

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 AND
HBRV-PS180-32/3C-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.

FEATURES & SPECIFICATIONS

CONSTRUCTION

Physical Characteristics

- Pure light aluminum shell provides optimal heat dissipation and high lumen efficacy
- Clear polycarbonate impact-resistant 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).
- Operating temperature: -40°C to 50°C (-40°F to 122°F)

COMPLIANCE

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

OVERVIEW			
LIGHT SOURCE	LED	COLOR TEMPERATURE [K]	3CCT (3 500/4 000/5 000)
WATTS [W]	100/120/150 130/150/180 200/240	CRI	80+
LUMEN OUTPUT [LM]	15 663 - 38 345	WEIGHT [LBS]	4.4 - 9.5
EFFICACY [LM/W]	149 - 175		
            			

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



CCT AND POWER SELECTABLE

PART NUMBER	DLC PREMIUM UNIQUE ID ⁶	WATTS	VOLTS	COLOR TEMP.	LUMEN OUTPUT	EFFICI- CACY	CRI	LIFE L70	TESTED HOURS	CALCU- LATED	BEAM ANGLE	PF	THD
		[W]	[V AC]	[K] ¹	[LM] ^{2,3}	[LM/W]		[HRS] ⁴	[HRS] ⁴	[HRS] ⁴	[°] ⁵		[%]
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-PS180-32/3C-B	S-BX5MW7	130/150/180	120-347	3 500/4 000/5 000	23 258/25 467/29 510	165	80+	>100 000	> 9 000	147 000	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%

¹ Typical color temperature range: +/- 5 %

² Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %

³ Lumen values are based on 4 000 K default programming. Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures

⁴ Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 extrapolations

⁵ 120° beam angle also available. See accessory table

⁶ Primary Use Designation: High-Bay Luminaires for Commercial and Industrial Buildings

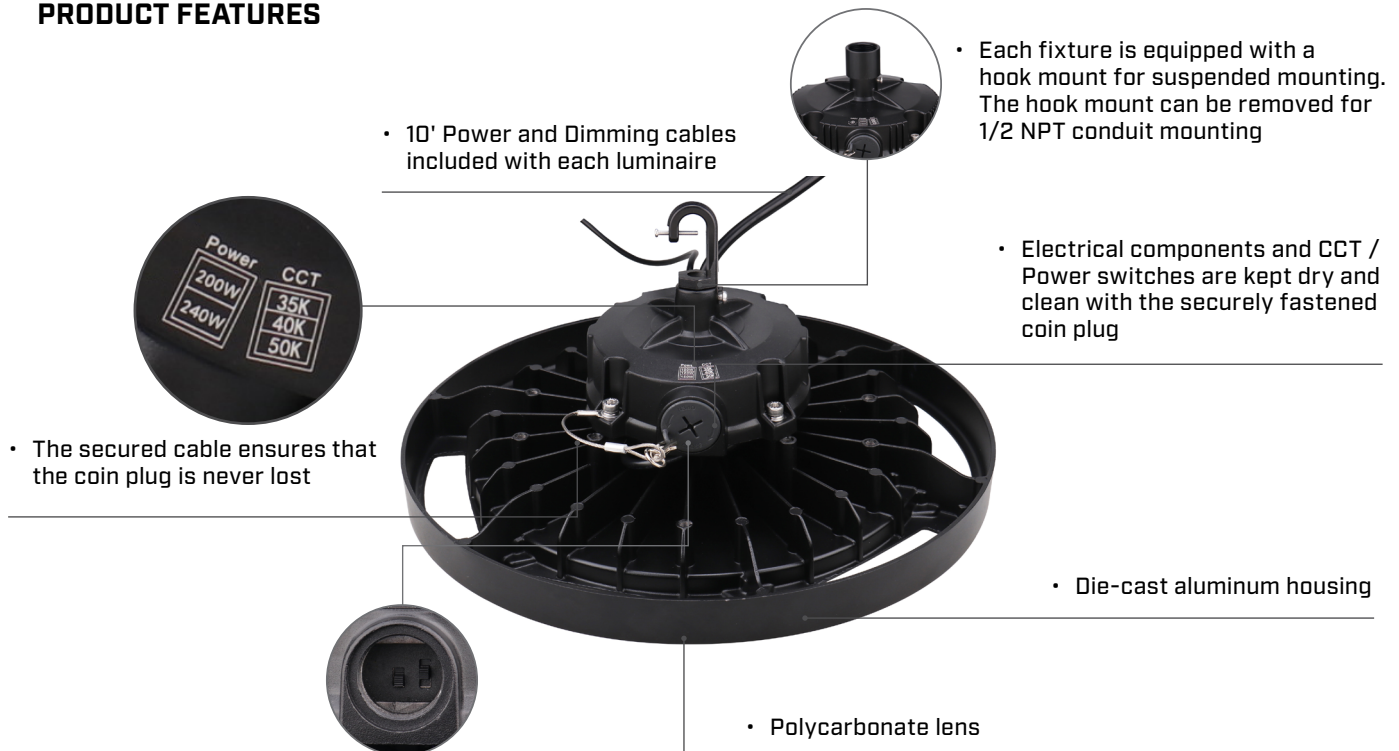
LUMEN SPECIFICATION TABLE

PART NUMBER	WATTS	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-PS180-32/3C-B	130	22 394	162	23 258	174	22 902	169
	150	24 588	160	25 467	169	24 800	165
	180	28 422	158	29 510	165	28 691	161
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-PS180-32/3C-B: 180 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-PS180-32/3C-B, HBRV-PS240-32/3C-B
JB026	1/2 NPT MALE TO 3/4 NPT 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-180W BLACK	HBRV-PS150-32/3C-B, HBRV-PS180-32/3C-B
BKT844-100-WH	TRUNNION 100W-180W 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-180W	HBRV-PS150-32/3C-B, HBRV-PS150-32/3C-W, HBRV-PS180-32/3C-B
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-180W	HBRV-PS150-32/3C-B, HBRV-PS150-32/3C-W, HBRV-PS180-32/3C-B
REF694-AL-200	ALUMINIUM REFLECTOR 200W-240W	HBRV-PS240-32/3C-B
REF694-PC-100	PC REFLECTOR 100W-180W	HBRV-PS150-32/3C-B, HBRV-PS150-32/3C-W, HBRV-PS180-32/3C-B
REF694-PC-200	PC REFLECTOR 200W-240W	HBRV-PS240-32/3C-B
REF695-PC-100	PC REFLECTOR COVER 100W-180W	HBRV-PS150-32/3C-B, HBRV-PS150-32/3C-W, HBRV-PS180-32/3C-B
REF695-PC-200	PC REFLECTOR COVER 200W-240W	HBRV-PS240-32/3C-B
WGD914-S ⁶	STAINLESS STEEL WIREGUARD 100-180W	HBRV-PS150-32/3C-B, HBRV-PS150-32/3C-W, HBRV-PS180-32/3C-B
WGD914-L ⁶	STAINLESS STEEL WIREGUARD 200-240W	HBRV-PS240-32/3C-B
WGD928-M ⁷	STAINLESS STEEL WIREGUARD 100-180W	HBRV-PS150-32/3C-B, HBRV-PS150-32/3C-W, HBRV-PS180-32/3C-B
WGD928-L ⁷	STAINLESS STEEL WIREGUARD 200-240W	HBRV-PS240-32/3C-B
OSI-EFS06R ^{1,2,3}	EXTERNAL HIGH FREQUENCY SENSOR EFS06R	ALL CONFIGURATIONS
OSI-EFS07-AUX ^{1,2,3,4}	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 ⁵	EXTERNAL RUGBY EMERGENCY BACK-UP BLD-RM30R	ALL CONFIGURATIONS
BI-RN51M	REMOTE CONTROL RUGBY EM BACK-UP RN51M	BI-BLD-RM30R
SUR10KV120347-SC	EXTERNAL 10KV SURGE PROTECTOR	ALL CONFIGURATIONS
SUR20KV120347-SC	EXTERNAL 20KV SURGE PROTECTOR	ALL CONFIGURATIONS

¹ Maximum ambient temperature for sensor is 55°C. When used in conjunction with reflectors REF694-AL-100, REF694-AL-200, REF694-PC-100 and REF694-PC-200, the ambient temperature cannot exceed 25°C

² To change the factory setting, purchase remote OSI-RM51 (sold separately)

³ Not for use in NSF environment

⁴ PIR sensor detection range is significantly reduced when used in conjunction with reflectors REF694-AL-100, REF694-AL-200, REF694-PC-100 and REF694-PC-200

⁵ To manually test in EM mode remote BI-RN51M can be purchased separately

⁶ Not compatible with OSI-EFS07-AUX

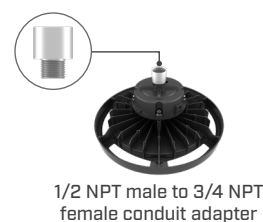
⁷ Compatible with all sensors

COMPATIBLE DIMMERS¹

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

DIMMING RANGE: 10%-100%

¹ 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.

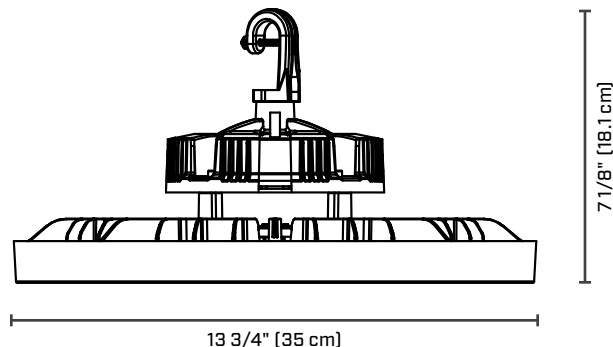
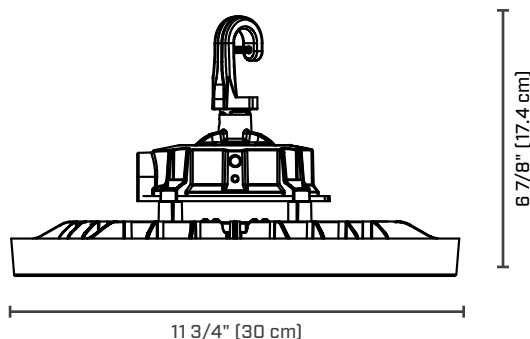


DIMENSIONS AND WEIGHTS

100/120/150 W

130/150/180 W

200/240 W



	100-150W & 130-180W MODELS	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	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 +55
OSI-EFS07-AUX	EXTERNAL	120-347	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 +55

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	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 +55
OSI-EFS07-AUX	EXTERNAL	120-347	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 +55

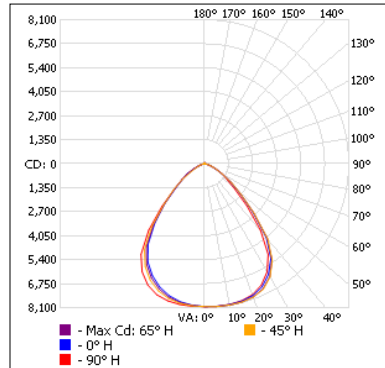
Default settings: Brightness: 100%, hold time: 5min, stand-by dim: 50%, stand-by time: 30min, photocell: off, sensitivity: 100%

* To be ordered separately.

PHOTOMETRIC DATA¹

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

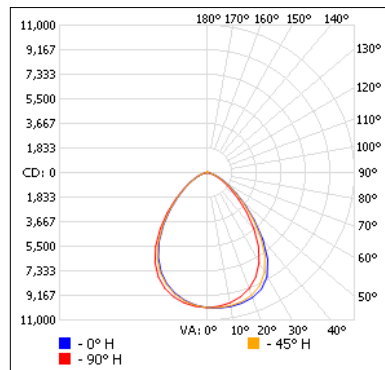
ILLUMINANCE AT A DISTANCE

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

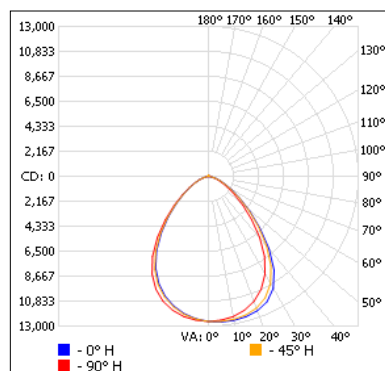
ILLUMINANCE AT A DISTANCE

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'

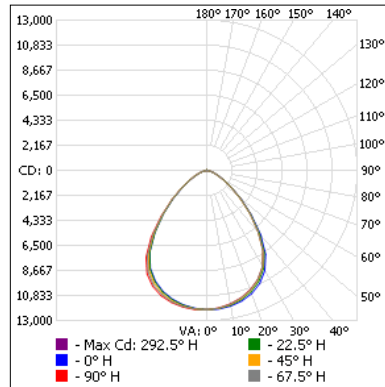
■ Vert. Spread: 84.9° ■ Hor. Spread: 83.5°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

HBRV-PS180-32/3C-B • 130 W • 4 000 K • 23 207 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	9 321.6	40.2
0-40	14 725.2	63.5
0-60	21 360.3	92
60-90	1 759.7	7.6
70-100	586.1	2.5
90-120	10.3	0
0-90	23 120.0	99.6
90-180	87.4	0.4
0-180	23 207.4	100

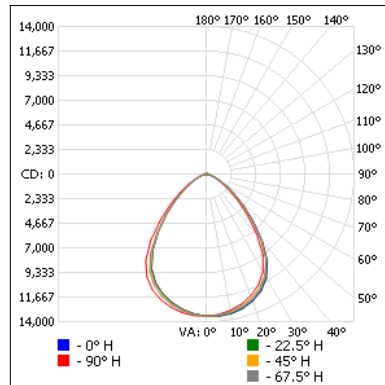
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	4 171	3.2'	3.2'
3.3'	1 107	6.1'	6.2'
5.0'	482	9.3'	9.4'
6.7'	269	12.5'	12.6'
8.3'	175	15.5'	15.6'
10.0'	121	18.6'	18.8'

■ Vert. Spread: 85.9° ■ Hor. Spread: 86.6°

HBRV-PS180-32/3C-B • 150 W • 4 000 K • 25 411 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	10 312.2	40.6
0-40	16 186.0	63.7
0-60	23 287.6	91.6
60-90	1 902.8	7.5
70-100	640.2	2.5
90-120	40.8	0.2
0-90	25 190.4	99.1
90-180	220.7	0.9
0-180	25 411.1	100

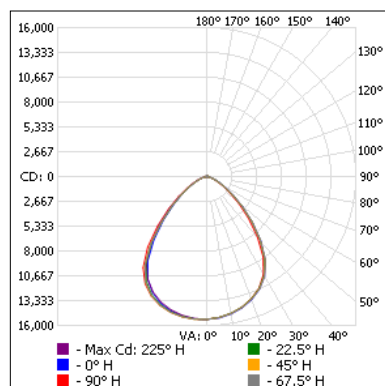
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	4 658	3.1'	3.1'
3.3'	1 236	6.0'	6.1'
5.0'	538	9.1'	9.2'
6.7'	300	12.2'	12.3'
8.3'	195	15.1'	15.3'
10.0'	135	18.2'	18.4'

■ Vert. Spread: 84.6° ■ Hor. Spread: 85.2°

HBRV-PS180-32/3C-B • 180 W • 4 000 K • 29 445 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	11 847.3	40.2
0-40	18 679.2	63.4
0-60	27 005.7	91.7
60-90	2 185.1	7.4
70-100	727.9	2.5
90-120	46.3	0.2
0-90	29 190.7	99.1
90-180	254.3	0.9
0-180	29 445.0	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	5 304	3.2'	3.2'
3.3'	1 408	6.1'	6.2'
5.0'	613	9.3'	9.3'
6.7'	341	12.4'	12.5'
8.3'	223	15.4'	15.5'
10.0'	153	18.6'	18.7'

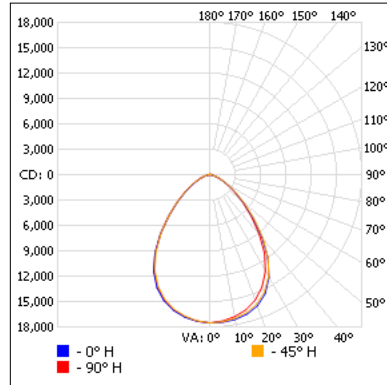
■ Vert. Spread: 85.8° ■ Hor. Spread: 86.1°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

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

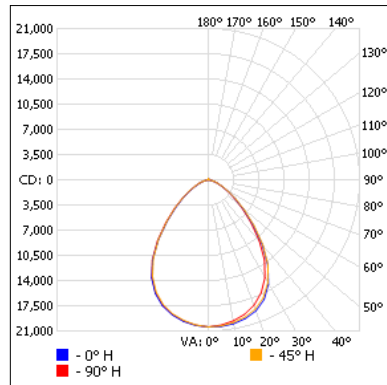
ILLUMINANCE AT A DISTANCE

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°

¹ Complete IES files available on our website.