QHC SERIES

MODULAR CHASSIS LED HIGH BAY

HUBBELL Industrial Lighting

CAT.#	APPROVALS
JOB	TYPE

SPECIFICATIONS

Applications -

- Suitable for use with most wired or wireless lighting control systems
- Target opportunities include manufacturing facilities, warehouses, shipping, outdoor, freezers, storage, high bay and low bay

Features -

- Single 135W fixture directly replaces a 400W HID and equivalent systems
- Modular design allows multiple chassis configurations for higher wattage applications
- Ideal one-for-one replacement of conventional HID high-bay systems.
- IP66 applications standard, with sensor fixture is IP65 rated.
- Provides controlled uniform light distribution with acrylic optics without color shift
- Aisle optics deliver superior vertical illumination
- Long-life LEDs at L95 (95% lumen maintenance) at 60,000 hours reduce life cycle maintenance costs
- Choice of four lumen packages and dimming option available
- Rigid durable housing & solid state light engine are resistant to vibration
- Up to 114 lumens per watt
- Simple three step installation: hang gripple, snap gripple hook hangers to fixture & plug-in/wire fixture

Electrical -

- Input Voltage Range: 100-277 VAC Nom. (90-305 V Min/Max)
- Frequency: 50/60 Hz Nom. (47-63 Hz Min/Max)
- Power Factor: >0.90 @ full load, 100V through 277V
- Inrush Current: < 65 Amps max @ 230 VAC, cold start 25ºC (135W)
- Harmonic Distortion: THD < 20% @ full load
- Protection: Over-Voltage, Over-Temperature (110º) & Short Circuit with self-recovery
- Compliant to FCC Part 15 requirements for EMI/RFI emissions
- NEC/CEC compliant ballast disconnect is standard.
- Standard surge protection: ANSI Std. C62.41.2 Category A (10 kV)

Certifications -

- CSA listed for U.S. & Canada. Tested to UL 1598 & UL 8750 standards
- Luminaires bear appropriate listing labels
- Adheres to LM79, LM80 and TM21 industry standards
- DLC® (DesignLights Consortium) Qualified - see www.designlights.org
- Please refer to the Lighting Facts website for specific product qualifications at www.lightingfacts.com

Warranty -

- Five year-warranty standard. (Terms and Conditions Apply)

ORDERING INFORMATION

ORDERING EXAMPLE: QHC-UL-36C700-51K-AAO-WH-C6

QHC	-		-		-	700	-	51K	-		-		-		-	
Series		Voltage		Qty of LED Chips		Driver Current		Color Temp		Optics		OCC Sensor		Cord Plug		Other

SERIES

QHC	LED High Bay

VOLTAGE

UL	120-277 VAC
347	347 VAC
480	480 VAC

QTY OF LED CHIPS

36C	36 Chip Board
48C	48 Chip Board
60C	60 Chip Board
120C	120 Chip Board
180C	180 Chip Board

DRIVER CURRENT

700	700mA

COLOR TEMP

51K	5100

OPTICS

AAO	Asymmetrical Aisle Optics
OAO	Open Area Optics
LBO	Low Bay Optics
NAO	Narrow Aisle Optics

OCC SENSOR

WH	Wet Location High Bay Sensor[1]
DH-WH	Digital Dimming, Wet Location High Bay Sensor, WS[2]
DH-WL	Digital Dimming, Wet Location Low Bay Sensor, WS[2]
DB-WH	Digital Bi-Level, Wet Location High Bay Sensor, HBA

CORD PLUG[3]

C6	6' Cord, No Plug
C6/L715	6' Cord & Plug (L7-15P)
C6/515	6' Cord & Plug (515P)

OTHER

10GYSH	10' Gripple Y Snap-Hook Hangers
QTB	QHC Quick Top Box for Power Connectors
JP	Job Pack

Notes:
[1]HBA only. IP65 rated.
[2]Sensor programming module sold separately, FSIR-100.
[3]Contact factory for additional cord & mounting options.

AAO DISTRIBUTION

PHOTOMETRIC REPORT: QHC-UL-60C-700-51K-AAO | 15.01765

LUMINAIRE DATA

QHC-UL-60C-700-51K-AAO

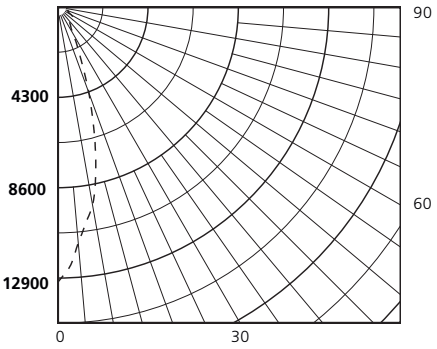
QHC fixture with asymmetrical aisle optics

BALLAST PISE-Z202B

Lamp	LED
Lumens	14,007
Watts	138
Efficacy	102
Mounting	Suspended
Spacing Criterion (0-DEG)	0.51
Spacing Criterion (DEG-90)	0.84

ZONE	LUMENS	% FIXT.
0-30	6,296	45.0
0-40	8,513	60.8
0-60	12,121	86.5
0-90	13,987	99.9

INDOOR CANDELA PLOT



Vertical Plane Through Maximum Candela

0.0 Degrees Vertical

OPERATING ENVIRONMENT

Proposed System	Min Temp	Max Temp
QHC-UL-36C	-30°C/-22°F	45°C/113°F
QHC-UL-48C	-30°C/-22°F	45°C/113°F
QHC-UL-60C	-30°C/-22°F	45°C/113°F
QHC-UL-120C	-30°C/-22°F	45°C/113°F
QHC-UL-180C	-30°C/-22°F	45°C/113°F

Application Notes

1. Application temperatures are provided to ensure the longevity and performance of the driver and LEDs.
2. Results are based off the In-Situ Temperature Measurement Test (ISTMT) along with the drivers' temperature and life curves.
3. Hubbell Lighting's 5 year warranty assumes operation at the maximum ambient temperature range.
4. Must mount fixture a minimum of 24" below ceiling.

LUMEN PACKAGE OPTIONS

Proposed System	Light Source Quantity & Type		CRI	CCT	Lumens Per Fixture	Input Watts	Lumens Per Watt
QHC-UL-36C	1	QHC 87W	70	5100K	7,547	87	87
QHC-UL-48C	1	QHC 115W	70	5100K	10,357	115	90
QHC-UL-60C	1	QHC 135W	70	5100K	14,007	138	102
QHC-UL-120C	1	QHC 270W	70	5100K	28,014	276	102
QHC-UL-180C	1	QHC 405W	70	5100K	42,021	414	102

*Lumen values shown are initial delivered lumens tested at 25°C per IES LM-79 standards.

OAO DISTRIBUTION

PHOTOMETRIC REPORT: QHC-UL-60C-700-51K-OAO | 15.01766

LUMINAIRE DATA

QHC-UL-60C-700-51K-OAO

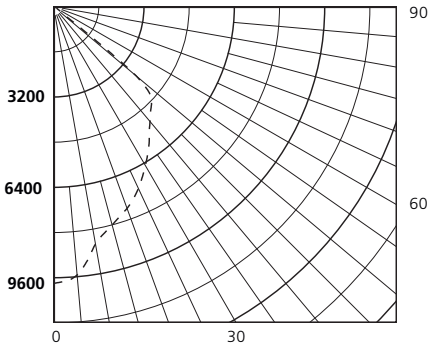
QHC fixture with open area optics

BALLAST PISE-Z202B

Lamp	LED
Lumens	14,582
Watts	134
Efficacy	109
Mounting	Suspended
Spacing Criterion (0-DEG)	1.00
Spacing Criterion (DEG-90)	1.00

ZONE	LUMENS	% FIXT.
0-30	6,386	43.8
0-40	10,080	69.1
0-60	14,378	98.6
0-90	14,582	100

INDOOR CANDELA PLOT



Vertical Plane Through Maximum Candela

0.0 Degrees Vertical

OPERATING ENVIRONMENT

Proposed System	Min Temp	Max Temp
QHC-UL-36C	-30°C/-22°F	45°C/113°F
QHC-UL-48C	-30°C/-22°F	45°C/113°F
QHC-UL-60C	-30°C/-22°F	45°C/113°F
QHC-UL-120C	-30°C/-22°F	45°C/113°F
QHC-UL-180C	-30°C/-22°F	45°C/113°F

Application Notes

1. Application temperatures are provided to ensure the longevity and performance of the driver and LEDs.
2. Results are based off the In-Situ Temperature Measurement Test (ISTMT) along with the drivers' temperature and life curves.
3. Hubbell Lighting's 5 year warranty assumes operation at the maximum ambient temperature range.
4. Must mount fixture a minimum of 24" below ceiling.

LUMEN PACKAGE OPTIONS

Proposed System	Light Source Quantity & Type		CRI	CCT	Lumens Per Fixture	Input Watts	Lumens Per Watt
QHC-UL-36C	1	QHC 87W	70	5100K	9,079	87	104
QHC-UL-48C	1	QHC 115W	70	5100K	12,235	113	108
QHC-UL-60C	1	QHC 135W	70	5100K	14,582	134	114
QHC-UL-120C	1	QHC 270W	70	5100K	29,164	268	114
QHC-UL-180C	1	QHC 405W	70	5100K	43,746	402	114

*Lumen values shown are initial delivered lumens tested at 25°C per IES LM-79 standards.

NAO DISTRIBUTION

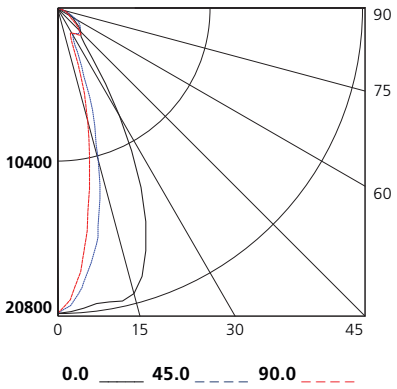
PHOTOMETRIC REPORT: QHC-UL-60C-700-51K-NAO | 15.02094

LUMINAIRE DATA

QHC-UL-60C-700_51K-NAO	
QHC fixture with narrow aisle optics	
BALLAST PISE-Z202B	
Lamp	LED
Lumens	13,534
Watts	138
Efficacy	98
Mounting	Suspended
Spacing Criterion (0-DEG)	0.92
Spacing Criterion (DEG-90)	0.40

ZONE	LUMENS	% FIXT.
0-30	7,389	54.6
0-40	8,969	66.3
0-60	12,083	89.3
0-90	13,354	100

INDOOR CANDELA PLOT



OPERATING ENVIRONMENT

Proposed System	Min Temp	Max Temp
QHC-UL-36C	-30°C/-22°F	45°C/113°F
QHC-UL-48C	-30°C/-22°F	45°C/113°F
QHC-UL-60C	-30°C/-22°F	45°C/113°F
QHC-UL-120C	-30°C/-22°F	45°C/113°F
QHC-UL-180C	-30°C/-22°F	45°C/113°F

Application Notes

1. Application temperatures are provided to ensure the longevity and performance of the driver and LEDs.
2. Results are based off the In-Situ Temperature Measurement Test (ISTMT) along with the drivers' temperature and life curves.
3. Hubbell Lighting's 5 year warranty assumes operation at the maximum ambient temperature range.
4. Must mount fixture a minimum of 24" below ceiling.

LUMEN PACKAGE OPTIONS

Proposed System	Light Source Quantity & Type		CRI	CCT	Lumens Per Fixture	Input Watts	Lumens Per Watt
QHC-UL-60C	1	QHC 135W	70	5100K	13,534	138	98
QHC-UL-120C	1	QHC 270W	70	5100K	27,068	276	98
QHC-UL-180C	1	QHC 405W	70	5100K	40,602	414	98

*Lumen values shown are initial delivered lumens tested at 25°C per IES LM-79 standards.

LBO DISTRIBUTION

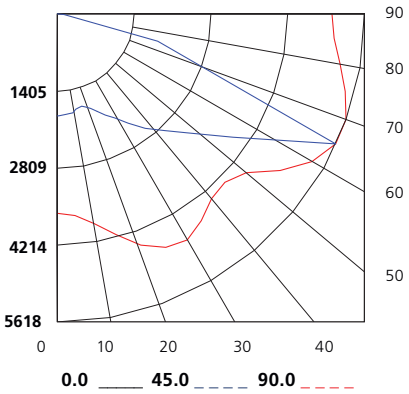
PHOTOMETRIC REPORT: QHC-UL-60C-700-51K-LBO | L03131102

LUMINAIRE DATA

QHC-UL-60C-700_51K-LBO	
QHC fixture with low bay optics	
BALLAST LED150W-053-C2800-M-D	
Lamp	LED
Lumens	15,150
Watts	134
Efficacy	113
Mounting	Suspended
Spacing Criterion (0-DEG)	2.76
Spacing Criterion (DEG-90)	2.30

ZONE	LUMENS	% FIXT.
0-30	1,511	10.0
0-40	2,742	18.0
0-60	7,195	48.0
0-90	15,150	100.0

POLAR GRAPH



OPERATING ENVIRONMENT

Proposed System	Min Temp	Max Temp
QHC-UL-36C	-30°C/-22°F	45°C/113°F
QHC-UL-48C	-30°C/-22°F	45°C/113°F
QHC-UL-60C	-30°C/-22°F	45°C/113°F
QHC-UL-120C	-30°C/-22°F	45°C/113°F
QHC-UL-180C	-30°C/-22°F	45°C/113°F

Application Notes

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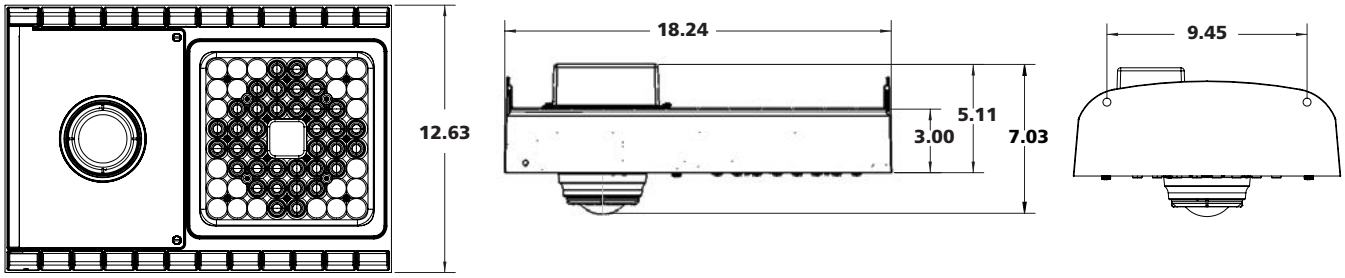
4. Must mount fixture a minimum of 24" below ceiling.

LUMEN PACKAGE OPTIONS

Proposed System	Light Source Quantity & Type		CRI	CCT	Lumens Per Fixture	Input Watts	Lumens Per Watt
QHC-UL-36C	1	QHC 87W	70	5100K	8,765	87	100
QHC-UL-48C	1	QHC 115W	70	5100K	11,302	113	100
QHC-UL-60C	1	QHC 135W	70	5100K	15,150	134	113
QHC-UL-120C	1	QHC 270W	70	5100K	30,300	268	113
QHC-UL-180C	1	QHC 405W	70	5100K	45,450	402	113

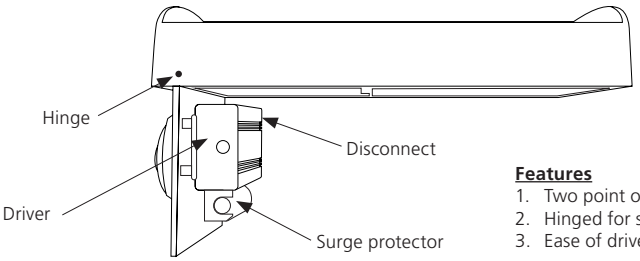
*Lumen values shown are initial delivered lumens tested at 25°C per IES LM-79 standards.

DIMENSIONS



NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

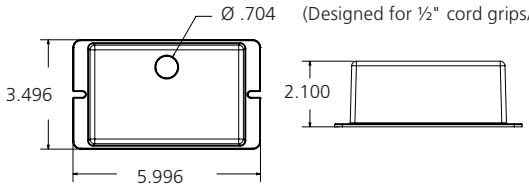
REMOVABLE DRIVER ACCESS



Features

1. Two point opening
2. Hinged for safety
3. Ease of driver maintenance

QHC QUICK TOP BOX



Fixture mounted junction box for wiring direct to luminaire.

MODULAR CHASSIS

QHC-UL-180C (405 WATT)

QHC-UL-120C (270 WATT)

*Images N.T.S.

For more information visit our web site: http://www.hubbellindustrial.com/
Phone: 1-864-678-1000

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