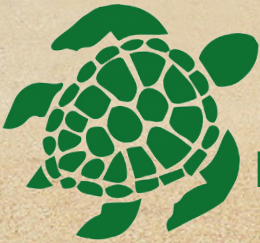


Shoreview™ Series



**LED
LIGHTING**



FWC Approved Sea Turtle Safe Lighting

CATALOG #	TYPE
JOB NAME	VOLTAGE

Shoreview™ Series

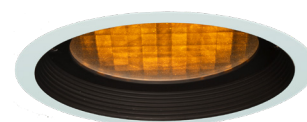


Recessed LED Downlight

*Ideal for Outdoor Lighting: Soffits, Canopies
Sealed & Gasketed: IP65 Rated Trim*



CATALOG NUMBER
TRR-08170



FWC Approved
Sea Turtle Safe
590nm LED

Specifications

LED (FWC Approved) and Optics

- Color: Environmental yellow/amber (590nm).
- Optional color: Environmental red/orange (617nm) available. See Option -ERO below.
- True color, not phosphor converted.
- No light emitted below 560nm.
- 19 watts. 60,000 hour life (L70).
- 36° narrow optic controls light distribution.

LED Power Supply / Driver

- Constant current DC. Electronically stabilized.
- Minimum operating temperature -22°F (-30°C).
- 120-277 volt/50-60 Hz. Load insensitive.
- 0-10V CCR dimming standard. (100-1%)

Sealed & Gasketed Trim Assembly

- Rustproof 100% aluminum tapered one piece black flare, self-flanged in white.
- Regressed tempered microprismatic glass lens with 1/2" square black louver above.
- 45° cutoff provides controlled glare-free illumination.

Sealed and Gasketed Trim: IP65 Rated

- Silicone seal between trim and lens seals lens to trim. Closed cell gasketing on trim flange seals flange to ceiling. Neoprene O-rings on stainless steel fasteners seal fasteners to trim.
- Meets ASTM E283 restricted airflow of 2 CFM maximum.

Housing: Shallow Depth

- Acrylic enameled aluminum. Corrosion resistant. Suitable for coastal areas.
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test. Ideal for high moisture and salt air environments.
- Shallow 5-5/8" depth fits restricted plenums.
- Cool operation: Extends life of all components ensuring long luminaire life.
- Fully sustainable: Entire luminaire, including LED light engine, is modular; easily visible and serviced through aperture.
- Built-in plaster flange.



FWC Certification
#2016-033

Installation

- Recesses indoors or outdoors, covered locations.
- 27" galvanized hanger bars with adjustable mounting brackets (2) supplied.

UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings.

FIVE YEAR Limited Warranty

- Complete standard fixture.

MUST SPECIFY	OPTIONAL	Ordering Example: TRR-08170-ERO
Product Number	Options	
TRR-08170	See "Options" below	

Options

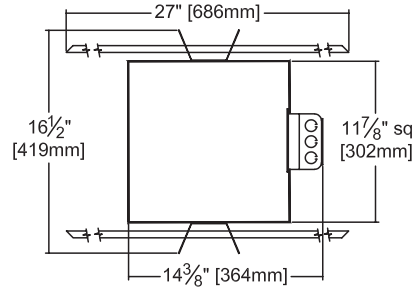
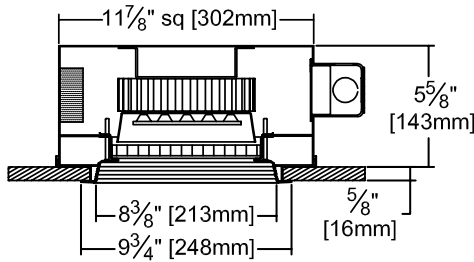
LED Color

-ERO Environmental red/orange (617nm)

Other

- 94 Custom color flange. Specify.
- 99 Special modification. Consult factory.

Dimensions



Detailed Photometry - Installed Fixture

Photometric testing done in accordance with IESNA LM-79

Photometry from I.T.L., Boulder, CO

TRR-08170 STANDARD

Lumens: 448
Beam: ~30°
SC: 0.5
LPW: 22
ITL Test: 89992

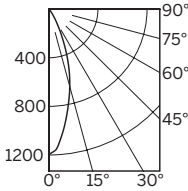


Total System Watts 20.4

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1196	1196	1196	1196	1196
5	1077	1077	1077	1077	1077
15	659	659	659	659	659
25	259	259	259	259	259
35	57	57	57	57	57
45	10	10	10	10	10
55	2	2	2	2	2
65	1	1	1	1	1
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

Cone of Light ▲

Dist.	FC	Dia.
6	33.2	3.2
8	18.7	4.3
10	12.0	5.3
12	8.3	6.4
14	6.1	7.5
16	4.7	8.5



TRR-08170 - WITHOUT black louver above lens

Lumens: 823
Beam: ~37°
SC: 0.7
LPW: 40
ITL Test: 89993

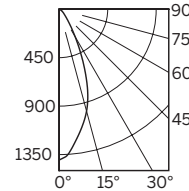


Total System Watts 20.4

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1400	1400	1400	1400	1400
5	1302	1302	1302	1302	1302
15	980	980	980	980	980
25	502	502	502	502	502
35	167	167	167	167	167
45	65	65	65	65	65
55	31	31	31	31	31
65	11	11	11	11	11
75	2	2	2	2	2
85	0	0	0	0	0
90	0	0	0	0	0

Cone of Light ▲

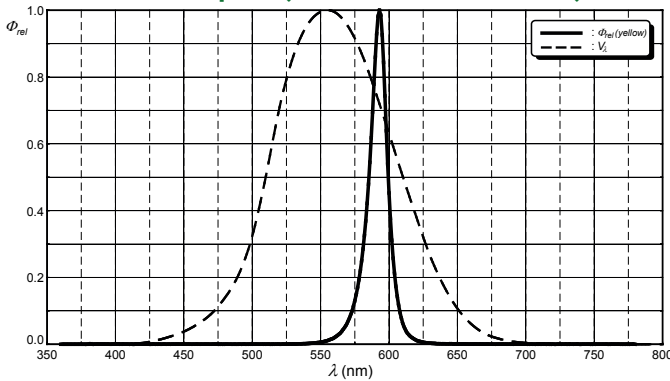
Dist.	FC	Dia.
6	255.8	2.2
8	143.9	2.9
10	92.1	3.6
12	63.9	4.3
14	47.0	5.0
16	36.0	5.8



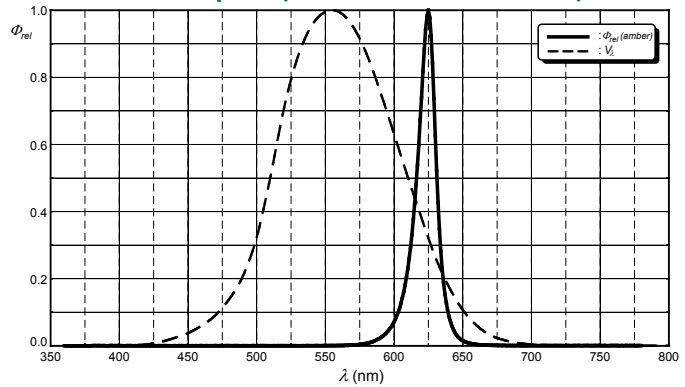
LED Spectral Emissions

— LED Output
- - - Human Eye Perception

Environmental Yellow/Amber
590nm peak (583nm min, 595nm max)



Option -ERO (Environmental Red/Orange)
617nm peak (609nm min, 624nm max)



SUBMITTAL DATA

APPROVAL STAMP

JOB NAME

TYPE

VOLTAGE

CATALOG NUMBER



LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLER TO N.E.C. IN NORMAL USE. Manufacturer at the option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the office of manufacturer within three years of original shipment. Liability of manufacturer is limited to the foregoing, and manufacturer shall not be liable for any other damages, direct or indirect, sustained or suffered by purchaser or any person. This warranty is supplied to the buyer in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend the specific warranty. Abnormal use, abuse of the fixture, improper installation, or repair, or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.

CATALOG #	TYPE
JOB NAME	VOLTAGE

Shoreview™ Series



Recessed LED Wall Light

*Ideal for Stairs, Walls and Walk Ways
Sealed & Gasketed • UL Wet Locations
Tamper Resistant*

CATALOG NUMBER
TNT-03175



FWC Approved
Sea Turtle Safe
590nm LED

Specifications

LED: FWC Approved

- Color: Environmental yellow/amber (590nm).
- Optional color: Environmental red/orange (617nm). See Option -ERO below.
- True color, not phosphor converted.
- No light emitted below 560nm.
- 4 watts. 60,000 hour life (L70).

LED Power Supply / Driver

- Constant current DC. Electronically stabilized.
- Minimum operating temperature -22°F (-30°C).
- 120-277 volt / 50-60 Hz. Load insensitive.

Faceplate Assembly - Sealed & Gasketed

- Meets ASTM E283 restricted airflow of 2 CFM maximum.
- Seamless die-formed gasketed louvered faceplate: easily removed for servicing.
- Clear poly lens behind louver, retained with captive stainless steel fasteners.
- Neoprene O-rings seal fasteners to faceplate.

- 30° louvers direct light downward.
- White finish standard. Optional colors.
- Tamper resistant screws standard. Tamperproof tool included.

Housing: Super Shallow 2½" Depth

- Acrylic enameled aluminum. Corrosion resistant. Suitable for coastal areas.
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test. Ideal for high moisture and salt air environments.
- Cool: Extends life of all components ensuring long luminaire life.
- Fully sustainable: Entire luminaire, including LED light engine, is modular; easily serviced.

Installation

- Recesses in walls, indoors or outdoors.
- Adjustable mounting slide brackets allow installation between adjoining studs up to 22" apart.

UL, C-UL (Canada) Listings

- Wet locations.

FIVE YEAR Limited Warranty

- Complete standard fixture.



FWC Certification
#2016-034

MUST SPECIFY	OPTIONAL	Ordering Example:
Product Number	Options	
TNT-03175	See "Options" below	TNT-03175-ERO-38

Options

LED Color

- ERO Environmental red/orange (617nm)

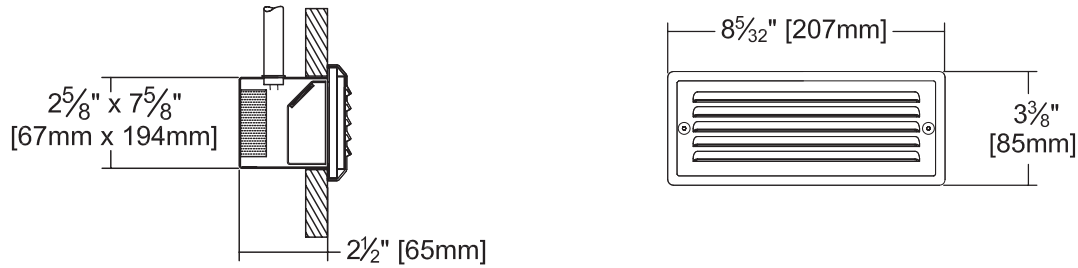
Faceplate Finishes

- 35 Natural aluminum (silver) acrylic enamel.
- 37 Dark bronze acrylic enamel.
- 38 Black acrylic enamel.
- 94 Custom color/finish. Specify. Consult factory.

Other

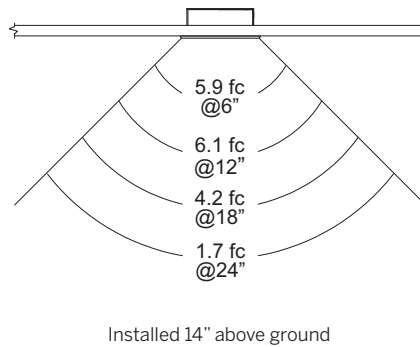
- 99 Special modification. Consult factory.

Dimensions



Performance - Installed Fixture

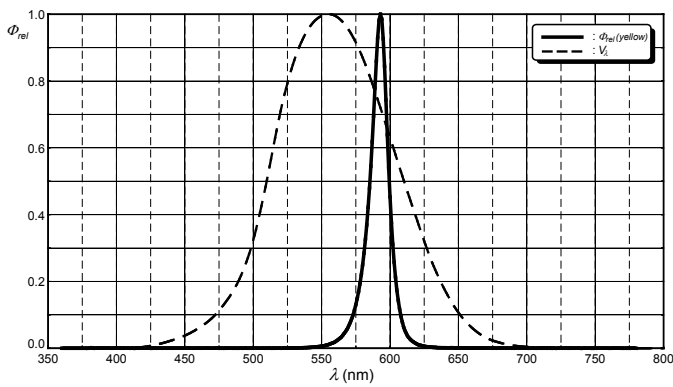
Estimated Footcandle Performance On the Floor - Top View



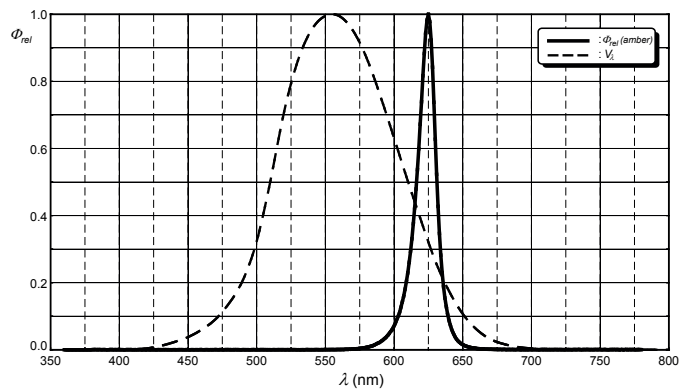
LED Spectral Emissions

— LED Output
- - - Human Eye Perception

Environmental Yellow/Amber
590nm peak (583nm min, 595nm max)



Option - ERO (Environmental Red/Orange)
617nm peak (609nm min, 624nm max)



SUBMITTAL DATA

APPROVAL STAMP

JOB NAME _____
TYPE _____ VOLTAGE _____
CATALOG NUMBER _____



LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLED TO N.E.C. IN NORMAL USE. Manufacturer at the option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the offices of manufacturer within three years of original shipment. Liability of manufacturer is limited to the foregoing, and manufacturer shall not be liable for any other damages, direct or indirect, sustained or suffered by purchaser or any person. This warranty is supplied to the buyer in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation, or repair, or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.

CATALOG #	TYPE
JOB NAME	VOLTAGE

Shoreview™ Series



Wall Pack LED Downlight

*Ideal for Increased Security - Wet Locations
Hospitality and Commercial Buildings*

CATALOG NUMBER
TST-07180



Shown with Option -BV Shield

Specifications

LED (FWC Approved) and Optics

- Color: Environmental yellow/amber (590nm).
- Optional color: Environmental red/orange (617nm) available. See Option -ERO below.
- True color, not phosphor converted.
- No light emitted below 560nm.
- 20 watts. 60,000 hour life (L70)
- 506 delivered lumens.
- 36° narrow optic controls light distribution.
- Optional Beach Visor shield prevents stray wide angle illumination. See Option -BV.

LED Power Supply/Driver

- Constant current DC. Electronically stabilized.
- Minimum operating temperature -22°F (-30°C).
- 120-277 volt / 50-60 Hz. Load insensitive.
- 0-10V CCR dimming standard. (100-1%)

Trim Assembly - Sealed & Gasketed

- Flush clear tempered glass lens with ½" square black eggcrate above.
- 45° cut-off provides controlled, glare-free illumination.
- Silicone seal between lens and housing.

Housing Construction

- Bronze powder coat over chromate conversion cast aluminum.
- Sealed and gasketed with silicone.
- Cool operation: Extends life of all components, ensuring long luminaire life.
- Fully sustainable: Entire luminaire, including LED light engine, is modular; easily serviced.

Installation

- Mounts directly to wall or wall mounted J-box.
- Three (3) conduit knockouts.

UL, C-UL (Canada) Listings

- Wet locations.

FIVE YEAR Limited Warranty

- Complete standard fixture.

FWC Approved
Sea Turtle Safe
590nm LED



FWC Certification
#2016-035

MUST SPECIFY	OPTIONAL	Ordering Example: TST-07180-ERO-PC
Product Number	Options	
TST-07180	See "Options" below	

Options

LED Color

- ERO Environmental red/orange (617nm)

Controls

- PC Photocell on side of housing.

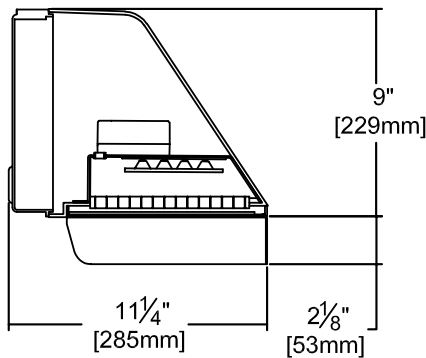
Other

- BV Beach visor cutoff shield.
- 99 Special modification. Consult factory.

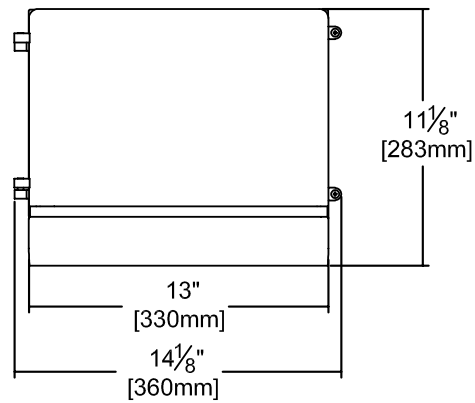
BUG Zone Ratings



Dimensions



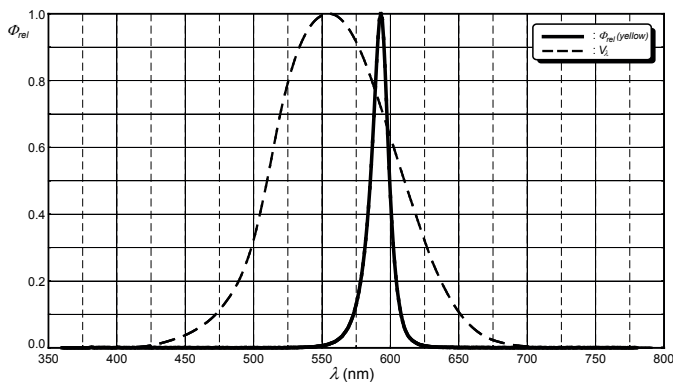
Shown with Option -BV Shield



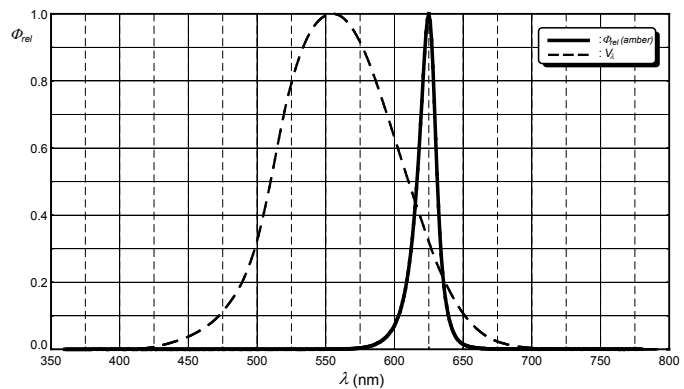
LED Spectral Emissions

———— LED Output
- - - - Human Eye Perception

Environmental Yellow / Amber
590nm peak (583nm min, 595nm max)



Option -ERO (Environmental Red / Orange)
617nm peak (609nm min, 624nm max)



SUBMITTAL DATA

JOB NAME _____
TYPE _____ VOLTAGE _____
CATALOG NUMBER _____

APPROVAL STAMP

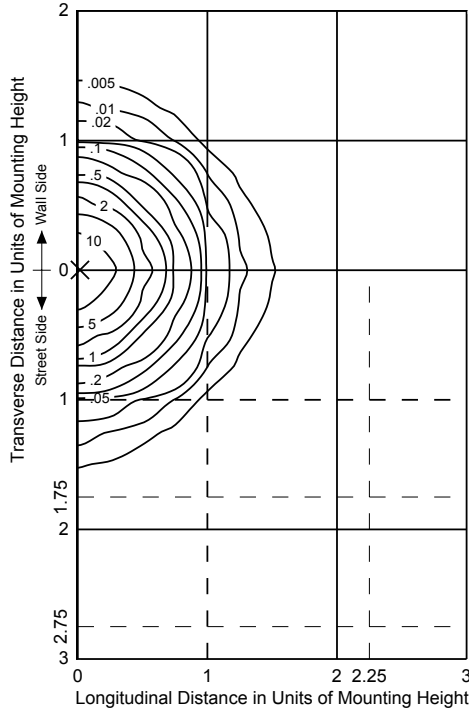


LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALL TO N.E.C. IN NORMAL USE. Manufacturer at the option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the offices of manufacturer within three years of original shipment. Liability of manufacturer is limited to the foregoing, and manufacturer shall not be liable for any other damages, direct or indirect, sustained or suffered by purchaser or any person. This warranty is supplied to the buyer in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation, or repair, or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.

Detailed Photometry - Installed Standard Fixture

Photometry from I.T.L., Boulder, CO
ITL Test: 89732

ISO FOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

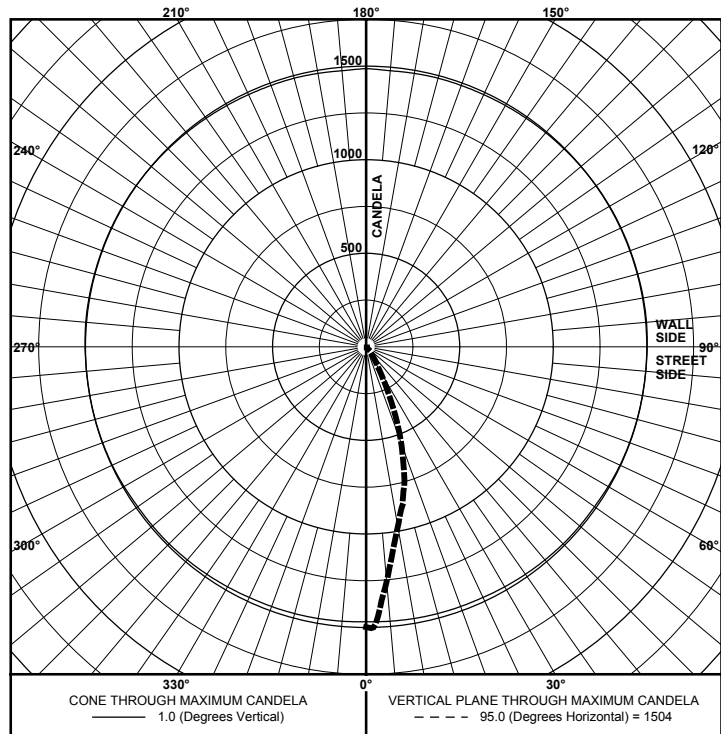


IES Classification: Type VS
Cutoff Classification (depreciated): Full Cutoff

--- 1/2 Maximum Candela trace
X Maximum Candela point

MAXIMUM PLANE and MAXIMUM CONE PLOTS OF CANDELA

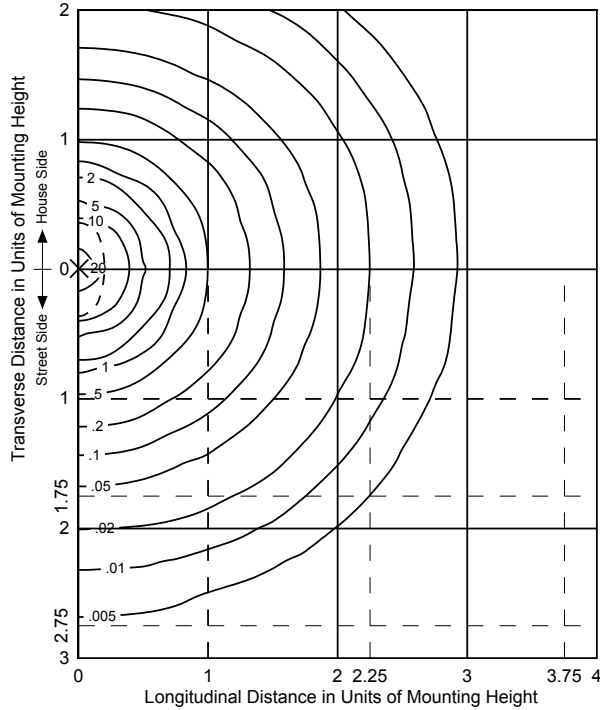
Delivered Lumens: 506
% Cutoff at 45°: 99%
100% Cutoff: 65°



Detailed Photometry - Installed Fixture
WITHOUT black louver above lens

Photometry from I.T.L., Boulder, CO
ITL Test: 89731

ISO FOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

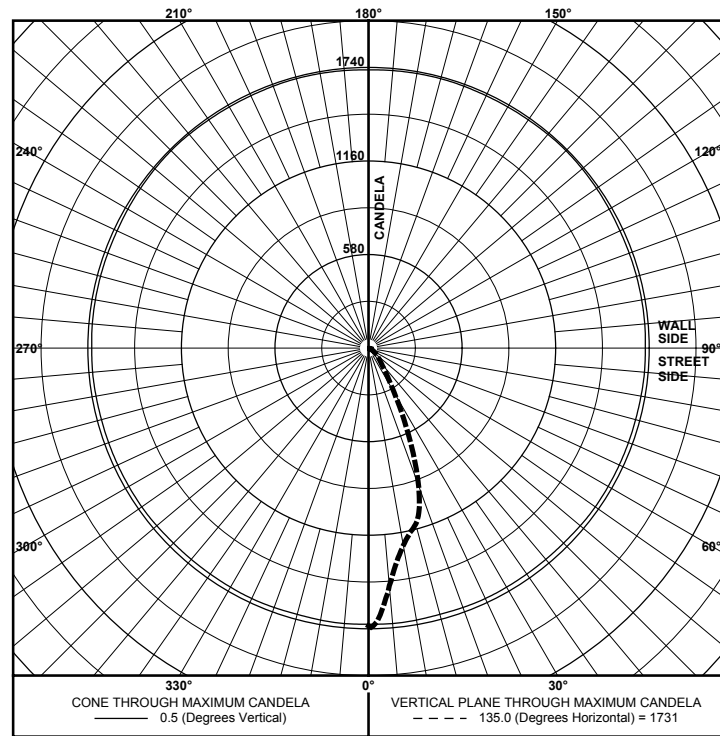


IES Classification: Type VS
Cutoff Classification (depreciated): Full Cutoff

--- 1/2 Maximum Candela trace
X Maximum Candela point

**MAXIMUM PLANE and
MAXIMUM CONE PLOTS OF
CANDELA**

Delivered Lumens: 948
% Cutoff at 45°: 95%
100% Cutoff: 85°



3401 E. JEFFERSON AVE. • DETROIT, MI 48207-4232
313.259.6400 • www.kirlinlighting.com

DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE. THE KIRLIN COMPANY EXPECTS PHOTOMETRIC PERFORMANCE TO IMPROVE SIGNIFICANTLY AND FREQUENTLY AS LED SOURCE TECHNOLOGY IMPROVES.

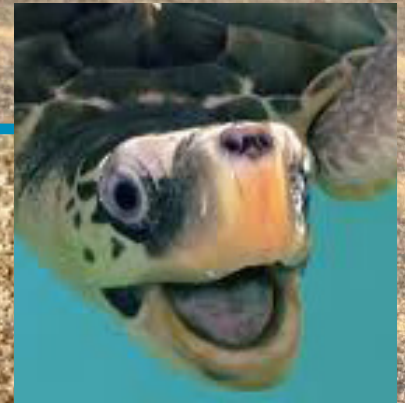
LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLATION TO N.E.C. IN NORMAL USE. Manufacturer at the option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the offices of manufacturer within three years of original shipment. Liability of manufacturer is limited to the foregoing, and manufacturer shall not be liable for any other damages, direct or indirect, sustained or suffered by purchaser of any person. This warranty is supplied to the buyer in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation, or repair, or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.

Shoreview™ Series



FWC Approved
Sea Turtle Safe
LED Lighting

- Kirlin Shoreview™ Series LED Lighting meets or exceeds the Florida Fish and Wildlife Conservation Commission criteria for Wildlife Lighting
- Downward directed high intensity luminaires that produce a spectral output above 560nm
- Recommended for use in areas where artificial lighting is needed adjacent to ecologically sensitive areas, sea turtle nesting beaches, migratory corridors, and Dark Sky Friendly communities



THE KIRLIN COMPANY
3401 E. JEFFERSON AVE. • DETROIT, MI 48207
313.259.6400 • www.kirlinlighting.com • info@kirlinlighting.com