

RAY

Architectural Outdoor Emergency Wall Pack

COMPACT ELEGANCE FOR DEPENDABLE INDOOR AND OUTDOOR EMERGENCY LIGHTING.

Nature's Elegance. Unwavering Light. The Ray Series draws inspiration from the scalloped silhouette of a stingray—fluid, balanced, and beautifully understated. Its softly contoured profile blends seamlessly into any setting, gliding into its surroundings while delivering unwavering emergency illumination for indoor and outdoor applications. With versatile variations, the Ray Series offers tailored solutions that unite form and function in perfect motion.

The compact Ray is available in multiple configurations:

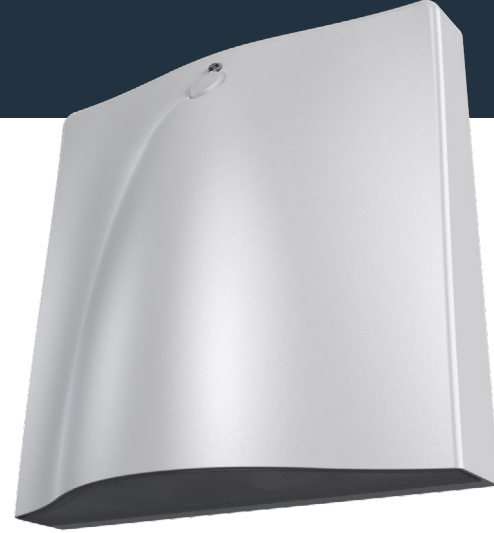
- **AC Operation (Ray-AC)** – For general lighting and/or for general lighting sustained by a remote AC line voltage emergency power supply, or as a normally-off luminaire powered by a remote AC line voltage emergency power supply. Features field-selectable color temperature: 3000K, 4000K, or 5000K.
- **Self-Contained Battery Backup (Ray-EM)** – Provides both general lighting and emergency operation, or emergency-only operation.
- **Remote Head (Ray-RH)** – 3–12 V DC remote emergency power supply with field-selectable power rating of 1W, 2W, or 3W for general lighting, or 3–12 V DC remote emergency lighting.
- Ray-AC and Ray-EM models also feature a **field-selectable photo cell** for dusk-to-dawn operation.

CONSTRUCTION

- IP65 wet location listed for indoor and outdoor applications
- Rugged die-cast aluminum construction
- Durable UV-resistant outdoor powder coat finish, available in Bronze, White, or Black
- IK08 impact protection rating
- Latching stainless-steel spring clips lock housing to back plate for easy installation without visible hardware; concealed security locking screw provided
- One-piece UV-resistant polycarbonate optic lens assembly
- Dark Sky compliant 90° full cut-off with optimized optical distribution
- Long-life silicone rubber seal
- EM models include low-profile sealed Push-to-Test switch
- Universal field-selectable knockout mounting pattern with pre-applied gasket seal
- Wall mounts to a 4" round wet-location box (2.75" centers), single-gang wet-location or indoor switch box (3.3" centers), or a 3" octagonal box (3.5" centers)

ELECTRICAL

- Field-selectable universal 120–277 VAC, 60 Hz input (Ray-AC and Ray-EM); 3–12 VDC input (Ray-RH)



- Available as AC-only (Ray-AC), self-contained battery backup (Ray-EM), or remote head (Ray-RH) powered by EVO, SEN, or other 3–12 VDC supplies
- Power consumption: Ray-AC and Ray-EM: 9W max; Ray-RH: field-selectable 1W, 2W, or 3W
- EM and AC models feature field-selectable internal photocell for dusk-to-dawn operation; with photocell off, units may be configured for remote switching or continuous operation
- Subtle, flush-mounted, dual-purpose test switch and indicator
- Ray-EM includes a 3.2V 1500 mAh high-temperature, long-life, maintenance-free Lithium Iron Phosphate (LiFePO₄) battery with environmentally friendly end-of-life cycling
- Brownout sensing ensures emergency illumination during low line voltage conditions
- Self-compensating, microprocessor-controlled solid-state charger provides extended float life and rapid recharge
- Zero-current LVCO ensures positive charge acceptance after extended discharge
- Recharge time: 24 hours; emergency discharge time: 90 minutes
- Ambient temperature range: Ray-EM: 40°F (5°C) to 122°F (50°C); Ray-AC: -4°F (-20°C) to 122°F (50°C); Ray-RH: -30°F (-22°C) to 122°F (50°C)

ILLUMINATION

- Ray-EM: Three LED's produce 600 lumens in general lighting (AC) mode and 300 lumens in emergency lighting battery mode, providing spacing up to 28' for a 6' path of egress at 7.5' mounting height on an external wall in emergency mode (see spacing charts). Color temperature 4009, CRI 80+
- Ray-AC: Multiple LEDs produce a nominal 750 lumens, providing spacing up to 41' for a 6' path of egress at 9' mounting height on an external wall (see spacing charts). Field-selectable color temperature 3000K, 4000K, 5000K, CRI 80+
- Ray-RH: Three LEDs with field-selectable power ratings: 3W = 300 lumens, 2W = 200 lumens, 1W = 100 lumens (see spacing charts for each power rating). Color temperature 4000K, CRI 80+

CERTIFICATION

- Tested, Approved, and Listed by Underwriters Laboratories in compliance with UL924
- Meets or exceeds all performance standards required by NFPA 101 Life Safety Code, NEC 70, and OSHA
- IP65 certified
- Meets Dark Sky compliance

WARRANTY

- 5 year limited warranty - view complete warranty terms online at www.evenlite.com/terms-warranty.

ORDERING GUIDE

Example: RAY-AC-BZ

MODEL	OPERATION	HOUSING COLOR
RAY	AC AC Only	BZ Bronze
	EM Battery Backup	BK Black
	RH 3-12VDC Remote Only	WH White
RAY		

Fill in fields from categories above and complete type and part number.

Type No:

Full Part No:

ADDITIONAL IMAGES



BLACK FINISH

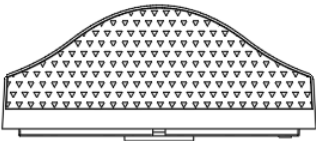
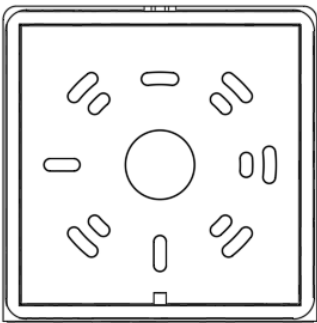
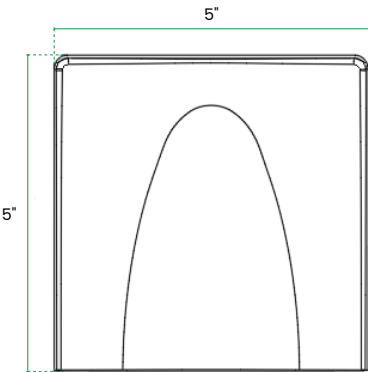


BRONZE FINISH

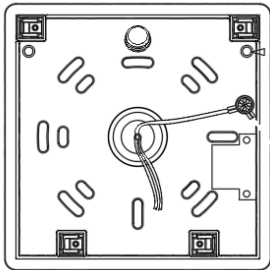
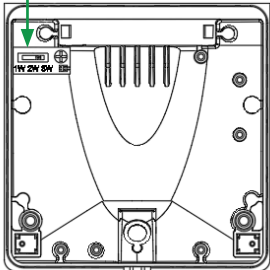
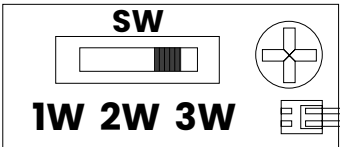


WHITE FINISH

DIMENSIONS



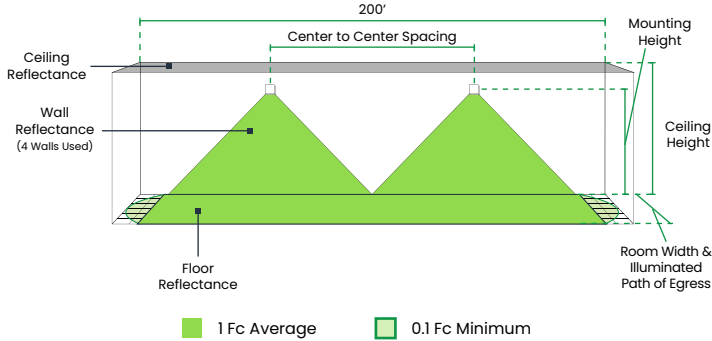
FIELD-SELECTABLE POWER FOR REMOTE HEAD VERSION



SPACING GUIDES

Note: Spacing charts are for general guidance based on NFPA 101: 1 fc avg, 0.1 fc min, 40:1 max/min uniformity. Unless otherwise noted, reflectance values are Ceiling 80% / Walls 50% / Floor 20%. Performance may vary by installation and environment.

ENCLOSED CORRIDOR SPACING DIAGRAM



RAY-AC (Wall Mount - Enclosed Corridor)

Room Dimensions: 200' x 6' x Ceiling Height
 Reflectance: 80% (Ceiling) | 50% (Wall) | 20% (Floor)
 Path of Egress: 6' Wide

MOUNTING HEIGHT	CEILING HEIGHT	SPACING CENTER TO CENTER	NFPA 101 REQUIREMENTS		
			AVERAGE ≥ 1.0 Fc	MINIMUM ≥ 0.1 Fc	MAXIMUM / MINIMUM ≤ 40:1
7.5'	9'	41'	1.56 Fc	0.17 Fc	39.41 Fc
9'	11'	49'	1.20 Fc	0.12 Fc	39.00 Fc
10'	12'	53'	1.01 Fc	0.10 Fc	38.50 Fc

RAY-EM - AC MODE (Wall Mount - Enclosed Corridor)

Room Dimensions: 200' x 6' x Ceiling Height
 Reflectance: 80% (Ceiling) | 50% (Wall) | 20% (Floor)
 Path of Egress: 6' Wide

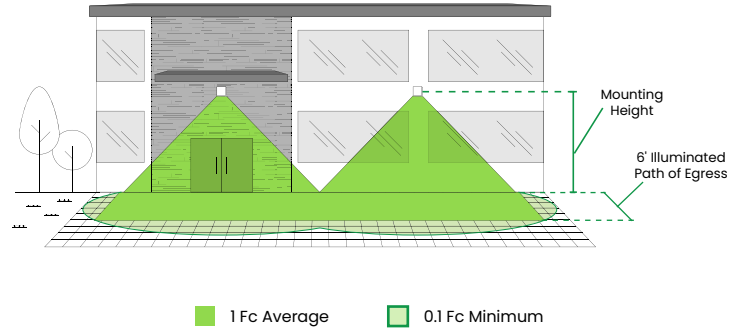
MOUNTING HEIGHT	CEILING HEIGHT	SPACING CENTER TO CENTER	NFPA 101 REQUIREMENTS		
			AVERAGE ≥ 1.0 Fc	MINIMUM ≥ 0.1 Fc	MAXIMUM / MINIMUM ≤ 40:1
7.5'	9'	35'	1.89 Fc	0.27 Fc	39.56 Fc
9'	11'	42'	1.47 Fc	0.19 Fc	38.79 Fc
10'	12'	46'	1.27 Fc	0.16 Fc	37.38 Fc

RAY-EM - EM MODE (Wall Mount - Enclosed Corridor)

Room Dimensions: 200' x 6' x Ceiling Height
 Reflectance: 80% (Ceiling) | 50% (Wall) | 20% (Floor)
 Path of Egress: 6' Wide

MOUNTING HEIGHT	CEILING HEIGHT	SPACING CENTER TO CENTER	NFPA 101 REQUIREMENTS		
			AVERAGE ≥ 1.0 Fc	MINIMUM ≥ 0.1 Fc	MAXIMUM / MINIMUM ≤ 40:1
7.5'	9'	34'	1.00 Fc	0.15 Fc	37.40 Fc
9'	11'	31'	1.03 Fc	0.25 Fc	15.52 Fc
10'	12'	30'	1.01 Fc	0.30 Fc	10.53 Fc

OUTDOOR SPACING DIAGRAM



RAY-AC (Wall Mount - Outdoor)

Room Dimensions: 200' x 30' High Mounting Wall
 Reflectance: 0% (Ceiling) | 50% (Wall) | 20% (Floor)
 Path of Egress: 6' Wide

MOUNTING HEIGHT	CEILING HEIGHT	SPACING CENTER TO CENTER	NFPA 101 REQUIREMENTS		
			AVERAGE ≥ 1.0 Fc	MINIMUM ≥ 0.1 Fc	MAXIMUM / MINIMUM ≤ 40:1
7.5'	N/A	34'	1.48 Fc	0.16 Fc	38.19 Fc
9'	N/A	41'	1.11 Fc	0.11 Fc	38.09 Fc
10'	N/A	41'	1.01 Fc	0.14 Fc	24.00 Fc

RAY-EM - AC MODE (Wall Mount - Outdoor)

Room Dimensions: 200' x 30' High Mounting Wall
 Reflectance: 0% (Ceiling) | 50% (Wall) | 20% (Floor)
 Path of Egress: 6' Wide

MOUNTING HEIGHT	CEILING HEIGHT	SPACING CENTER TO CENTER	NFPA 101 REQUIREMENTS		
			AVERAGE ≥ 1.0 Fc	MINIMUM ≥ 0.1 Fc	MAXIMUM / MINIMUM ≤ 40:1
7.5'	N/A	28'	1.97 Fc	0.27 Fc	37.81 Fc
9'	N/A	36'	1.45 Fc	0.18 Fc	38.94 Fc
10'	N/A	40'	1.23 Fc	0.16 Fc	35.19 Fc

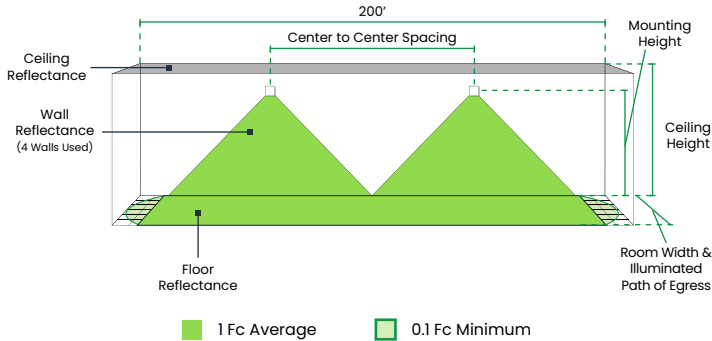
RAY-EM - EM MODE (Wall Mount - Outdoor)

Room Dimensions: 200' x 30' High Mounting Wall
 Reflectance: 0% (Ceiling) | 50% (Wall) | 20% (Floor)
 Path of Egress: 6' Wide

MOUNTING HEIGHT	CEILING HEIGHT	SPACING CENTER TO CENTER	NFPA 101 REQUIREMENTS		
			AVERAGE ≥ 1.0 Fc	MINIMUM ≥ 0.1 Fc	MAXIMUM / MINIMUM ≤ 40:1
7.5'	N/A	28'	1.02 Fc	0.14 Fc	38.36 Fc
9'	N/A	26'	1.03 Fc	0.23 Fc	16.00 Fc
10'	N/A	25'	1.02 Fc	0.31 Fc	9.55 Fc

SPACING GUIDES

ENCLOSED CORRIDOR SPACING DIAGRAM



RAY-RH-3W (Wall Mount - Enclosed Corridor)

Room Dimensions: 200' x 6' x Ceiling Height
 Reflectance: 80% (Ceiling) | 50% (Wall) | 20% (Floor)
 Path of Egress: 6' Wide

MOUNTING HEIGHT	CEILING HEIGHT	SPACING CENTER TO CENTER	NFPA 101 REQUIREMENTS		
			AVERAGE ≥ 1.0 Fc	MINIMUM ≥ 0.1 Fc	MAXIMUM / MINIMUM ≤ 40:1
7.5'	9'	26'	1.12 Fc	0.17 Fc	36.71 Fc
9'	11'	24'	1.01 Fc	0.24 Fc	19.21 Fc
10'	12'	21'	1.01 Fc	0.34 Fc	11.21 Fc

RAY-RH-2W (Wall Mount - Enclosed Corridor)

Room Dimensions: 200' x 6' x Ceiling Height
 Reflectance: 80% (Ceiling) | 50% (Wall) | 20% (Floor)
 Path of Egress: 6' Wide

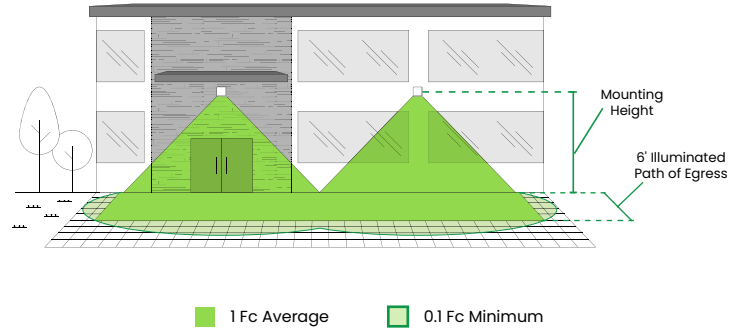
MOUNTING HEIGHT	CEILING HEIGHT	SPACING CENTER TO CENTER	NFPA 101 REQUIREMENTS		
			AVERAGE ≥ 1.0 Fc	MINIMUM ≥ 0.1 Fc	MAXIMUM / MINIMUM ≤ 40:1
7.5'	9'	21'	1.02 Fc	0.21 Fc	22.14 Fc
9'	11'	17'	1.03 Fc	0.37 Fc	9.30 Fc
10'	12'	15'	1.02 Fc	0.48 Fc	5.94 Fc

RAY-RH-1W (Wall Mount - Enclosed Corridor)

Room Dimensions: 200' x 6' x Ceiling Height
 Reflectance: 80% (Ceiling) | 50% (Wall) | 20% (Floor)
 Path of Egress: 6' Wide

MOUNTING HEIGHT	CEILING HEIGHT	SPACING CENTER TO CENTER	NFPA 101 REQUIREMENTS		
			AVERAGE ≥ 1.0 Fc	MINIMUM ≥ 0.1 Fc	MAXIMUM / MINIMUM ≤ 40:1
7.5'	9'	10'	1.08 Fc	0.45 Fc	5.53 Fc
9'	11'	8'	1.04 Fc	0.49 Fc	3.88 Fc
10'	12'	6'	1.08 Fc	0.51 Fc	3.43 Fc

OUTDOOR SPACING DIAGRAM



RAY-RH-3W (Wall Mount - Outdoor)

Room Dimensions: 200' x 30' High Mounting Wall
 Reflectance: 0% (Ceiling) | 30% (Wall) | 20% (Floor)
 Path of Egress: 6' Wide

MOUNTING HEIGHT	CEILING HEIGHT	SPACING CENTER TO CENTER	NFPA 101 REQUIREMENTS		
			AVERAGE ≥ 1.0 Fc	MINIMUM ≥ 0.1 Fc	MAXIMUM / MINIMUM ≤ 40:1
7.5'	N/A	19'	1.13 Fc	0.14 Fc	39.36 Fc
9'	N/A	16'	1.03 Fc	0.25 Fc	15.16 Fc
10'	N/A	13'	1.06 Fc	0.38 Fc	8.03 Fc

RAY-RH-2W (Wall Mount - Outdoor)

Room Dimensions: 200' x 30' High Mounting Wall
 Reflectance: 0% (Ceiling) | 30% (Wall) | 20% (Floor)
 Path of Egress: 6' Wide

MOUNTING HEIGHT	CEILING HEIGHT	SPACING CENTER TO CENTER	NFPA 101 REQUIREMENTS		
			AVERAGE ≥ 1.0 Fc	MINIMUM ≥ 0.1 Fc	MAXIMUM / MINIMUM ≤ 40:1
7.5'	N/A	15'	1.05 Fc	0.20 Fc	20.40 Fc
9'	N/A	12'	1.00 Fc	0.34 Fc	8.26 Fc
10'	N/A	9'	1.08 Fc	0.45 Fc	5.24 Fc

RAY-RH-1W (Wall Mount - Outdoor)

Room Dimensions: 200' x 30' High Mounting Wall
 Reflectance: 0% (Ceiling) | 30% (Wall) | 20% (Floor)
 Path of Egress: 6' Wide

MOUNTING HEIGHT	CEILING HEIGHT	SPACING CENTER TO CENTER	NFPA 101 REQUIREMENTS		
			AVERAGE ≥ 1.0 Fc	MINIMUM ≥ 0.1 Fc	MAXIMUM / MINIMUM ≤ 40:1
7.5'	N/A	8'	1.00 Fc	0.36 Fc	6.14 Fc
9'	N/A	5'	1.08 Fc	0.37 Fc	4.76 Fc
10'	N/A	3'	1.09 Fc	0.36 Fc	5.50 Fc

PHOTOMETRICS

LEGEND

■ 5 Fc
 ■ 2 Fc
 ■ 1 Fc
 ■ 0.5 Fc
 ■ 0.2 Fc
 ■ 0.1 Fc
 ■ 1 Fc Average

Mounting Height = 7 ft

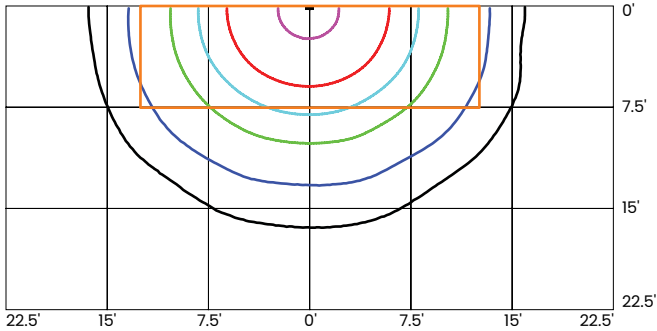
Grid = 7.5 ft × 7.5 ft

RAY-AC (Outdoor)

Reflectance: 0% (Ceiling) | 30% (Wall) | 10% (Floor)

Illuminance (Fc):

Avg: 1.65 Min: 0.2 Max/Min: 30.00

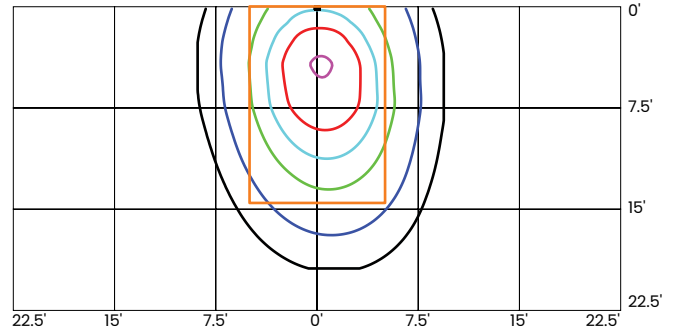


RAY-RH -3W (Outdoor)

Reflectance: 0% (Ceiling) | 30% (Wall) | 10% (Floor)

Illuminance (Fc):

Avg: 1.46 Min: 0.2 Max/Min: 27.50

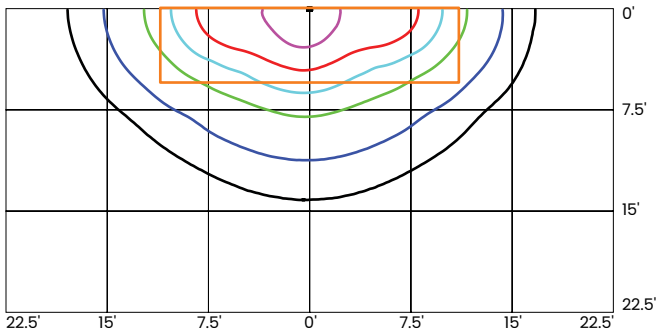


RAY-EM - AC MODE (Outdoor)

Reflectance: 0% (Ceiling) | 30% (Wall) | 10% (Floor)

Illuminance (Fc):

Avg: 2.46 Min: 0.3 Max/Min: 33.67

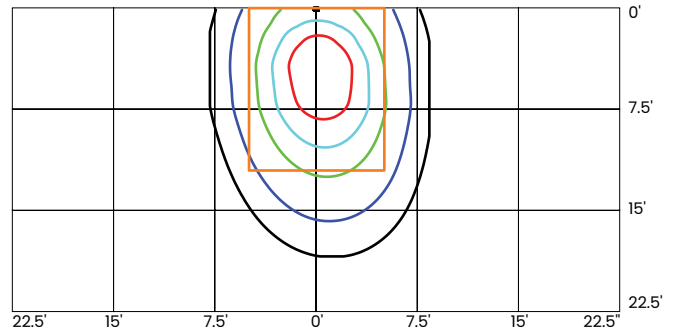


RAY-RH -2W (Outdoor)

Reflectance: 0% (Ceiling) | 30% (Wall) | 10% (Floor)

Illuminance (Fc):

Avg: 1.23 Min: 0.2 Max/Min: 20.50

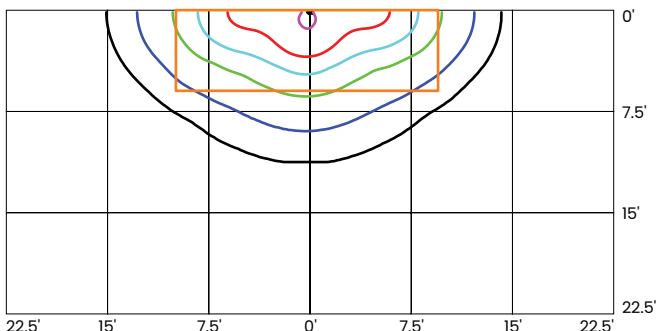


RAY-EM - EM MODE (Outdoor)

Reflectance: 0% (Ceiling) | 30% (Wall) | 10% (Floor)

Illuminance (Fc):

Avg: 1.30 Min: 0.2 Max/Min: 26.50



RAY-RH -1W (Outdoor)

Reflectance: 0% (Ceiling) | 30% (Wall) | 10% (Floor)

Illuminance (Fc):

Avg: 1.01 Min: 0.3 Max/Min: 27.50

