SAYSPEC
BY SAYLITE

BIR35

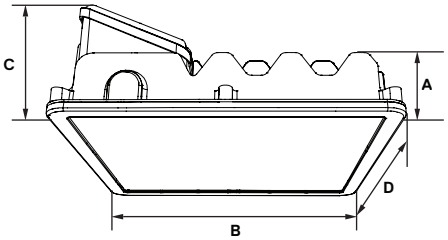
Birmingham LED 16˝ Area, Wall, and Flood Light

Shown with FLEM6 Accessory.

BUY AMERICAN ACT COMPLIANT

Shown with Wall Mount Option.

Shown with Slipfitter Option.



Dimensions	
Width (B)	16½˝ (419mm)
Length (D)	16½˝ (419mm)
Height (A)	3˝ (76mm)
Height (C)	7˝ (178mm)

Length with Mount (L)

Bracket (BR): 21⅜˝ (543mm)
Slipfitter (SF): 22¾˝ (557mm)
Yoke (LY): 21½˝ (547mm)
Mounting Arm Adaptor (MA): 21˝ (534mm)
Wall Mount Bracket (WM): 17½˝ (447mm)

The SaySpec BIR35Q Birmingham luminaire is available in two wattages with a wide choice of mounting configurations and optical distributions designed to replace HID lighting systems from 150w to 1000w MH or HPS. Typical applications include general area, parking, flood, security, and accent lighting for retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities. Mounting heights of 16 to 35 feet can be used based on light level and uniformity requirements.

SPECIFICATIONS AND FEATURES:

HOUSING:
Heavy-Duty Die Cast Aluminum Housing & Front Frame, Integral Heat Sinking, Driver Compartment. Photocell Adaptable.

LISTING & RATINGS:
CSA: Listed for Wet Locations, ANSI/UL 1598, 8750; IP66 Sealed LED Compartment.

FINISH:
Textured Architectural Bronze Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

LENS:
Tempered Clear Flat Glass Lens.

MOUNTING OPTIONS:
Mount with Two-Piece Swivel Bracket, Adjustable Slipfitter, Yoke, Mounting Arm Adaptor or Wall Mount Bracket.

LED:
Aluminum Boards; 419,000 Hours of L70 LED Life (25˚C)

WATTAGE:
174w Array: 175.2w, System: 187w; (250-400w HID Equivalent)
262w Array: 262w, System: 286w; (400-1000w HID Equivalent)

DRIVER:
Electronic Driver, 120-277V, 50/60Hz or 347-480V, 50/60Hz; Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 6kV. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

CONTROLS:
Fixtures Ordered with Factory-Installed Photocell or Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Implied and May Not Be Available, Please Consult Factory. Fixtures are Tested with SaySpec Controls and May Not Function Properly With Controls Supplied By Others. Fixtures are NOT Designed for Use with Line Voltage Dimmers.

WARRANTY:
5-Year Warranty for -40°C to +50°C Environment.

See Page 4 for Projected Lumen Maintenance Table.

Order Information Example: BIR35QF1X262U5KCZBRSP

BIR35Q ____ ____ ____ ____ ____ C ____ ____ ____

Model	Optics/Beam	Wattage	Driver	CCT	Lens	Color	Mounting	Options
BIR35Q=Birmingham LED 16˝ Area, Wall, and Flood Light	**A**=Type I/ NEMA 7H x 5V **B**=Type II/NEMA 7H x 7V **C**=Type III/NEMA 7H x 7V **D**=Type IV/NEMA 7H x 6V **F**=Type V/NEMA 7H x 7V **I**=Narrow Beam/NEMA 4H x 4V* *4K only See Page 3 & 4 for Distribution Information.	**1X174**=174w **1X262**=262w	**U**=120-277V **H**=347-480V	**3K**=3000K* **4K**=4000K **5K**=5000K *Type V Optic Only.	**C**=Clear Flat Glass Lens	**Z**=Bronze **C**=Custom (Consult Factory)	**BR**=Two-Piece Swivel Bracket **SF**=Slipfitter **LY**= Large Yoke **MA**=Mounting Arm Adaptor **WM**=Wall Mount Bracket **NM**=No Mount	**SF**=Single Fuse (120-277V Only) **DF**=Double Fuse (120-277V Only) **SP**=Surge Protection **R3**=3-Pin Twist Lock Photocell Receptacle **R5**=5-Pin Twist Lock Photocell Receptacle **R7**=7-Pin ANSI C136.41—2013 Twist Lock Photocell Receptacle

Project Information:

PROJECT NAME: _____ FIXTURE TYPE: _____

COMPLETE CATALOG#: _____ DATE: _____

COMMENTS: _____

Certification & Listings:

IP66

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MOUNTING OPTIONS:

BIR35Q with Two-Piece Swivel Bracket (BR)

Two-Piece Stamped Steel Adjustable Bracket, Bronze Powdercoat Finish, Includes Hardware.

BIR35Q with External Slipfitter (SF)

External Mount Die-Cast Adjustable Slipfitter for 2⅜˝ Tenons, Bronze Powdercoat Finish, Includes Hardware.

BIR35Q with Yoke (Y)

Stamped Heavy-Duty Steel, Bronze Powdercoat Finish.

BIR35Q w/ Pole Mounting Arm Adaptor (MA)

Fits 2⅜˝ Arm, Includes Hardware, Bronze Powdercoat Finish.

BIR35Q with Wall Mount Bracket (WM)

Wall Bracket, Heavy-Duty Stamped Steel, Bronze Powdercoat Finish, Includes Hardware.

EPA (EFFECTIVE PROJECTED AREA) Shown with FLEM6 mounting.

Configuration	EPA (Ft^2)	Weight (Lbs.)
1	.66	29 Lbs

Configuration	EPA (Ft^2)	Weight (Lbs.)
2@180˚ Mount	1.32	58 Lbs
2@90˚ Mount	.90	58 Lbs

Configuration	EPA (Ft^2)	Weight (Lbs.)
3@90˚ Mount	1.45	87 Lbs
3@120˚ Mount	1.36	87 Lbs

Configuration	EPA (Ft^2)	Weight (Lbs.)
4@90˚ Mount	1.45	116 Lbs

ACCESSORIES & REPLACEMENT PARTS:

PTASUNVZ

FLEMWMZ

FLEM6Z

FLEM10Z

FLEM12Z

PTSB1SZ

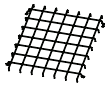
PTSB290SZ

PTSB2180SZ

PTSB390SZ*

PTSB3120SZ*

PTSB490SZ*



AL35WG

AL35GSZ

Mounting Accessories (Order Separately, Field Installed)	
PTASUNVZ	Square Pole Tenon Adaptor Allows Installation of Up to 4 Fixtures, Fits 2⅜˝ Vertical Tenon, Bronze Powdercoat Finish. Use with Extruded Mounting Arms.
FLEMWMZ	Stamped Heavy-Duty Steel Wall Bracket for Extruded Mounting Arms, Bronze Powdercoat Finish.
PTSB1SZ	Single Pole Tenon Spoke Bracket, 2⅜˝ Horizontal Mounting Arm, Bronze Powdercoat Finish, Includes Hardware.
PTSB290SZ	Twin Pole Tenon Spoke Bracket, 2⅜˝ Horizontal 90º Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
PTSB2180SZ	Twin Pole Tenon Spoke Bracket, 2⅜˝ Horizontal 180º Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
PTSB390SZ*	Triple Pole Tenon Spoke Bracket, 2⅜˝ Horizontal 90º Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
PTSB3120SZ*	Triple Pole Tenon Spoke Bracket, 2⅜˝ Horizontal 120º Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
PTSB490SZ*	Quad Pole Tenon Spoke Bracket, 2⅜˝ Horizontal 90º Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
FLEM6◊Z	6˝ Extruded Aluminum Mounting Arm, Bronze Powdercoat Finish, Includes Hardware. Fits Square Poles. Mounts at 3º tilt.
FLEM10◊Z	10˝ Extruded Aluminum Mounting Arm, Bronze Powdercoat Finish, Includes Hardware. Fits Square Poles. Mounts at 3º tilt.
FLEM12Z	12˝ Extruded Aluminum Mounting Arm, Bronze Powdercoat Finish, Includes Hardware. Fits Square Poles. Mounts at 3º tilt.

◊Add R for Round Pole Mounting, Fits 4˝ & 5˝ Diameter Poles.

***Non-stock item. Consult factory for lead time.**

Accessories (Order Separately, Field Installed)	
P18131	Twist Lock Non-Shorting (Open) Cap Disconnects Service to Fixture for Temporary or Permanent Disabling (Fixture Always Off). IP65, 480V Maximum.
P18132	Twist Lock Shorting Cap Provides Fixed Service to Fixture (Fixture Always on). IP65, Rated Load 7200w Tungsten.
P18140	110-120VAC Instant Twist Lock Photocell
P18150	120VAC Time Delay Twist Lock Photocell
P18152	277VAC Time Delay Twist Lock Photocell
P18156	120-277VAC Universal Twist Lock Photocell
P18157	480VAC Time Delay Twist Lock Photocell. For 480V use only.
AL35GSZ	Aluminum Glare/House Side Shield, Bronze Powdercoat Finish, Includes Hardware.
AL35WG	Wire Guard, Stainless Steel Construction, Includes Hardware.

Replacement Parts (Order Separately, Field Installed)	
AL35GL	Tempered Clear Flat Glass Lens.
FL73BRZ	Two-Piece Stamped Steel Adjustable Bracket, Bronze Powdercoat Finish, Includes Hardware.
BIR35YZ	Stamped Heavy-Duty Steel Yoke, Bronze Powdercoat Finish, Includes Hardware.
FL73SFXZ	External Mount Die-Cast Adjustable Slipfitter for 2⅜˝ Tenons, Bronze Powdercoat Finish, Includes Hardware.
ALMAAZ	Die-Cast Adaptor for 2⅜˝ Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
WBR2Z	Wall Bracket, Heavy-Duty Stamped Steel, Bronze Powdercoat Finish, Includes Hardware.

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 Rev. 053121

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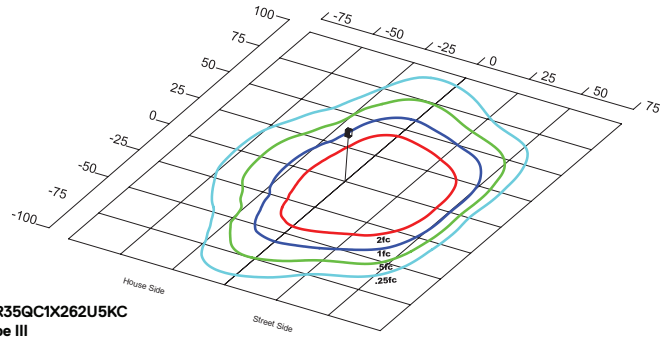
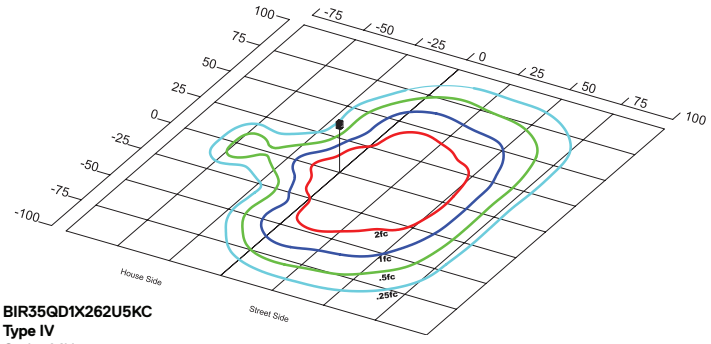
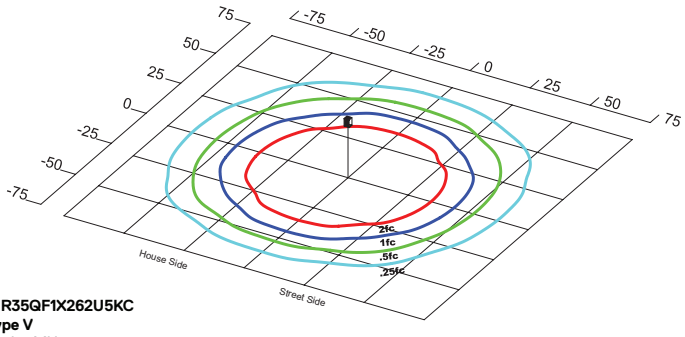
PHOTOMETRIC DATA



BIR35QC1X262U5KC
Type III
Grid in MH
MH=25 Feet



BIR35QD1X262U5KC
Type IV
Grid in MH
MH=25 Feet



BIR35QF1X262U5KC
Type V
Grid in MH
MH=25 Feet

PHOTOMETRIC PERFORMANCE

LED Board Watts	Drive Current (mA)	Input Watts		Optics	5000 CCT 80 CRI Lumens	LPW	B	U	G	4000 CCT 80 CRI Lumens	LPW	B	U	G	3000 CCT 80 CRI Lumens	LPW	B	U	G
LED 174w	525	187	A	Type I	22,575	121	4	0	3	21,051	113	4	0	3	-	-	-	-	-
			B	Type II	21,737	116	3	0	3	20,270	108	3	0	3	-	-	-	-	-
			C	Type III	21,524	115	3	0	3	20,071	107	3	0	3	-	-	-	-	-
			D	Type IV	18,917	101	3	0	4	17,640	94	3	0	3	-	-	-	-	-
			F	Type V	22,913	123	4	0	2	21,367	114	4	0	2	20,622	110	4	0	2
LED 262w	525	286	A	Type I	33,992	119	5	0	3	31,698	111	5	0	3	-	-	-	-	-
			B	Type II	32,730	114	3	0	3	30,521	107	3	0	3	-	-	-	-	-
			C	Type III	32,408	113	4	0	4	30,221	106	4	0	4	-	-	-	-	-
			D	Type IV	28,483	100	3	0	4	26,561	93	3	0	4	-	-	-	-	-
			F	Type V	34,500	121	5	0	2	32,172	112	5	0	2	31,052	109	5	0	2
			I	Narrow Beam	-	-	-	-	-	30,060	105	5	3	1	-	-	-	-	-

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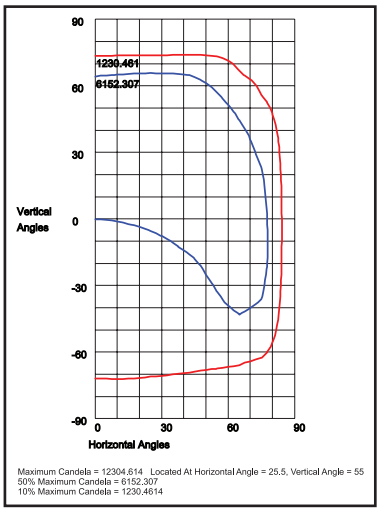
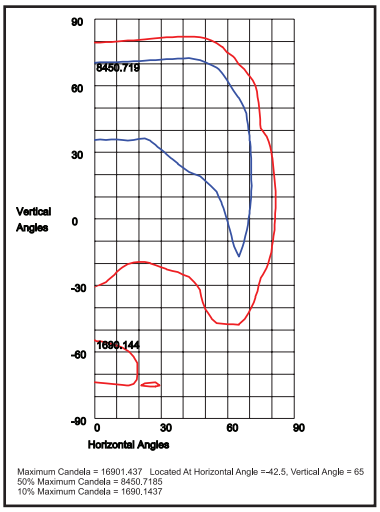
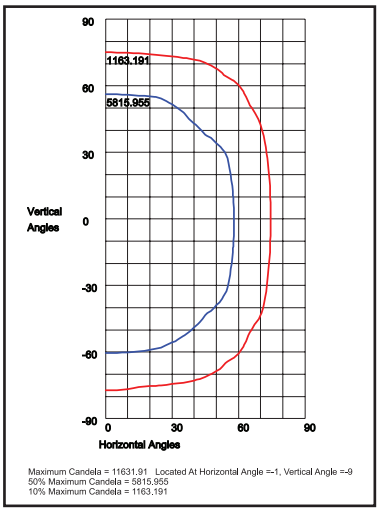


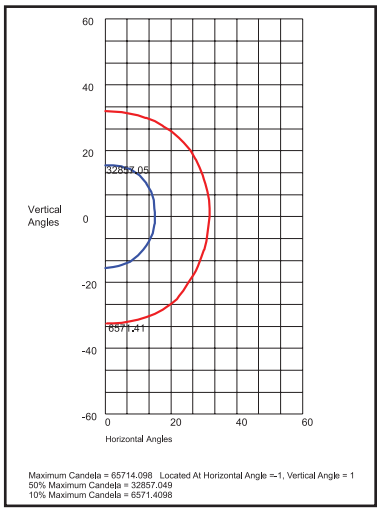
BIR35QC1X262U5KC
115°H x 70°V, NEMA 7H x 7V



BIR35QD1X262U5KC
120°H x 50°V, NEMA 7H x 6V



BIR35QF1X262U5KC
120°H x 120°V, NEMA 7H x 7V



BIR35QI1X262U4KC
30°H x 30°V, NEMA 4H x 4V

PHOTOMETRIC PERFORMANCE

LED Board Watts	Drive Current (mA)	Input Watts		Optics	5000 CCT 80 CRI Lumens	5000 CCT 80 CRI LPW	4000 CCT 80 CRI Lumens	4000 CCT 80 CRI LPW	3000 CCT 80 CRI Lumens	3000 CCT 80 CRI LPW
LED 174w	525	187	A	130°H x 75°V, NEMA 7H x 5V	22,515	120	20,995	112	-	-
			B	115°H x 40°V, NEMA 7H x 6V	21,725	116	20,259	108	-	-
			C	115°H x 70°V, NEMA 7H x 7V	21,436	115	19,989	107	-	-
			D	120°H x 50°V, NEMA 7H x 6V	18,588	99	17,334	93	-	-
			F	120°H x 120°V, NEMA 7H x 7V	22,852	122	21,309	114	20,567	110
LED 262w	525	286	A	130°H x 75°V, NEMA 7H x 5V	33,901	119	31,613	111	-	-
			B	115°H x 40°V, NEMA 7H x 6V	32,712	114	30,505	107	-	-
			C	115°H x 70°V, NEMA 7H x 7V	32,277	113	30,099	105	-	-
			D	120°H x 50°V, NEMA 7H x 6V	27,989	98	26,100	91	-	-
			F	120°H x 120°V, NEMA 7H x 7V	34,408	120	32,086	112	30,969	108
			I	30°H x 30°V, NEMA 4H x 4V	-	-	29,630	104	-	-

PROJECTED LUMEN MAINTENANCE

Data shown for 5000 CCT			Compare to MH			
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 25°C
L70 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 286w	1.00	0.98	0.96	0.93	419,000
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.97	0.94	0.88	251,000
L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.97	0.95	0.90	191,000

NOTES:
1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 525mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.

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