

# HBRV

## ECONOMICAL AND HIGH PERFORMING LED ROUND HIGH BAY

### 3 CCT AND POWER SELECTABLE FEATURES



HBRV-PS150-32/3C-W



HBRV-PS150-32/3C-B



HBRV-PS240-32/3C-B

An economical and energy efficient LED High Bay series with a simple, yet refined design. This type of luminaire is ideal for any application such as warehouses, manufacturing facilities, sports arenas, and other large high ceiling indoor applications. The IP65 rating allows this fixture to be installed where dust and water spray may be present. Meets NEMA 4X and NSF.

## FEATURES & SPECIFICATIONS

### CONSTRUCTION

#### Physical Characteristics

- Pure light aluminum shell provides optimal heat dissipation and high lumen efficacy
- Clear polycarbonate lens over LEDs provides a high light efficacy. Standard 90° beam angle. Optional 120° beam angle lens available (see accessories below)
- CCT and Power Select switches are placed discretely inside the driver housing
- 10' power cable and 10' dimming cable included in all configurations

- Integrated sensor receptacle makes for easy plug-and-play installation of smart and non-smart sensors. No wiring required. Sensors are sold separately, see accessories table

#### Mounting












- Hook mount included for suspended mounting. The hook is removable for 1/2 NPT conduit mounting. For additional security, use the safety cable accessory. Trunnion with pivot range ( $\pm 90^\circ$ ) is available for yoke bracket surface mounting (see accessories table below)

### PERFORMANCE DATA

- Available in 3 500, 4 000 and 5 000 K selectable color temperature
- 80+ CRI
- Electrical ratings: 120-347 V
- Estimated life of over 100 000 hours to L70
- 0-10 V dimming driver. Dimming cables included with this luminaire
- 6kV surge protection (standard). See options table for additional surge protection
- Operating temperature: -40°C to 50°C (-40°F to 122°F)

### COMPLIANCE

- cULus certified for wet locations
- IP65
- Meets NSF requirements (Splash Zone and Non Food Zone)
- ICES-005 Class A
- Meets NEMA 4X
- DLC Premium
- BC Hydro

OVERVIEW			
LIGHT SOURCE	LED	COLOR TEMPERATURE [K]	3CCT (3 500/4 000/5 000)
WATTS [W]	100/120/150 200/240	CRI	80+
LUMEN OUTPUT [LM]	15 663 - 38 345	WEIGHT [LBS]	4.4 - 9.5
EFFICACY [LM/W]	149 - 175		
<div>  <div>  <div>3CCT SELECTABLE</div> </div> <div>  <div>POWER SELECTABLE</div> </div> <div>  <div>QUICKSHIP</div> </div> <div>  <div>LED</div> </div> <div>  <div>DIMMABLE</div> </div> <div>  <div>WET LOCATION</div> </div> <div>  <div>IP RATING</div> </div> <div>  <div>ICES 005</div> </div> <div>  <div>CERTIFIED</div> </div> <div>  <div>DLC LISTED PREMIUM</div> </div> </div>			

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

## QUICK SHIP ORDERING GUIDE<sup>1</sup>



## CCT AND POWER SELECTABLE

PART NUMBER	DLC PREMIUM UNIQUE ID <sup>7</sup>	WATTS [W]	VOLTS [V AC]	COLOR TEMP. [K] <sup>2</sup>	LUMEN OUTPUT [LM] <sup>3,4</sup>	EFFICI- CACY [LM/W]	CRI	LIFE L70 [HRS] <sup>5</sup>	TESTED HOURS LM-80 [HRS] <sup>5</sup>	CALCU- LATED TM21 [HRS] <sup>5</sup>	BEAM ANGLE [°] <sup>6</sup>	PF	THD [%]
HBRV-PS150-32/3C-B	S-10TPAF	100/120/150	120-347	3 500/4 000/5 000	16 323/19 341/24 339	170	80+	>100 000	> 9 000	149 000	90°	> 0.9	< 20%
HBRV-PS150-32/3C-W	S-10TPAF	100/120/150	120-347	3 500/4 000/5 000	16 323/19 341/24 339	170	80+	>100 000	> 9 000	149 000	90°	> 0.9	< 20%
HBRV-PS240-32/3C-B	S-07D3M9	200/240	120-347	3 500/4 000/5 000	32 363/38 345	168	80+	>100 000	> 9 000	147 000	90°	> 0.9	< 20%

<sup>1</sup> **QUICK SHIP:** Product availability is subject to change without notice. Please contact your AimLite customer service representative to confirm inventory levels at time of order

<sup>2</sup> Typical color temperature range: +/- 5 %

<sup>3</sup> Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %

<sup>4</sup> Lumen values are based on 4 000 K default programming. Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures

<sup>5</sup> Life hours are derived from IESNA LM-80-08 testing report and projected per IESNA TM-21-11 extrapolations

<sup>6</sup> 120° beam angle also available. See accessory table

<sup>7</sup> Primary Use Designation: High-Bay Luminaires for Commercial and Industrial Buildings

## LUMEN SPECIFICATION TABLE

PART NUMBER	WATTS [W]	3 500 K		4 000 K		5 000 K	
		LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]
HBRV-PS150-32/3C-B	100	15 768	163	16 323	175	15 663	165
	120	18 486	158	19 341	171	18 567	158
	150	22 993	149	24 339	165	22 956	149
HBRV-PS150-32/3C-W	100	15 768	163	16 323	175	15 663	165
	120	18 486	158	19 341	171	18 567	158
	150	22 993	149	24 339	165	22 956	149
HBRV-PS240-32/3C-B	200	31 212	156	32 363	170	30 739	157
	240	36 975	149	38 345	166	36 706	150

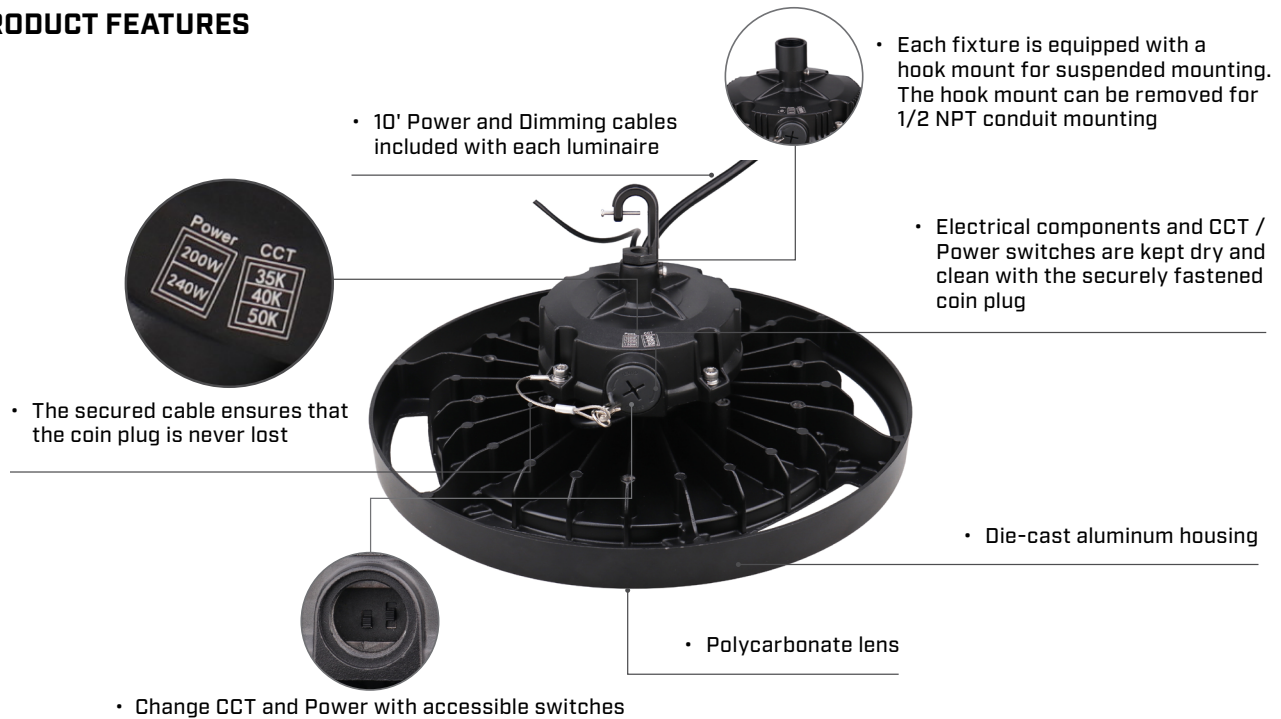
### DEFAULT PROGRAMMING

HBRV-PS150-32/3C-B: 150 W / 4 000 K

HBRV-PS150-32/3C-W: 150 W / 4 000 K

HBRV-PS240-32/3C-B: 240 W / 4 000 K

## PRODUCT FEATURES

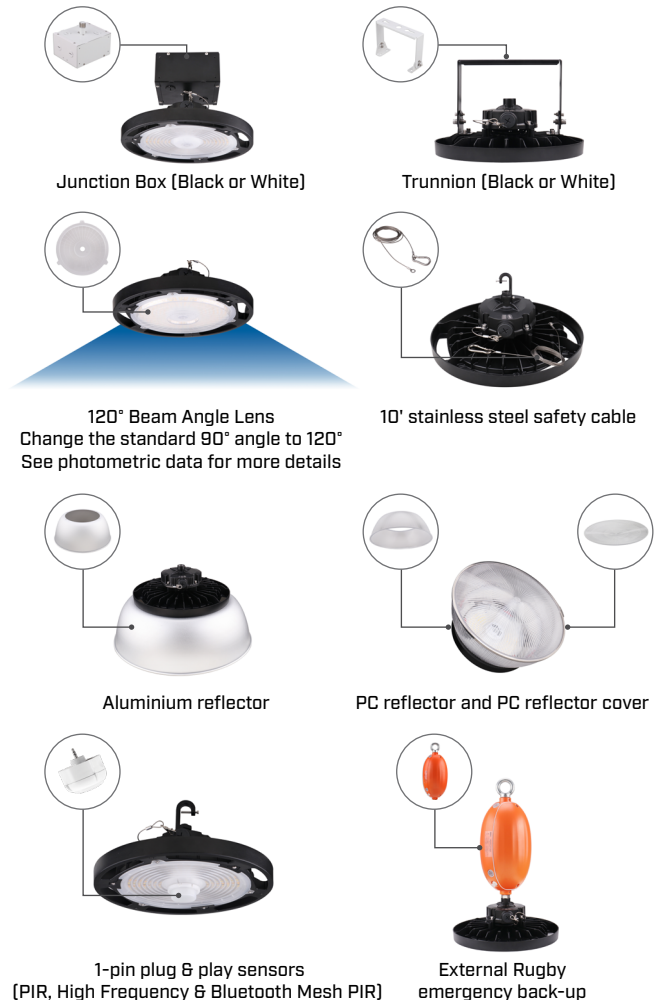


## ACCESSORIES (ORDER SEPARATELY)

PART NUMBER	TYPE	COMPATIBLE WITH
JB025	1/2 NPT MALE TO 3/4 NPT FEMALE ADAPTER WITH BLACK JUNCTION BOX	HBRV-PS150-32/3C-B, HBRV-PS240-32/3C-B
JB026	1/2 NPT MALE TO 3/4 FEMALE ADAPTER WITH WHITE JUNCTION BOX	HBRV-PS150-32/3C-W
HAR1159	1/2 NPT MALE TO 3/4 NPT FEMALE CONDUIT ADAPTER	ALL CONFIGURATIONS
BKT844-100-BK	TRUNNION 100W-150W BLACK	HBRV-PS150-32/3C-B
BKT844-100-WH	TRUNNION 100W-150W WHITE	HBRV-PS150-32/3C-W
BKT844-200-BK	TRUNNION 200W-240W BLACK	HBRV-PS240-32/3C-B
LEN406-100	120° BEAM ANGLE LENS 100W-150W	HBRV-PS150-32/3C-B, HBRV-PS150-32/3C-W
LEN406-200	120° BEAM ANGLE LENS 200W-240W	HBRV-PS240-32/3C-B
HAR1166	STAINLESS STEEL SAFETY CABLE (10FT)	ALL CONFIGURATIONS
REF694-AL-100	ALUMINIUM REFLECTOR 100W-150W	HBRV-PS150-32/3C-B, HBRV-PS150-32/3C-W
REF694-AL-200	ALUMINIUM REFLECTOR 200W-240W	HBRV-PS240-32/3C-B
REF694-PC-100	PC REFLECTOR 100W-150W	HBRV-PS150-32/3C-B, HBRV-PS150-32/3C-W
REF694-PC-200	PC REFLECTOR 200W-240W	HBRV-PS240-32/3C-B
REF695-PC-100	PC REFLECTOR COVER 100W-150W	HBRV-PS150-32/3C-B, HBRV-PS150-32/3C-W
REF695-PC-200	PC REFLECTOR COVER 200W-240W	HBRV-PS240-32/3C-B
OSI-PIR106	BLUETOOTH MESH PIR SENSOR	ALL CONFIGURATIONS
OSI-EFS06R <sup>1</sup>	EXTERNAL HIGH FREQUENCY SENSOR EFS06R	ALL CONFIGURATIONS
OSI-EFS07-AUX <sup>1</sup>	EXTERNAL PIR SENSOR KIT OSI-EFS07-AUX	ALL CONFIGURATIONS
OSI-RM51	REMOTE CONTROL RM51 FOR MOTION SENSORS	OSI-EFS06R, OSI-EFS07-AUX
BI-BLD-RM30R <sup>2</sup>	EXTERNAL RUGBY EMERGENCY BACK-UP BLD-RM30R	ALL CONFIGURATIONS
BI-RN51M	REMOTE CONTROL RUGBY EM BACK-UP RN51M	BI-BLD-RM30R

<sup>1</sup> To change factory setting, purchase remote OSI-IFS05R-HBL1 [sold separately].

<sup>2</sup> To manually test in EM mode remote BI-RN51N can be purchased separately.



## COMPATIBLE DIMMERS<sup>1</sup>

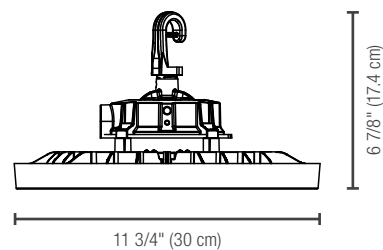
BRAND	MODEL NUMBER
LUTRON	NTSTV-DV-AL, NFTV-IV, DVTV-WH
LEVITON	DS710-10Z, IP710-DLZ
LEGRAND	RH4FBL3PW

### DIMMING RANGE: 10%-100%

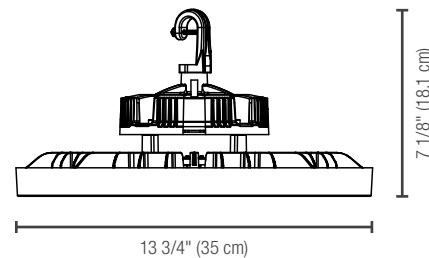
<sup>1</sup> This table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. Read and comply to the dimmer installation instructions. Consult dimming system manufacturer for additional support in operation. Some dimmers may require more than one product for stable operation. AimLite recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation.

## DIMENSIONS AND WEIGHT

100/120/150 W



200/240 W



	100-150W MODEL	200-240W MODEL
DIAMETER [CM/IN]	30/11.8	35/13.8
HEIGHT [CM/IN]	17.4/6.9	18.1/7.1
NET WEIGHT [LBS]	4.4	9.5

## OCCUPANCY SENSORS

## BI-LEVEL SENSORS

Detection - On at *[Detection Area]* % during *[Hold Time]* min., then *[Stand-by Dim level]* %

PART NUMBER	POSITION	VOLT [V]	TECH-NOLOGY	HEIGHT [FT]	DETECTION AREA [%]	INITIAL BRIGHTNESS [%]	SENSIVITY [%]	HOLD TIME [MIN]	STAND-BY DIM LEVEL [%]	STAND-BY PERIOD [MIN]	REMOTE1	LOCATION [°C]
OSI-EFS06R	EXTERNAL	120-347 (12 V DC)	HIGH FREQUENCY	40 (MAX)	100	50, 75, 100	0 (OFF), 50 (LOW), 100 (HIGH)	30S, 5MIN, 15MIN, 30MIN	0, 10, 30, 50	INFINITE	OSI-RM51	DRY AND WET, -30 TO +40
OSI-EFS07-AUX	EXTERNAL	120-347 (12 V DC)	PIR	20-40	100	50, 75, 100	0 (OFF), 50 (LOW), 100 (HIGH)	30S, 5MIN, 15MIN, 30MIN	0, 10, 30, 50	INFINITE	OSI-RM51	DRY AND DAMP, -30 TO +40
OSI-PIR106	EXTERNAL	120-347 (12 V DC)	BLUETOOTH & PIR	40 (MAX)	100	SEE APP INSTRUCTIONS	SEE APP INSTRUCTIONS	SEE APP INSTRUCTIONS	SEE APP INSTRUCTIONS	SEE APP INSTRUCTIONS	N/A	DRY AND DAMP, -30 TO +40

Default settings: Brightness: 100%, hold time: 5min, stand-by dim: 50%, stand-by time: 30min, photocell: off, sensitivity: 100%

## TRI-LEVEL SENSORS

Detection - ON at *[Detection Area]* % during *[Hold Time]* min, them *[Stand-by Dim level]* % during *[Stand-by time]* min, then OFF

PART NUMBER	POSITION	VOLT [V]	TECH-NOLOGY	HEIGHT [FT]	DETECTION AREA [%]	INITIAL BRIGHTNESS [%]	SENSIVITY [%]	HOLD TIME [MIN]	STAND-BY DIM LEVEL [%]	STAND-BY PERIOD [MIN]	REMOTE1	LOCATION [°C]
OSI-EFS06R	EXTERNAL	120-347 (12 V DC)	HIGH FREQUENCY	40 (MAX)	100	50, 75, 100	0 (OFF), 50 (LOW), 100 (HIGH)	30S, 5MIN, 15MIN, 30MIN	0, 10, 30, 50	10S, 5MIN, 15MIN, 30MIN, 60MIN	OSI-RM51	DRY AND WET, -30 TO +40
OSI-EFS07-AUX	EXTERNAL	120-347 (12 V DC)	PIR	20-40	100	50, 75, 100	0 (OFF), 50 (LOW), 100 (HIGH)	30S, 5MIN, 15MIN, 30MIN	0, 10, 30, 50	INFINITE	OSI-RM51	DRY AND DAMP, -30 TO +40
OSI-PIR106	EXTERNAL	120-347 (12 V DC)	BLUETOOTH & PIR	40 (MAX)	100	SEE APP INSTRUCTIONS	SEE APP INSTRUCTIONS	SEE APP INSTRUCTIONS	SEE APP INSTRUCTIONS	SEE APP INSTRUCTIONS	N/A	DRY AND DAMP, -30 TO +40

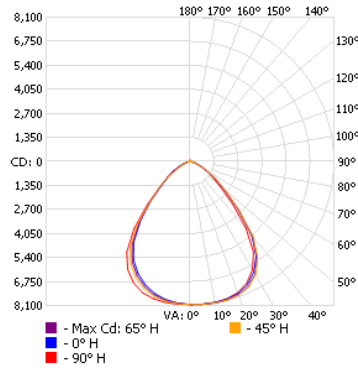
Default settings: Brightness: 100%, hold time: 5min, stand-by dim: 50%, stand-by time: 30min, photocell: off, sensitivity: 100%

\* To be ordered separately.

## PHOTOMETRIC DATA<sup>1</sup>

HBRV-PS150-32/3C-[B/W] • 100 W • 4 000 K • 15 629 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	6 428.5	41.1
0-40	10 232.2	65.5
0-60	14 504.1	92.8
60-90	999.3	6.4
70-100	306.1	2
90-120	22.3	0.1
0-90	15 503.4	99.2
90-180	125.6	0.8
0-180	15 629.0	100

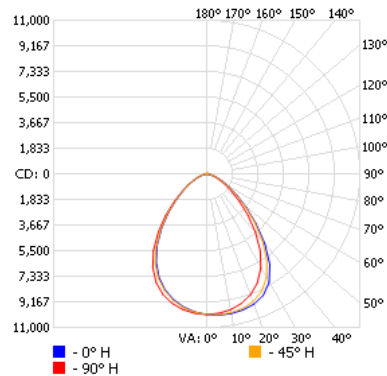
### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	2 780	3.1'	3.2'
3.3'	738	6.0'	6.2'
5.0'	321	9.2'	9.3'
6.7'	179	12.3'	12.5'
8.3'	117	15.2'	15.5'
10.0'	80.3	18.3'	18.7'

■ Vert. Spread: 84.9° ■ Hor. Spread: 86.1°

HBRV-PS150-32/3C-[B/W] • 120 W • 4 000 K • 19 298 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	7 674.7	39.8
0-40	11 956.4	62
0-60	17 445.7	90.4
60-90	1 690.2	8.8
70-100	579	3
90-120	31.7	0.2
0-90	19 135.9	99.2
90-180	162.4	0.8
0-180	19 298.3	100

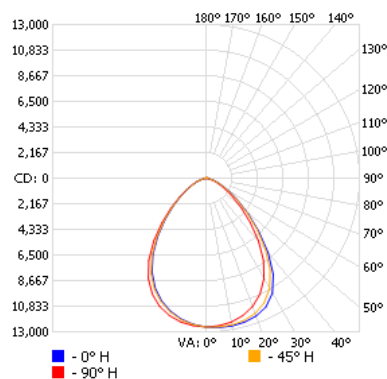
### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	3 483	3.1'	3.0'
3.3'	924	6.0'	5.8'
5.0'	403	9.1'	8.9'
6.7'	224	12.2'	11.9'
8.3'	146	15.1'	14.7'
10.0'	102	18.2'	17.7'

■ Vert. Spread: 84.6° ■ Hor. Spread: 83.1°

HBRV-PS150-32/3C-[B/W] • 150 W • 4 000 K • 24 286 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	9 616.2	39.6
0-40	15 013.8	61.8
0-60	21 952.3	90.4
60-90	2 131.9	8.8
70-100	728	3
90-120	38	0.2
0-90	24 084.2	99.2
90-180	201.6	0.8
0-180	24 285.8	100

### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	4 355	3.1'	3.0'
3.3'	1 156	6.0'	5.9'
5.0'	503	9.2'	8.9'
6.7'	280	12.3'	12.0'
8.3'	183	15.2'	14.8'
10.0'	126	18.3'	17.9'

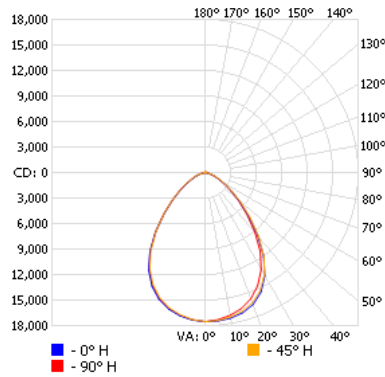
■ Vert. Spread: 84.9° ■ Hor. Spread: 83.5°

<sup>1</sup> Complete IES files available on our website.

## PHOTOMETRIC DATA<sup>1</sup>

HBRV-PS240-32/3C-B • 200 W • 4 000 K • 32 289 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	13 148.5	40.7
0-40	20 304.3	62.9
0-60	29 268.4	90.6
60-90	2 757.6	8.5
70-100	970.4	3
90-120	48.2	0.1
0-90	32 026.0	99.2
90-180	262.5	0.8
0-180	32 288.5	100

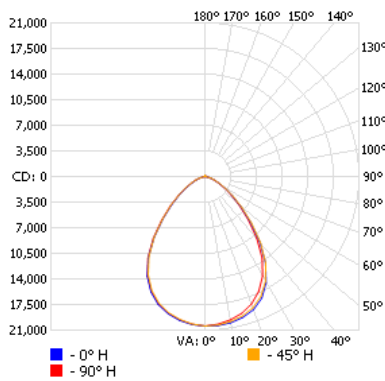
### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	6 059	3.0'	2.9'
3.3'	1 608	5.8'	5.7'
5.0'	700	8.8'	8.6'
6.7'	390	11.7'	11.6'
8.3'	254	14.5'	14.3'
10.0'	175	17.5'	17.2'

■ Vert. Spread: 82.5° ■ Hor. Spread: 81.6°

HBRV-PS240-32/3C-B • 240 W • 4 000 K • 38 258 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	15 462.3	40.4
0-40	24 020.9	62.8
0-60	34 725.7	90.8
60-90	3 223.4	8.4
70-100	1 123.3	2.9
90-120	57.6	0.2
0-90	37 949.0	99.2
90-180	309.1	0.8
0-180	38 258.1	100

### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	7 067	3.0'	3.0'
3.3'	1 876	5.9'	5.8'
5.0'	817	8.9'	8.9'
6.7'	455	12.0'	11.9'
8.3'	296	14.8'	14.7'
10.0'	204	17.8'	17.7'

■ Vert. Spread: 83.5° ■ Hor. Spread: 83.1°

<sup>1</sup> Complete IES files available on our website.