8.4'	10.6	4.7'	17.2'	4.0'	7.1'	16.8	4.4'	7.4'	4.0'	5.4'	30.9	3.6'	4.4'	6.0'	4.1'	20.2	4.8'	4.8'

(Fixture 3.1ft below ceiling)

MM3-ADJUSTABLE SPOT
ILLUMINATED MODULE (650LM)

PHOTOMETRY

MM307 (650lm, 9W, 40° x 70°)

D = Distance from fixture (at ceiling/wall) to ground/wall at FC (center of beam)
H = Distance from ceiling to FC (center of beam)
FC = Footcandle at center of beam
W = Beam width
L = Beam length

MM307B-B4070-T30

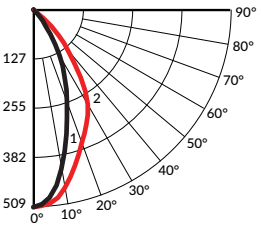
650lm, 9W, 40° x 70°, 3000K, CRI: 90

System Power (Watts)	: 8.4 W
Test Date	: 5/2/2019
Horiz'l Beam Angle (50%)(W)	: 64.1°
Vert. Beam Angle (50%)(L)	: 40.3°
Horiz'l Field Angle (10%)(W)	: 98.2°
Vert. Field Angle (10%)(L)	: 76.2°
Color Temperature (CCT)	: 3058K
CRI:	: 94.7
R9 Value	: 70.7
Lumens Delivered (lm)	: 386.1
CBCP (CD)	: 509
Volts:	: 24V DC

MULTIPLIERS

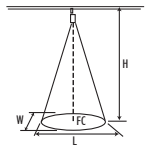
CCT
4000K : 1.24
3500K : 1.10
3000K : 1.00
2700K : 1.02

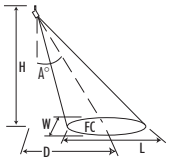
CANDELA TABULATION



Maximum Candela = 509.26 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)

Ceiling (Ground)

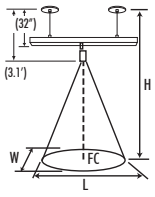


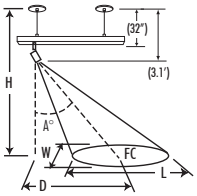


Recessed Track (MTRFG and MTRTS)

Horizontal Angle

No Tilt				Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°				
H	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L
4.0'	37.6	4.6'	2.7'	4.0'	1.0'	33.6	4.8'	2.9'	4.0'	2.1'	24.0	5.4'	3.8'	4.0'	3.7'	12.9	6.6'	6.3'	4.0'	6.6'	4.4	9.6'	18.8'
5.0'	23.2	5.9'	3.4'	5.0'	1.3'	20.8	6.1'	3.7'	5.0'	2.7'	14.9	6.8'	4.8'	5.0'	4.7'	8.0	8.4'	8.0'	5.0'	8.3'	2.7	12.1'	23.7'
6.0'	15.8	7.1'	4.2'	6.0'	1.5'	14.1	7.4'	4.5'	6.0'	3.3'	10.1	8.3'	5.9'	6.0'	5.7'	5.5	10.2'	9.7'	6.0'	10.1'	1.9	14.6'	28.6'
7.0'	11.4	8.4'	4.9'	7.0'	1.8'	10.2	8.7'	5.3'	7.0'	3.9'	7.3	9.7'	6.9'	7.0'	6.7'	4.0	11.9'	11.4'	7.0'	11.8'	1.4	17.1'	33.6'
8.0'	8.6	9.6'	5.6'	8.0'	2.1'	7.7	10.0'	6.1'	8.0'	4.5'	5.6	11.1'	7.9'	8.0'	7.7'	3.0	13.7'	13.1'	8.0'	13.5'	1.0	19.6'	38.5'



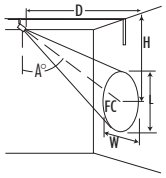


Pendant Track (MTPDN): 32" below ceiling

No Tilt				Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°				
H	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L	H	D	FC	W	L
6.0'	64.6	3.5'	2.1'	6.0'	0.8'	57.6	3.7'	2.2'	6.0'	1.6'	41.0	4.1'	2.9'	6.0'	2.9'	22.0	5.1'	4.8'	6.0'	5.1'	7.4	7.4'	14.5'
7.0'	35.1	4.8'	2.8'	7.0'	1.0'	31.4	5.0'	3.0'	7.0'	2.2'	22.4	5.5'	3.9'	7.0'	3.9'	12.1	6.8'	6.5'	7.0'	6.8'	4.1	9.9'	19.4'
8.0'	22.0	6.0'	3.5'	8.0'	1.3'	19.7	6.3'	3.8'	8.0'	2.8'	14.1	7.0'	5.0'	8.0'	4.9'	7.6	8.6'	8.2'	8.0'	8.6'	2.6	12.4'	24.3'
9.0'	15.1	7.3'	4.3'	9.0'	1.6'	13.5	7.5'	4.6'	9.0'	3.4'	9.7	8.4'	6.0'	9.0'	5.9'	5.2	10.4'	9.9'	9.0'	10.3'	1.8	14.9'	29.3'
10.0'	11.0	8.5'	5.0'	10.0'	1.8'	9.9	8.8'	5.4'	10.0'	3.9'	7.1	9.9'	7.0'	10.0'	6.9'	3.8	12.1'	11.6'	10.0'	12.0'	1.3	17.4'	34.2'

(Fixture 3.1ft below ceiling)

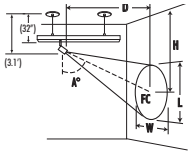
Ceiling (Wall)



Recessed Track (MTRFG and MTRTS)

Vertical Angle (Fixture calculated at aiming point (90°) to horizontal surface)

Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°					Angle A° = 80°				
D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L
1.0'	4.0'	8.8	4.8'	-	1.0'	2.0'	63.6	2.5'	4.9'	2.0'	2.3'	45.0	3.5'	3.4'	2.0'	1.3'	82.7	2.9'	2.0'	2.0'	0.4'	121.5	2.5'	1.5'
1.5'	5.9'	3.9	7.3'	-	1.5'	2.9'	28.3	3.8'	7.4'	2.5'	2.8'	28.8	4.4'	4.2'	2.5'	1.6'	52.9	3.6'	2.6'	3.0'	0.6'	54.0	3.8'	2.3'
2.0'	7.8'	2.2	9.7'	-	2.0'	3.8'	15.9	5.0'	9.8'	3.0'	3.3'	20.0	5.3'	5.1'	3.0'	1.9'	36.7	4.3'	3.1'	4.0'	0.8'	30.4	5.1'	3.0'
2.5'	9.6'	1.4	12.1'	-	2.5'	4.6'	10.2	6.3'	12.3'	3.5'	3.8'	14.7	6.2'	5.9'	3.5'	2.2'	27.0	5.1'	3.6'	5.0'	1.0'	19.4	6.4'	3.8'
3.0'	11.5'	1.0	14.5'	-	3.0'	5.5'	7.1	7.5'	14.8'	4.0'	4.3'	11.2	7.1'	6.8'	4.0'	2.5'	20.7	5.8'	4.1'	6.0'	1.1'	13.5	7.6'	4.6'



Pendant Track (MTPDN): 32" below ceiling

Angle A° = 15°					Angle A° = 30°					Angle A° = 45°					Angle A° = 60°					Angle A° = 80°				
D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L	D	H	FC	W	L
1.0'	6.9'	8.8	4.8'	-	1.0'	4.9'	63.6	2.5'	4.9'	2.0'	5.1'	45.0	3.5'	3.4'	2.0'	4.2'	82.7	2.9'	2.0'	2.0'	3.3'	121.5	2.5'	1.5'
1.5'	8.8'	3.9	7.3'	-	1.5'	5.8'	28.3	3.8'	7.4'	2.5'	5.6'	28.8	4.4'	4.2'	2.5'	4.5'	52.9	3.6'	2.6'	3.0'	3.5'	54.0	3.8'	2.3'
2.0'	10.6'	2.2	9.7'	-	2.0'	6.6'	15.9	5.0'	9.8'	3.0'	6.1'	20.0	5.3'	5.1'	3.0'	4.8'	36.7	4.3'	3.1'	4.0'	3.7'	30.4	5.1'	3.0'
2.5'	12.5'	1.4	12.1'	-	2.5'	7.5'	10.2	6.3'	12.3'	3.5'	6.6'	14.7	6.2'	5.9'	3.5'	5.1'	27.0	5.1'	3.6'	5.0'	3.8'	19.4	6.4'	3.8'
3.0'	14.4'	1.0	14.5'	-	3.0'	8.4'	7.1	7.5'	14.8'	4.0'	7.1'	11.2	7.1'	6.8'	4.0'	5.4'	20.7	5.8'	4.1'	6.0'	4.0'	13.5	7.6'	4.6'

(Fixture 3.1ft below ceiling)