

EXPEDITED AVAILABILITY

QSR - PLED

SPECIFICATIONS

OPTICAL HOUSING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance $\leq \pm .003"$) to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

ELECTRICAL HOUSING w/ INTEGRATED ARM

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

PLED™ OPTICS

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments. LED's are 3000K or 4000K CCT.

LED DRIVER(S)

Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

FINISH

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

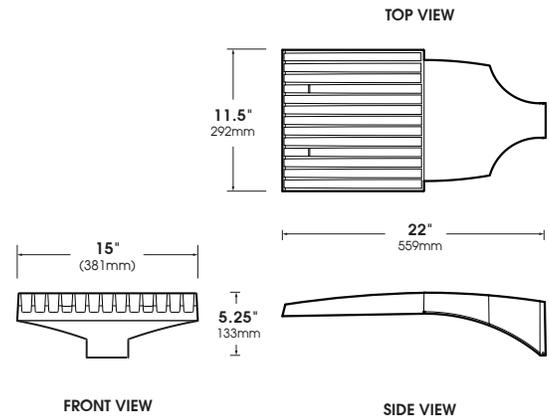
PROJECT NAME: _____

PROJECT TYPE: _____



QSR-LED

PATENT PENDING

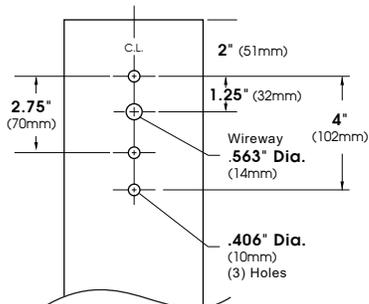


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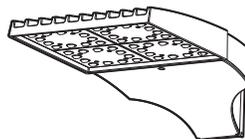


S P E C I F I C A T I O N S

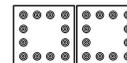
POLE DRILLING TEMPLATE



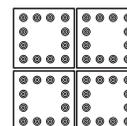
PLED™ MODULES



QSR-LED
E.P.A.= 0.45
Available in:
48 & 24LED Module



24 LED Array



48 LED Array

S P E C / O R D E R I N G I N F O R M A T I O N

CATALOG #	LED COUNT	VOLTAGE	WATTS	LUMENS	REPLACES HID	OPTIONS
<input type="checkbox"/> QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	24	* = Specify Voltage <input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277	68	7548	150W	<input type="checkbox"/> HOUSE SIDE SHIELD . . . HS-PLED SURGE PROTECTOR . . . SP (Now included with luminaire for field installation)
<input type="checkbox"/> QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	24		68	7480	150W	
<input type="checkbox"/> QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ	48	79	10349	250W		
<input type="checkbox"/> QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ	48	79	10270	250W		
<input type="checkbox"/> QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ	48	160	18240	400W		
<input type="checkbox"/> QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ	48	160	18040	400W		
<input type="checkbox"/> QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	24	* = Specify Voltage <input type="checkbox"/> 347 <input type="checkbox"/> 480	68	7548	150W	
<input type="checkbox"/> QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	24		68	7480	150W	
<input type="checkbox"/> QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ	48	79	10349	250W		
<input type="checkbox"/> QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ	48	79	10270	250W		
<input type="checkbox"/> QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ	48	160	18240	400W		
<input type="checkbox"/> QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ	48	160	18040	400W		

NOTE:
(X) = indicate voltage (CX) = WW (3000K) or NW (4000K)



EXPEDITED AVAILABILITY

QSR - PLED

w/ POLE RATED* FOR 100MPH (*AASHTO 2000)

SPECIFICATIONS

FIXTURE

HOUSING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance $\leq \pm .003$ ") to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

ARM MOUNTING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

PLED™ OPTICS

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. A micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce Type III and Type IV site/area distributions. Panels are field replaceable and field rotatable in 90° increments. LED's are 3000K or 4000K CCT.

LED DRIVERS

Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

POLE

SHAFT

4" square, fabricated from high grade structural steel tube. Shaft conforms to ASTM-A-501 - 68 specifications. Meets or exceeds minimum yield strength of 46,000 p.s.i. Wall thickness 11 Ga. (.120 wall). Reinforced hand hole is furnished with cover, shaft is furnished with ground lug located inside pole on wall opposite hand hole.

BASE PLATE

Fabricated from structural quality hot rolled steel. Meets or exceeds minimum yield strength of 36,000 p.s.i. base telescopes and is circumferentially welded to pole shaft. Slotted bolt holes provide 1" flexibility on either side of bolt circle centerline.

ANCHORAGE

(4) anchor bolts fabricated from hot rolled steel bar, minimum yield strength of 50,000 p.s.i. bolts have "L" bend on one end and are threaded on the other end. Bolts are fully galvanized and are furnished with two nuts and two washers.

BASE COVER

Fabricated from heavy gauge quality carbon steel. Two piece cover conceals base.

FINISH (Applies to Luminaire and Pole)

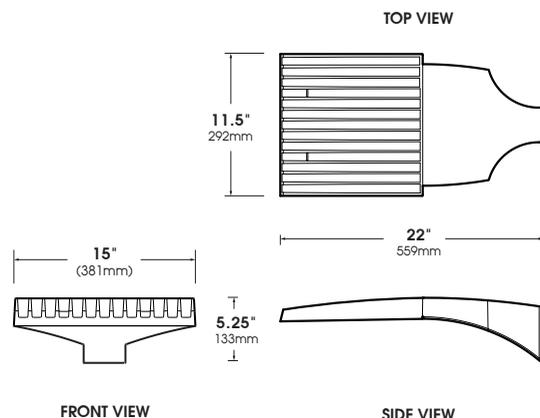
Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step sand blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Smooth finish is standard.

PROJECT NAME: _____

FIXTURE TYPE: _____



PATENT PENDING

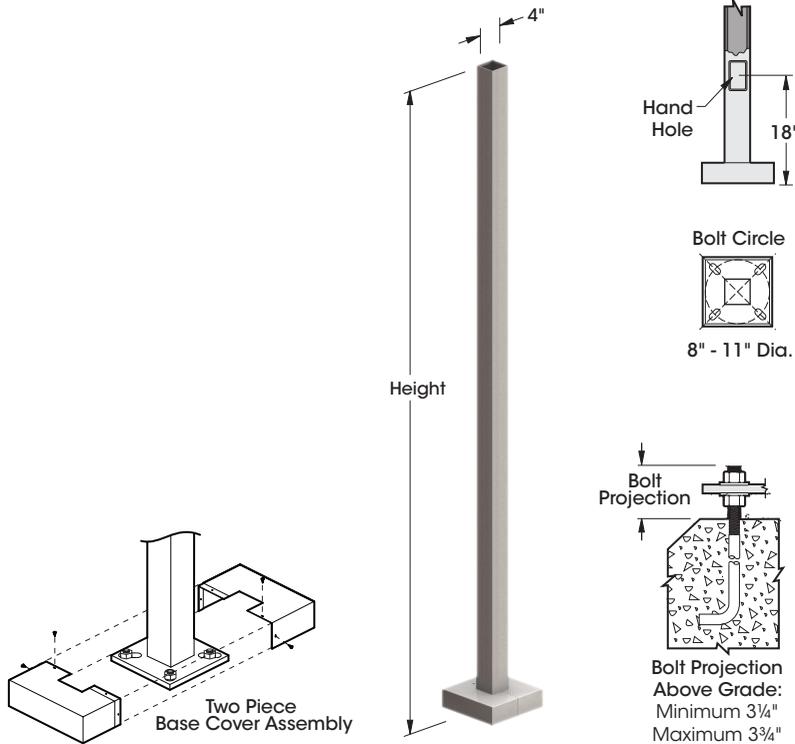


QSR - PLED

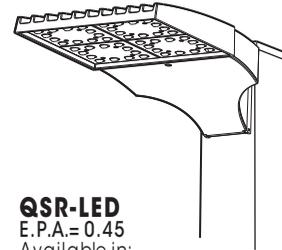
100 MPH PROMOTION

SPECIFICATIONS

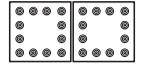
POLE



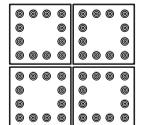
PLED™ MODULES



QSR-LED
E.P.A. = 0.45
Available in:
48 & 24LED Module



24 LED Array



48 LED Array

SPEC / ORDERING INFORMATION

POLE	CATALOG #	VOLTAGE	WATTS	LUMENS	REPLACES HID	LED COUNT	OPTIONS
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	<input type="checkbox"/> 120	68	7548	150W	24	<input type="checkbox"/> HOUSE SIDE SHIELD HS-PLED <input type="checkbox"/> SURGE PROTECTOR SP (Now included with luminaire for field installation)
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	<input type="checkbox"/> 208	68	7480	150W	24	
20'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-204-11/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ	<input type="checkbox"/> 240	79	10349	250W	48	
20'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-204-11/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ	<input type="checkbox"/> 277	79	10270	250W	48	
25'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-254-11/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ		160	18240	400W	48	
25'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-254-11/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ		160	18040	400W	48	
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	<input type="checkbox"/> 347	68	7548	150W	24	
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	<input type="checkbox"/> 480	68	7480	150W	24	
20'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-204-11/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ		79	10349	250W	48	
20'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-204-11/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ		79	10270	250W	48	
25'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-254-11/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ		160	18240	400W	48	
25'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-254-11/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ		160	18040	400W	48	

NOTE:
(X) = indicate voltage (CX) = WW (3000K) or NW (4000K)



EXPEDITED AVAILABILITY

QSR-LED TWIN ASSEMBLY

w/ POLE RATED* FOR 100MPH (*AASHTO 2000)

SPECIFICATIONS

FIXTURE HOUSING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance $\pm .003"$) to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

ARM MOUNTING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

PLED™ OPTICS

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. A micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce Type III and Type IV site/area distributions. Panels are field replaceable and field rotatable in 90° increments. LED's are 3000K or 4000K CCT.

LED DRIVERS

Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50, 60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

POLE SHAFT

4" square, fabricated from high grade structural steel tube. Shaft conforms to ASTM-A-501 - 68 specifications. Meets or exceeds minimum yield strength of 46,000 p.s.i. Wall thickness 11 Ga. (.120 wall). Reinforced hand hole is furnished with cover, shaft is furnished with ground lug located inside pole on wall opposite hand hole.

BASE PLATE

Fabricated from structural quality hot rolled steel. Meets or exceeds minimum yield strength of 36,000 p.s.i. base telescopes and is circumferentially welded to pole shaft. Slotted bolt holes provide 1" flexibility on either side of bolt circle centerline.

ANCHORAGE

(4) anchor bolts fabricated from hot rolled steel bar, minimum yield strength of 50,000 p.s.i. bolts have "L" bend on one end and are threaded on the other end. Bolts are fully galvanized and are furnished with two nuts and two washers.

BASE COVER

Fabricated from heavy gauge quality carbon steel. Two piece cover conceals base.

FINISH (Applies to Luminaire and Pole)

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step sand blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Smooth finish is standard.

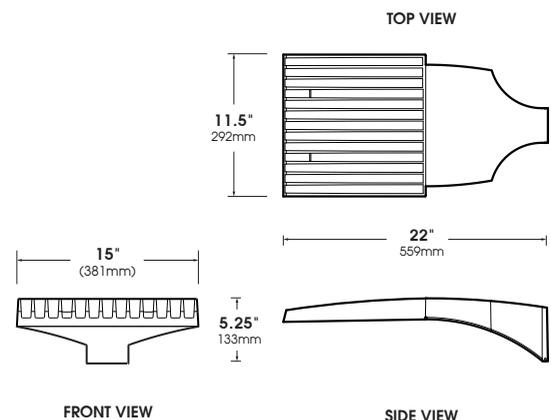
PROJECT NAME: _____

FIXTURE TYPE: _____



QSR-LED

PATENT PENDING

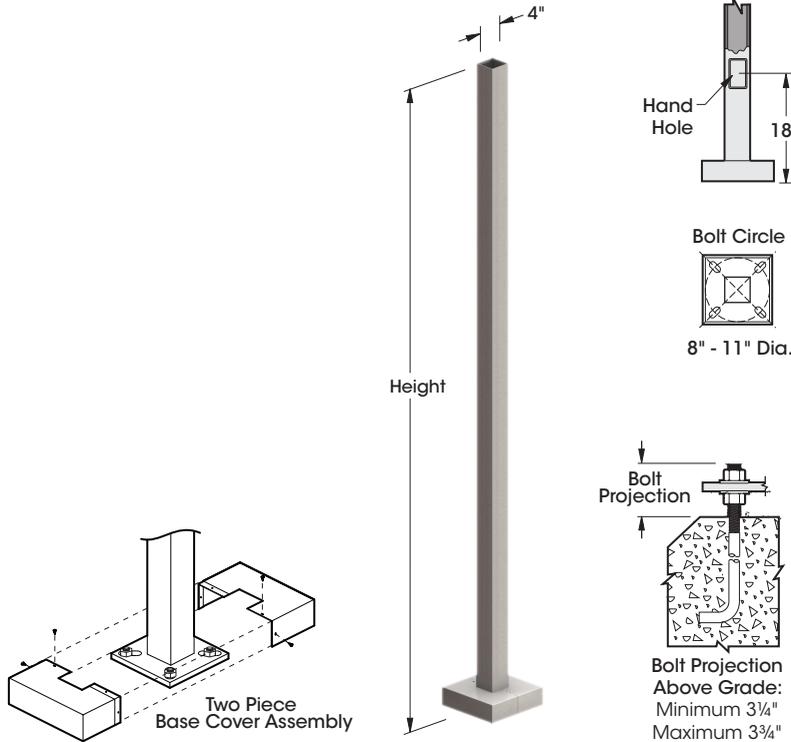


QSR - PLED TWIN ASSEMBLY

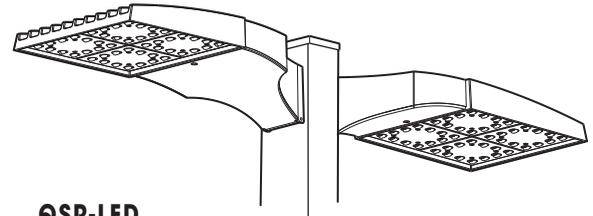
100 MPH PROMOTION

S P E C I F I C A T I O N S

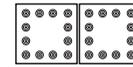
POLE



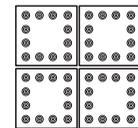
PLED™ MODULES



QSR-LED
E.P.A. = 0.45
Available in:
48 & 24 LED Module



24 LED Array



48 LED Array

S P E C / O R D E R I N G I N F O R M A T I O N

POLE	CATALOG #	VOLTAGE	WATTS	LUMENS	REPLACES HID	LED COUNT	OPTIONS
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11-2180/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	* = Specify Voltage		Lumens Per Fixture			<input type="checkbox"/> HOUSE SIDE SHIELD HS-PLED SURGE PROTECTOR SP (Now included with luminaire for field installation)
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11-2180/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	<input type="checkbox"/> 120	68	7548	150W	24	
		<input type="checkbox"/> 208	68	7480	150W	24	
		<input type="checkbox"/> 240	79	10349	250W	48	
		<input type="checkbox"/> 277	79	10270	250W	48	
20'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-204-11-2180/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ						
20'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-204-11-2180/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ						
25'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-254-11-2180/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ						
25'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-254-11-2180/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ						
		* = Specify Voltage					
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11-2180/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	<input type="checkbox"/> 347	68	7548	150W	24	
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11-2180/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	<input type="checkbox"/> 480	68	7480	150W	24	
20'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-204-11-2180/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ		79	10349	250W	48	
20'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-204-11-2180/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ		79	10270	250W	48	
25'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-254-11-2180/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ		160	18240	400W	48	
25'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-254-11-2180/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ		160	18040	400W	48	

NOTE:
(X) = indicate voltage (CX) = WW (3000K) or NW (4000K)



EXPEDITED AVAILABILITY

QSR - PLED

w/ POLE RATED* FOR 140MPH (*AASHTO 2000)

SPECIFICATIONS

FIXTURE

HOUSING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance $\pm .003$ ") to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

ARM MOUNTING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

PLED™ OPTICS

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LED DRIVERS

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POLE

SHAFT

4" square, fabricated from high grade structural steel tube. Shaft conforms to ASTM-A-501 - 68 specifications. Meets or exceeds minimum yield strength of 46,000 p.s.i. Wall thickness for 15'0" is 11Ga. (.120"). Wall thickness for 20'0" and 25'0" is 7Ga. (.180"). Reinforced hand hole is furnished with cover, shaft is furnished with ground lug located inside pole on wall opposite hand hole.

BASE PLATE

Fabricated from structural quality hot rolled steel. Meets or exceeds minimum yield strength of 36,000 p.s.i. base telescopes and is circumferentially welded to pole shaft. Slotted bolt holes provide 1" flexibility on either side of bolt circle centerline.

ANCHORAGE

(4) anchor bolts fabricated from hot rolled steel bar, minimum yield strength of 50,000 p.s.i. bolts have "L" bend on one end and are threaded on the other end. Bolts are fully galvanized and are furnished with two nuts and two washers.

BASE COVER

Fabricated from heavy gauge quality carbon steel. Two piece cover conceals base.

FINISH (Applies to Luminaire and Pole)

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step sand blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Smooth finish is standard.

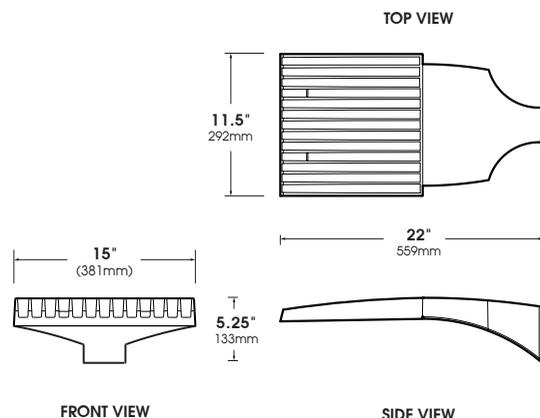
PROJECT NAME: _____

FIXTURE TYPE: _____



QSR-LED

PATENT PENDING

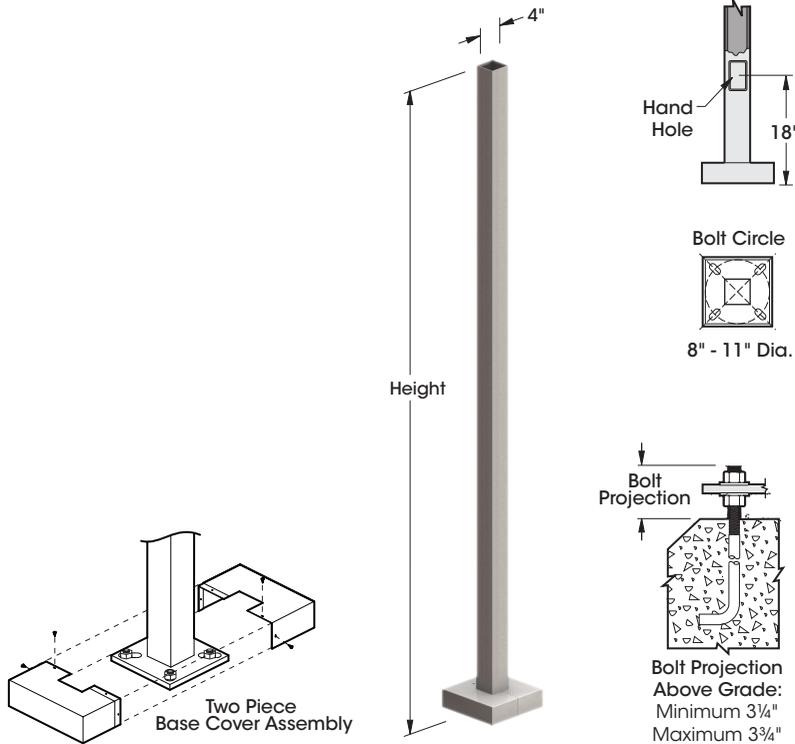


QSR - PLED

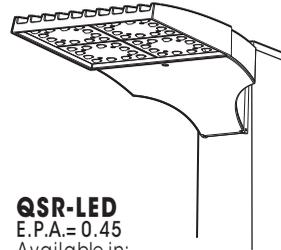
140 MPH PROMOTION

SPECIFICATIONS

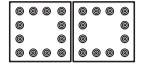
POLE



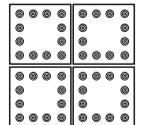
PLED™ MODULES



QSR-LED
E.P.A.= 0.45
Available in:
48 & 24LED Module



24 LED Array



48 LED Array

SPEC / ORDERING INFORMATION

POLE	CATALOG #	VOLTAGE	WATTS	LUMENS	REPLACES HID	LED COUNT	OPTIONS
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	<input type="checkbox"/> 120	68	7548	150W	24	<input type="checkbox"/> HOUSE SIDE SHIELD HS-PLED
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	<input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277	68	7480	150W	24	
20'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-204-7/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ		79	10349	250W	48	<input type="checkbox"/> SURGE PROTECTOR SP (Now included with luminaire for field installation)
20'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-204-7/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ		79	10270	250W	48	
25'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-254-7/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ		160	18240	400W	48	
25'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-254-7/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ		160	18040	400W	48	
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	<input type="checkbox"/> 347	68	7548	150W	24	
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	<input type="checkbox"/> 480	68	7480	150W	24	
20'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-204-7/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ		79	10349	250W	48	
20'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-204-7/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ		79	10270	250W	48	
25'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-254-7/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ		160	18240	400W	48	
25'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-254-7/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ		160	18040	400W	48	

NOTE:
(X) = indicate voltage (CX) = WW (3000K) or NW (4000K)



EXPEDITED AVAILABILITY

QSR-LED TWIN ASSEMBLY

w/ POLE RATED * FOR 140MPH (*AASHTO 2000)

S P E C I F I C A T I O N S

FIXTURE

HOUSING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance $\leq \pm .003"$) to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

ARM MOUNTING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

PLED™ OPTICS

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. A micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce Type III and Type IV site/area distributions. Panels are field replaceable and field rotatable in 90° increments. LED's are 3000K or 4000K CCT.

LED DRIVERS

Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50, 60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

POLE

SHAFT

4" square, fabricated from high grade structural steel tube. Shaft conforms to ASTM-A-501 - 68 specifications. Meets or exceeds minimum yield strength of 46,000 p.s.i. Wall thickness for 15'0" is 11Ga. (.120"). Wall thickness for 20'0" and 25'0" is 7Ga. (.180"). Reinforced hand hole is furnished with cover, shaft is furnished with ground lug located inside pole on wall opposite hand hole.

BASE PLATE

Fabricated from structural quality hot rolled steel. Meets or exceeds minimum yield strength of 36,000 p.s.i. base telescopes and is circumferentially welded to pole shaft. Slotted bolt holes provide 1" flexibility on either side of bolt circle centerline.

ANCHORAGE

(4) anchor bolts fabricated from hot rolled steel bar, minimum yield strength of 50,000 p.s.i. bolts have "L" bend on one end and are threaded on the other end. Bolts are fully galvanized and are furnished with two nuts and two washers.

BASE COVER

Fabricated from heavy gauge quality carbon steel. Two piece cover conceals base.

FINISH (Applies to Luminaire and Pole)

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step sand blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Smooth finish is standard.

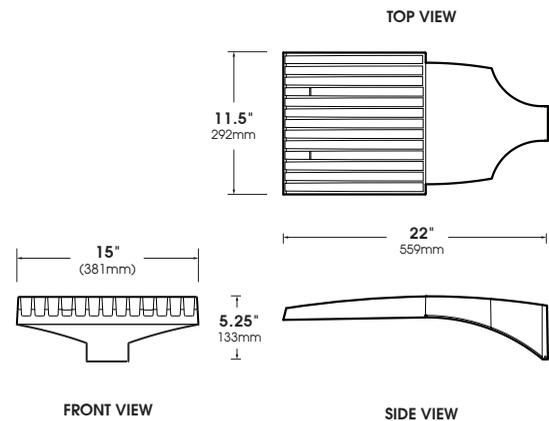
PROJECT NAME: _____

FIXTURE TYPE: _____



QSR-LED

PATENT PENDING

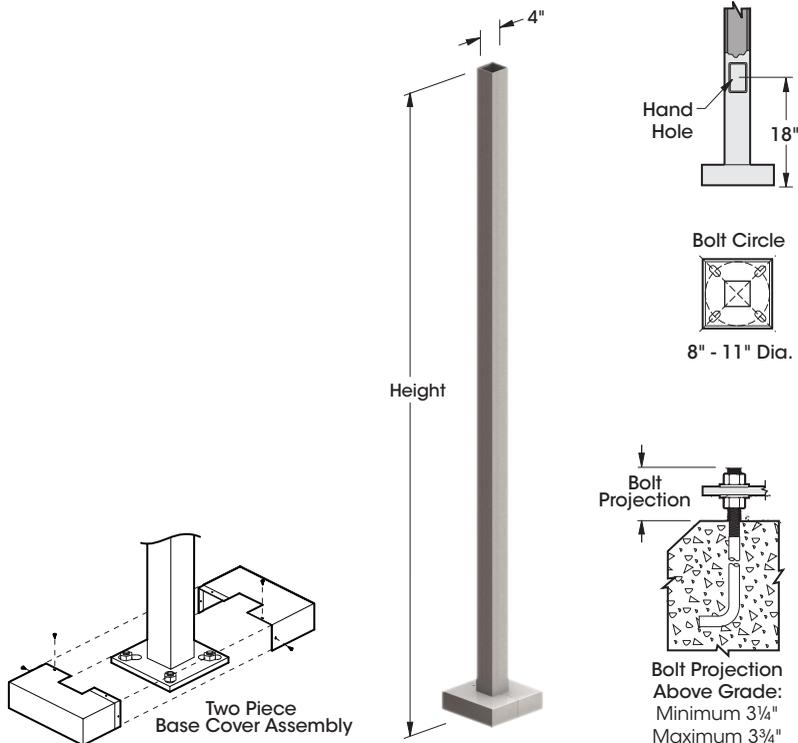


QSR - PLED TWIN ASSEMBLY

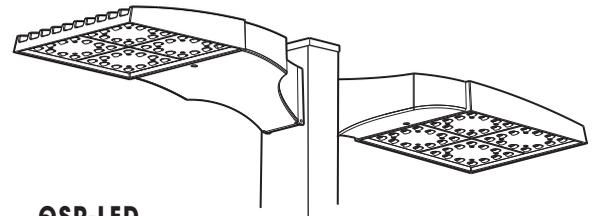
140 MPH PROMOTION

SPECIFICATIONS

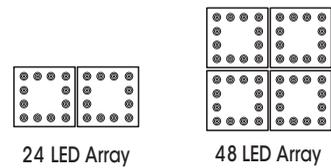
POLE



PLED™ MODULES



QSR-LED
E.P.A.= 0.45
Available in:
48 & 24LED Module



SPEC / ORDERING INFORMATION

POLE	CATALOG #	VOLTAGE	WATTS	LUMENS	REPLACES HID	LED COUNT	OPTIONS
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11-2180/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	* = Specify Voltage		Lumens Per Fixture			<input type="checkbox"/> HOUSE SIDE SHIELD HS-PLED SURGE PROTECTOR SP (Now included with luminaire for field installation)
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11-2180/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	<input type="checkbox"/> 120	68	7548	150W	24	
		<input type="checkbox"/> 208	68	7480	150W	24	
		<input type="checkbox"/> 240	79	10349	250W	48	
		<input type="checkbox"/> 277	79	10270	250W	48	
20'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-204-7-2180/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ						
20'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-204-7-2180/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ						
25'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-254-7-2180/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ						
25'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-254-7-2180/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ						
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11-2180/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	* = Specify Voltage					
15'0"- 4" Sq - 11Ga	<input type="checkbox"/> SNTS-154-11-2180/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	<input type="checkbox"/> 347	68	7548	150W	24	
		<input type="checkbox"/> 480	68	7480	150W	24	
20'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-204-7-2180/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ						
20'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-204-7-2180/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ						
25'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-254-7-2180/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ						
25'0"- 4" Sq - 7Ga	<input type="checkbox"/> SNTS-254-7-2180/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ						

