[MP LIGHTING]

L182

INTERIOR

LED integrated Wine Rack System

- Dry location

Ordering Information

Clear Form

Date : _____ Column : _____

Project : _____ Note : _____

Type : _____ _____

Specifications

Luminaire comprises of 3 components that need to be specified separately: Mounting & Rail, Arms, and LED drivers.

Luminaire | Example Code: RAL182-8-BA // WR-MB-BA // L182T-2-W22S-N-FS-BA // L182M-W22S-N-FS-1V-BA // L182B-1V-BA // LED12W350iB

MOUNTING: ☐ Wall Mount ☐ Floor-to-Ceiling Mount

COMPONENT 1 – *RAIL*

Rail	Rail Length [1.1]	Finish
RAL182		
RAL-182	**X** custom (by foot)	**Aluminum Finishes:** **BA** black anodized

COMPONENT 2 – *MOUNTING*

Mounting Bracket [2.1]	End Cap [2.2] (optional)
WR-MB-BA mounting bracket	**WR-END-BA** end cap

COMPONENT 3 – *ARMS*

Product [3.1]	CCT & CRI	Beam Angle	Accessories	Cross Bar Length	Finish	Quantity [3.4]
L182T						

Product [3.2]	CCT & CRI	Beam Angle	Accessories	Cross Bar	Finish	Quantity
L182M						

Product [3.3]	Cross Bar	Finish	Quantity [3.4]
L182B			

CCT & CRI	**W22S** 2200K 80+ **W27H** 2700K 90+ **W30H** 3000K 90+ **W35H** 3500K 90+ **W40H** 4000K 90+
Beam Angle	**S** spot 12° **N** narrow flood 30° **F** flood 45° **W** wide flood 120°
Accessories	**NA** no accessory **AS** angled shroud **FS** full shroud **HS** half shroud
Cross Bar Length [3.5]	**4** long arm length **2** regular arm length **1** short arm length
Cross Bar	**1A** single neck view **2A** double neck view **1B** single label view **1BS** short arm single label view **2B** double label view **1C** single label view with holder **2C** double label view with holder **4B** 4 bottle label view [3.6] **1V** vertical bottle holder
Finish	**BA** black anodized

COMPONENT 4 – *LED DRIVER*

Product (*1 driver per column*)		Quantity
LED12W350iP-0B	12W, ELV dimmable (for 2-8 1W LEDs)	**X** custom
LED18W350iP-01B	18W, ELV dimmable (for 4-12 1W LEDs)	
LED18W350iZ-01B	18W, 0-10V dimmable (for 1-12 1W LEDs)	
LED30W350iZ-01B	30W, 0-10V dimmable (for 1-14 1W LEDs)	

System Components (Order Separately)

Remote Driver:

Control System:

On/Off | Dimming ELV or 0-10 dimming
Other options (consult factory) TRIAC/MLV, DMX, DALI, Casambi

[MP LIGHTING]

L182

INTERIOR

LED integrated Wine Rack System

- Dry location

Important Notes

Specification

1.1 10ft (3.05m) max. recommended length.
2.1 Required for Floor-to-Ceiling Mount. Includes top and bottom bracket (sold separately).
2.2 End Cap is only compatible with Wall Mounted installations.
3.1 Top Arm Module has LED and no cross bars.
3.2 Middle Arm Module has LED and cross bars.
3.3 Bottom Arm Module has cross bars and no LED.
3.4 Quantity of top and bottom arms should match quantity of columns for single sided installations.
3.5 Long arm length is compatible with 4B arms. Regular arm length is compatible with 1A, 2A, 1B, 2B, 1C, 2C, and 1V arms. Short arm length is compatible with 1BS arms.
3.6 When 4B cross bar length is chosen in any of the top, middle or bottom category, the rest of the cross bars must also be 4B cross bar length accordingly unless stated otherwise. 4B NOT available with Floor-to-Ceiling mount.

Warranty Notes & Disclaimer

Malfunction and damage to product due to incompatible dimming system or misuse will not be covered under warranty. Consult MP Lighting for recommended drivers. If the luminaire has an option to be installed with a dimming control system, consult a dimming system manufacturer with minimum load before installing. MP Lighting reserves the right, at its sole discretion, at any time and without notice, to make design changes to any of our products. Consult MP Lighting website for most updated documentation.

Performance

Wattage	Forward Current	Power Consumption Budget per Luminaire (including driver)	LED output (Source)	Luminaire Output (Delivered)
1W	350mA	1.3W	110 lm	64.7-95.8 lm

Application

Environment	Dry Location approved. IP 40. Consult factory for higher IP ratings.
Mounting	**Wall Mount:** Can be mounted directly to wall Up to 8ft (2.44m) maximum. Please contact factory for custom length taller than 8ft (2.44m) **Floor-to-Ceiling Mount:** Can be mounted freely from ceiling to floor – Mounting bracket (WR-MB, sold separately). Up to 8ft (2.44m) maximum.

Electrical

Power Supplies	Remote LED drivers (120-277V AC input, **constant current output**): Luminaires to be wired in series.
Control	**On/off control | Dimming:** ELV or 0-10V dimming with appropriate drivers **Other options (consult factory):** TRIAC/MLV, DMX, DALI, Casambi

Luminaire Construction

LED Light Source	**W22S =** CCT: 2200K, CRI (Ra): 80+, Colour Consistency: 3SDCM **W27H =** CCT: 2700K, CRI (Ra): 90+, Colour Consistency: 2SDCM **W30H =** CCT: 3000K, CRI (Ra): 90+, Colour Consistency: 2SDCM **W35H =** CCT: 3500K, CRI (Ra): 90+, Colour Consistency: 2SDCM **W40H =** CCT: 4000K, CRI (Ra): 90+, Colour Consistency: 2SDCM
Material	Black anodized aluminum
Warranty & LED Life	5 years limited warranty. Estimated useful life of LED is 50,000 hours.

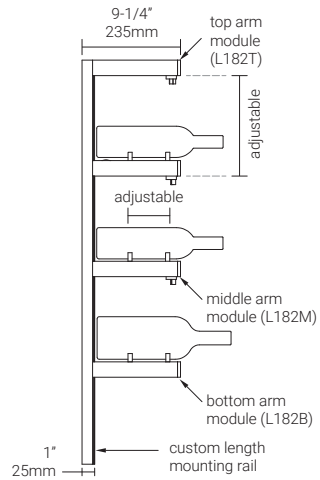
Order Separately

System Components	**Power supplies:** remote driver Please consult factory or visit Recommended Drivers for available driver options.

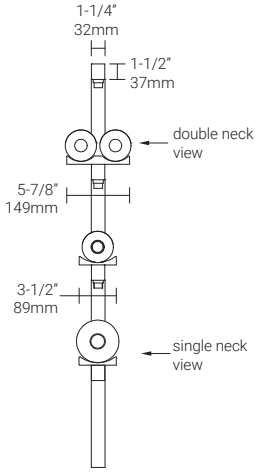
Mounting Options & Dimensions

Luminaire Dimensions (shown with 1A/2A)

Luminaire

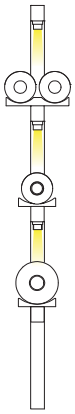


Front View



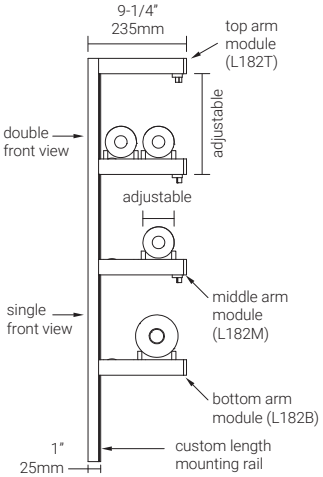
3D View

Beam

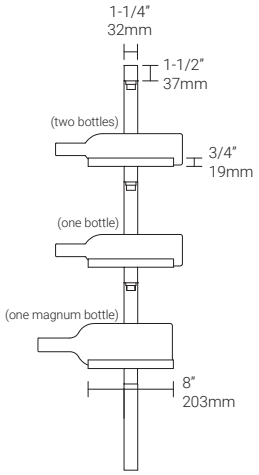


Luminaire Dimensions (shown with 1B/2B)

Luminaire

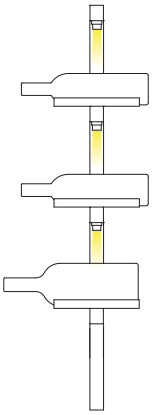


Front View



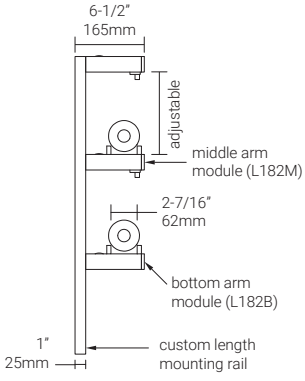
3D View

Beam

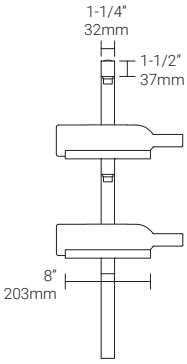


Luminaire Dimensions (shown with 1BS)

Luminaire

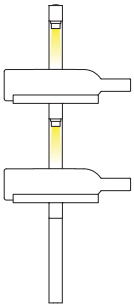


Front View



3D View

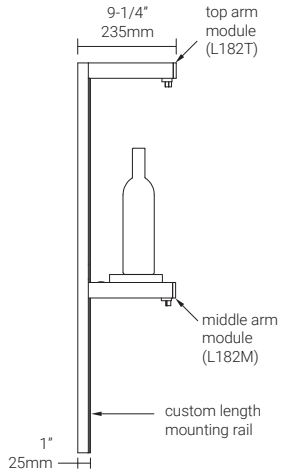
Beam



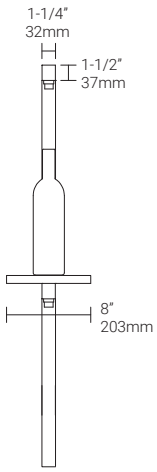
Mounting Options & Dimensions

Luminaire Dimensions (shown with 1V)

Luminaire

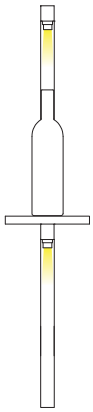


Front View



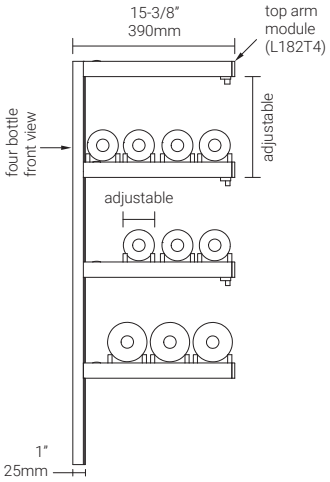
3D View

Beam

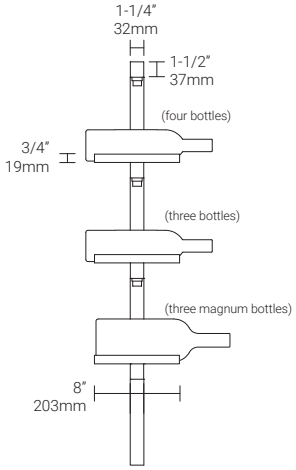


Luminaire Dimensions (shown with 4B)

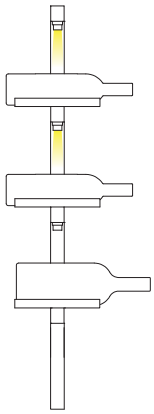
Luminaire



Front View

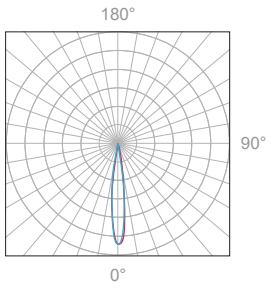


3D View



1W, 3000K, 90+ CRI, 12°

Polar Candela Distribution With NA (no accessories)



Beam width shown with NA (no accessories)

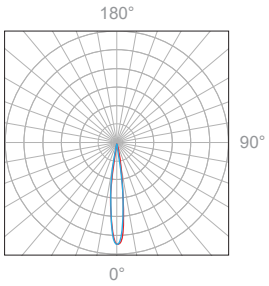
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.0ft	0.30m	605fc	0.3ft	0.09m	0.3ft	0.09m
2.0ft	0.61m	151fc	0.6ft	0.18m	0.6ft	0.18m
3.0ft	0.91m	67.2fc	0.9ft	0.27m	0.9ft	0.27m
4.0ft	1.22m	37.8fc	1.2ft	0.36m	1.2ft	0.36m
5.0ft	1.52m	24.2fc	1.5ft	0.45m	1.6ft	0.48m
6.0ft	1.83m	16.8fc	1.8ft	0.54m	1.9ft	0.58m

Delivered Lumen: 92.1 lm
Vertical Beam Spread: 17.3°
Horizontal Beam Spread: 17.7°

Tested on 23/05/2025

Polar Candela Distribution With HS (half shroud)



Beam width shown with HS (half shroud)

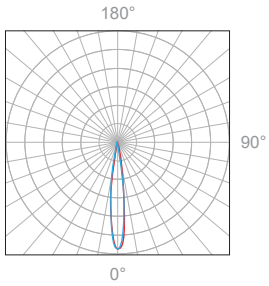
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.0ft	0.30m	613fc	0.3ft	0.09m	0.3ft	0.09m
2.0ft	0.61m	153fc	0.6ft	0.18m	0.6ft	0.18m
3.0ft	0.91m	68.1fc	0.9ft	0.27m	0.9ft	0.27m
4.0ft	1.22m	38.3fc	1.2ft	0.36m	1.2ft	0.36m
5.0ft	1.52m	24.5fc	1.5ft	0.45m	1.5ft	0.45m
6.0ft	1.83m	17.0fc	1.8ft	0.54m	1.8ft	0.54m

Delivered Lumen: 89.3 lm
Vertical Beam Spread: 17.1°
Horizontal Beam Spread: 17.3°

Tested on 23/05/2025

Polar Candela Distribution With FS (full shroud)



Beam width shown with FS (full shroud)

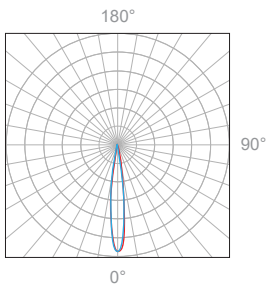
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.0ft	0.30m	619fc	0.3ft	0.09m	0.3ft	0.09m
2.0ft	0.61m	155fc	0.6ft	0.18m	0.6ft	0.18m
3.0ft	0.91m	68.8fc	0.9ft	0.27m	0.9ft	0.27m
4.0ft	1.22m	38.7fc	1.2ft	0.36m	1.2ft	0.36m
5.0ft	1.52m	24.8fc	1.5ft	0.45m	1.5ft	0.45m
6.0ft	1.83m	17.2fc	1.8ft	0.54m	1.7ft	0.51m

Delivered Lumen: 83.8 lm
Vertical Beam Spread: 16.7°
Horizontal Beam Spread: 16.5°

Tested on 23/05/2025

Polar Candela Distribution With AS (angled shroud)



Beam width shown with AS (angled shroud)

Illuminance at a Distance

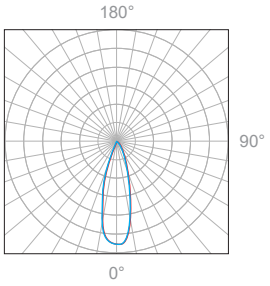
Distance		Center Beam fc	Beam Width			
1.0ft	0.30m	555fc	0.3ft	0.09m	0.3ft	0.09m
2.0ft	0.61m	139fc	0.7ft	0.21m	0.7ft	0.21m
3.0ft	0.91m	61.6fc	1.0ft	0.30m	1.0ft	0.30m
4.0ft	1.22m	34.7fc	1.3ft	0.39m	1.3ft	0.39m
5.0ft	1.52m	22.2fc	1.6ft	0.48m	1.6ft	0.48m
6.0ft	1.83m	15.4fc	2.0ft	0.61m	2.0ft	0.61m

Delivered Lumen: 88.7 lm
Vertical Beam Spread: 18.6°
Horizontal Beam Spread: 18.5°

Tested on 23/05/2025

1W, 3000K, 90+ CRI, 30°

Polar Candela Distribution With NA (no accessories)



Beam width shown with NA (no accessories)

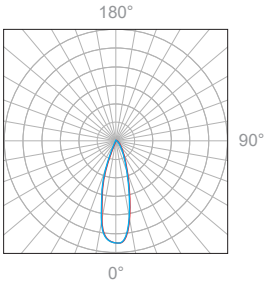
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.0ft	0.30m	439fc	0.4ft	0.12m	0.4ft	0.12m
2.0ft	0.61m	110fc	0.8ft	0.24m	0.8ft	0.24m
3.0ft	0.91m	48.8fc	1.3ft	0.39m	1.3ft	0.39m
4.0ft	1.22m	27.4fc	1.7ft	0.51m	1.7ft	0.51m
5.0ft	1.52m	17.6fc	2.1ft	0.64m	2.1ft	0.64m
6.0ft	1.83m	12.2fc	2.5ft	0.76m	2.5ft	0.76m

Delivered Lumen: 95.8 lm
Vertical Beam Spread: 23.9°
Horizontal Beam Spread: 23.9°

Tested on 23/05/2025

Polar Candela Distribution With HS (half shroud)



Beam width shown with HS (half shroud)

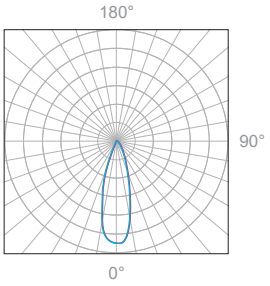
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.0ft	0.30m	439fc	0.4ft	0.12m	0.4ft	0.12m
2.0ft	0.61m	110fc	0.8ft	0.24m	0.9ft	0.27m
3.0ft	0.91m	48.8fc	1.2ft	0.36m	1.3ft	0.39m
4.0ft	1.22m	27.4fc	1.6ft	0.48m	1.7ft	0.51m
5.0ft	1.52m	17.6fc	2.1ft	0.64m	2.2ft	0.67m
6.0ft	1.83m	12.2fc	2.5ft	0.76m	2.6ft	0.79m

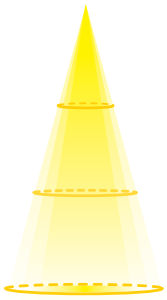
Delivered Lumen: 94.2 lm
Vertical Beam Spread: 23.2°
Horizontal Beam Spread: 24.4°

Tested on 23/05/2025

Polar Candela Distribution With FS (full shroud)



Beam width shown with FS (full shroud)



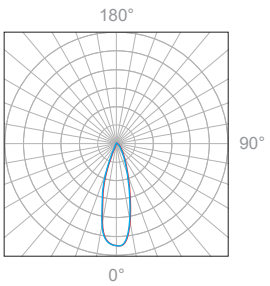
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.0ft	0.30m	455fc	0.4ft	0.12m	0.4ft	0.12m
2.0ft	0.61m	114fc	0.9ft	0.27m	0.8ft	0.24m
3.0ft	0.91m	50.6fc	1.3ft	0.39m	1.2ft	0.36m
4.0ft	1.22m	28.4fc	1.7ft	0.51m	1.6ft	0.48m
5.0ft	1.52m	18.2fc	2.1ft	0.64m	2.0ft	0.61m
6.0ft	1.83m	12.6fc	2.6ft	0.79m	2.4ft	0.73m

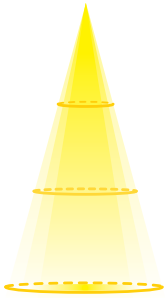
Delivered Lumen: 89.1 lm
Vertical Beam Spread: 24°
Horizontal Beam Spread: 22.5°

Tested on 23/05/2025

Polar Candela Distribution With AS (angled shroud)



Beam width shown with AS (angled shroud)



Illuminance at a Distance

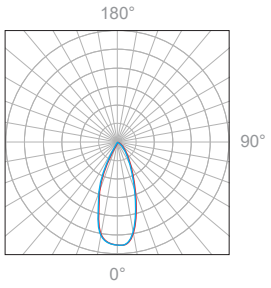
Distance		Center Beam fc	Beam Width			
1.0ft	0.30m	439fc	0.4ft	0.12m	0.4ft	0.12m
2.0ft	0.61m	110fc	0.8ft	0.24m	0.9ft	0.27m
3.0ft	0.91m	48.8fc	1.2ft	0.36m	1.3ft	0.39m
4.0ft	1.22m	27.4fc	1.6ft	0.48m	1.7ft	0.51m
5.0ft	1.52m	17.6fc	2.0ft	0.61m	2.1ft	0.64m
6.0ft	1.83m	12.2fc	2.4ft	0.73m	2.5ft	0.76m

Delivered Lumen: 90.5 lm
Vertical Beam Spread: 22.6°
Horizontal Beam Spread: 23.8°

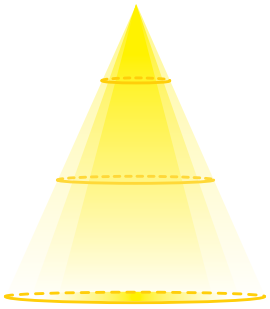
Tested on 23/05/2025

1W, 3000K, 90+ CRI, 45°

Polar Candela Distribution With NA (no accessories)



Beam width shown with NA (no accessories)



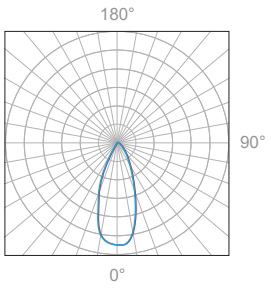
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.0ft	0.30m	116fc	0.9ft	0.27m	0.9ft	0.27m
2.0ft	0.61m	28.9fc	1.8ft	0.54m	1.8ft	0.54m
3.0ft	0.91m	12.9fc	2.7ft	0.82m	2.7ft	0.82m
4.0ft	1.22m	7.24fc	3.5ft	1.06m	3.6ft	1.09m
5.0ft	1.52m	4.63fc	4.4ft	1.34m	4.6ft	1.40m
6.0ft	1.83m	3.22fc	5.3ft	1.61m	5.5ft	1.67m

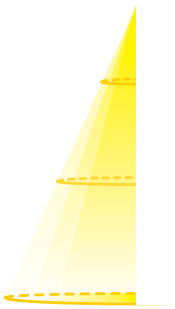
Delivered Lumen: 86.3 lm
Vertical Beam Spread: 47.9°
Horizontal Beam Spread: 49°

Tested on 23/05/2025

Polar Candela Distribution With HS (half shroud)



Beam width shown with HS (half shroud)



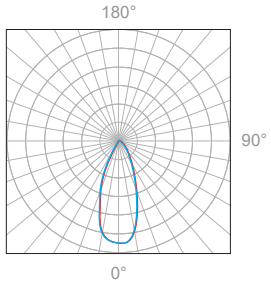
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.0ft	0.30m	117fc	0.9ft	0.27m	0.9ft	0.27m
2.0ft	0.61m	29.3fc	1.7ft	0.51m	1.7ft	0.51m
3.0ft	0.91m	13.0fc	2.6ft	0.79m	2.6ft	0.79m
4.0ft	1.22m	7.34fc	3.5ft	1.06m	3.4ft	1.03m
5.0ft	1.52m	4.69fc	4.3ft	1.31m	4.3ft	1.31m
6.0ft	1.83m	3.26fc	5.2ft	1.58m	5.1ft	1.55m

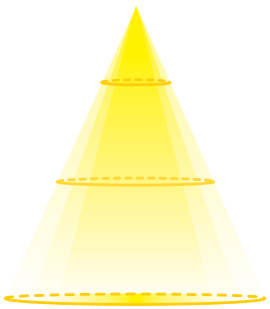
Delivered Lumen: 82.7 lm
Vertical Beam Spread: 47°
Horizontal Beam Spread: 46.2°

Tested on 23/05/2025

Polar Candela Distribution With FS (full shroud)



Beam width shown with FS (full shroud)



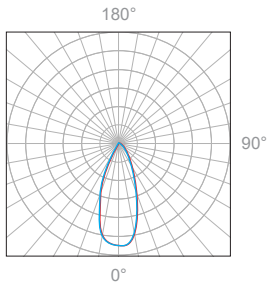
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.0ft	0.30m	116fc	0.8ft	0.24m	0.8ft	0.24m
2.0ft	0.61m	28.9fc	1.6ft	0.48m	1.6ft	0.48m
3.0ft	0.91m	12.9fc	2.4ft	0.73m	2.5ft	0.76m
4.0ft	1.22m	7.24fc	3.3ft	1.00m	3.3ft	1.00m
5.0ft	1.52m	4.63fc	4.1ft	1.24m	4.1ft	1.24m
6.0ft	1.83m	3.22fc	4.9ft	1.49m	4.9ft	1.49m

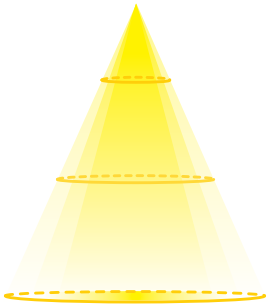
Delivered Lumen: 73.4 lm
Vertical Beam Spread: 44.4°
Horizontal Beam Spread: 44.5°

Tested on 23/05/2025

Polar Candela Distribution With AS (angled shroud)



Beam width shown with AS (angled shroud)



Illuminance at a Distance

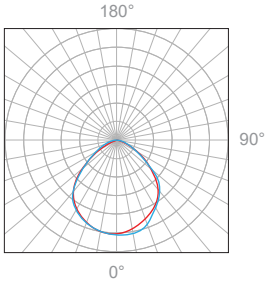
Distance		Center Beam fc	Beam Width			
1.0ft	0.30m	135fc	0.8ft	0.24m	0.8ft	0.24m
2.0ft	0.61m	33.8fc	1.6ft	0.48m	1.7ft	0.51m
3.0ft	0.91m	15.0fc	2.5ft	0.76m	2.5ft	0.76m
4.0ft	1.22m	8.44fc	3.3ft	1.00m	3.3ft	1.00m
5.0ft	1.52m	5.40fc	4.1ft	1.24m	4.1ft	1.24m
6.0ft	1.83m	3.75fc	4.9ft	1.49m	5.0ft	1.52m

Delivered Lumen: 87.4 lm
Vertical Beam Spread: 44.6°
Horizontal Beam Spread: 44.9°

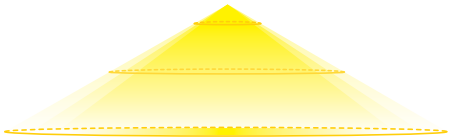
Tested on 23/05/2025

1W, 3000K, 90+ CRI, 120°

Polar Candela Distribution With NA (no accessories)



Beam width shown with NA (no accessories)



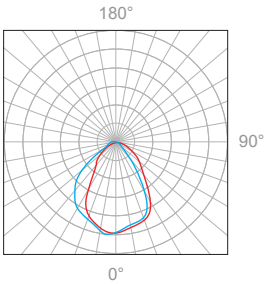
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.0ft	0.30m	38.6fc	2.3ft	0.70m	2.3ft	0.70m
2.0ft	0.61m	9.65fc	4.5ft	1.37m	4.5ft	1.37m
3.0ft	0.91m	4.29fc	6.8ft	2.07m	6.8ft	2.07m
4.0ft	1.22m	2.41fc	9.1ft	2.77m	9.1ft	2.77m
5.0ft	1.52m	1.54fc	11.4ft	3.47m	11.3ft	3.44m
6.0ft	1.83m	1.07fc	13.6ft	4.14m	13.6ft	4.14m

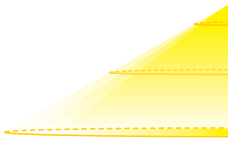
Delivered Lumen: 84.1 lm
Vertical Beam Spread: 97.3°
Horizontal Beam Spread: 97.2°

Tested on 23/05/2025

Polar Candela Distribution With HS (half shroud)



Beam width shown with HS (half shroud)



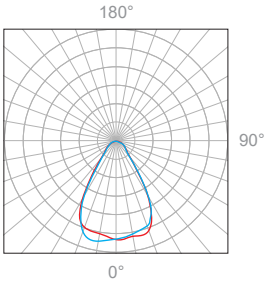
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.0ft	0.30m	40.2fc	2.4ft	0.73m	1.8ft	0.54m
2.0ft	0.61m	10.1fc	4.9ft	1.49m	3.6ft	1.09m
3.0ft	0.91m	4.47fc	7.3ft	2.22m	5.4ft	1.64m
4.0ft	1.22m	2.51fc	9.7ft	2.95m	7.2ft	2.19m
5.0ft	1.52m	1.61fc	12.1ft	3.68m	9.0ft	2.74m
6.0ft	1.83m	1.12fc	14.6ft	4.45m	10.8ft	3.29m

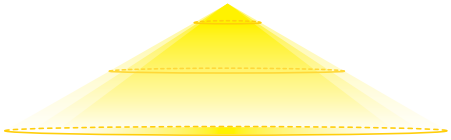
Delivered Lumen: 71.4 lm
Vertical Beam Spread: 101.1°
Horizontal Beam Spread: 83.9°

Tested on 23/05/2025

Polar Candela Distribution With FS (full shroud)



Beam width shown with FS (full shroud)



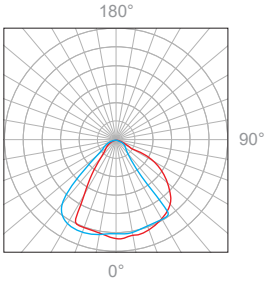
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
3.0ft	0.91m	40.2fc	0.9ft	0.27m	1.2ft	0.37m
6.0ft	1.83m	10.1fc	1.8ft	0.54m	2.4ft	0.73m
9.0ft	2.74m	4.47fc	2.7ft	0.82m	3.6ft	1.10m
12.0ft	3.66m	2.51fc	3.6ft	1.09m	4.8ft	1.46m
15.0ft	4.57m	1.61fc	4.4ft	1.34m	6.0ft	1.83m
18.0ft	5.49m	1.12fc	5.3ft	1.61m	7.2ft	2.19m

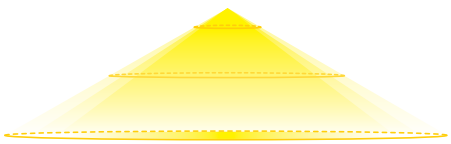
Delivered Lumen: 64.7 lm
Vertical Beam Spread: 48°
Horizontal Beam Spread: 61.7°

Tested on 23/05/2025

Polar Candela Distribution With AS (angled shroud)



Beam width shown with AS (angled shroud)



Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
3.0ft	0.91m	50.8fc	1.9ft	0.58m	1.8ft	0.54m
6.0ft	1.83m	12.7fc	3.8ft	1.15m	3.7ft	1.12m
9.0ft	2.74m	5.64fc	5.7ft	1.73m	5.5ft	1.67m
12.0ft	3.66m	3.17fc	7.6ft	2.31m	7.4ft	2.25m
15.0ft	4.57m	2.03fc	9.5ft	2.89m	9.2ft	2.80m
18.0ft	5.49m	1.41fc	11.3ft	3.44m	11.1ft	3.38m

Delivered Lumen: 77.2 lm
Vertical Beam Spread: 86.8°
Horizontal Beam Spread: 85.5°

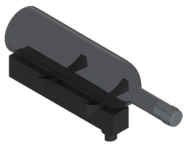
Tested on 23/05/2025

Appendix

Aluminum Finishes

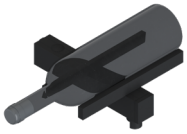
BA black anodized

Bottle Holder Options

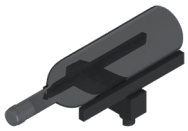


1A single neck view

2A double neck view



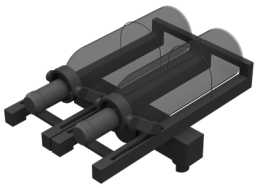
1B single label view



1BS short arm single label view

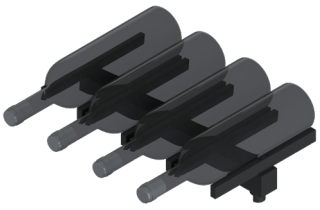
2B double label view

1C single label view with holder



2C double label view with holder

1V vertical bottle holder



4B 4 bottle label view