

Catalog Number	
Notes	Type

RPT

Raptor Precision Floodlight



The RPT Raptor Precision Floodlight is a robust, sustainable solution for any flood lighting application. The RPT offers lumen packages for direct replacement of 750 - 2,000 watt HID floods. With energy savings exceeding 60% and expected service life over 20 years, Raptor Precision Floodlight luminaires excel at meeting the challenges associated with flood lighting. The RPT combines robust mechanical design features with the optical expertise, visual comfort and permanence of prismatic glass.

Mechanical

- Rugged grade A360 diecast aluminum (<1% copper)
- Rigorous 5-stage pretreatment polyester topcoat to ensure maximum durability that achieves a scribe creepage rating of 8 after 5,000 hours of salt spray
- Tool-less access with stainless steel latches available
- Adjustable yoke mount available in galvanized or stainless steel finish. Rated for 3G vibration per ANSI C136.31
- Tenon mount adapter designed to fit 2.375 inch to 2.875 inch tenon
- IP66 per IEC60068-2-3
- NEMA 4X rated for prismatic glass options
- IK08 rated for flat glass options and IK07 for prismatic glass options

Electrical

- Standard surge protection is 20kV/10kA "Extreme Level" per ANSI C136.2
- LED light engines are rated L70 > 100,000 hrs at 25°C
- Electronic driver has an expected life of > 100,000 hours at 25°C
- Driver voltage options: 120-277V 50/60 Hz and 277-480V 50/60 Hz
- XVOLT tank driver option for protection against dropped neutrals and other power quality issues
- Single and double fusing options available
- Luminaire ships standard with a 0-10V dimmable driver. Luminaire is capable of continuous or step dimming via the AO option or other installed controls.

Optical

- Borosilicate prismatic glass option ensures longevity and minimizes dirt depreciation while improving visual comfort
- NEMA optical patterns:
 - 2x2 Narrow
 - 3x3 Medium Narrow
 - 4x4 Medium
 - 5x5 Medium Wide
 - 6x6 Wide Flood
- 3000K, 4000K and 5000K CCT, 70 CRI
- Upper/Bottom Visor option available
- Multiple Louver options available
- Vandal Guard and Wire Guard options available

Controls

- 7 pin rotatable NEMA photocontrol receptacle
- Extreme long life solid state locking-style photocontrol – 20 year rated life
- Field adjustable output
- nLight Air daylight sensor

Certification & Standards

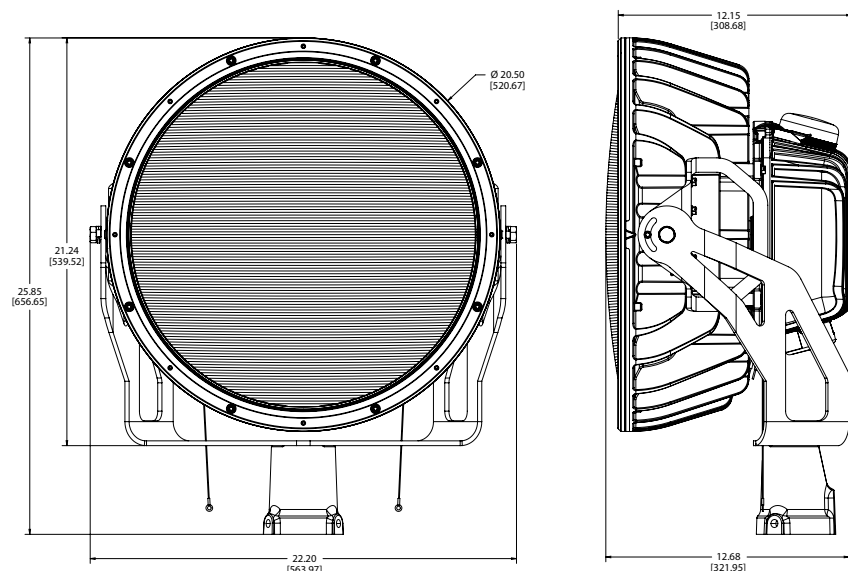
- CSA Certified to meet US and Canadian standards
- Rated for ambient temperatures from -40°C (-40°F) thru 45°C (113°F) (see [Performance Data](#) for exceptions)

Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C.

DIMENSIONAL DATA



MAX EPA: 3.0ft² (0.279m²) WEIGHT: 61-83lbs (27.67-42.64kg)

PALLET QTY: 6

Typical Applications

- Rail Yards
- Port Container Facilities
- Sports Lighting
- Correctional Facilities
- Large Area Industrial
- Wastewater Treatment Plants
- Airports
- Security Lighting

ORDERING INFORMATION

Series	LED Performance Package	Color Temperature	Voltage	Driver	Optics
RPT Raptor Precision Flood	P61 6 LEDs, 40,000 LM	30K 3000K	MVOLT 120 - 277V, 50/60Hz	ZT 0-10V Driver	Symmetric
	P91 9 LEDs, 40,000 LM	40K 4000K	120 120V, 50/60Hz		2x2 NEMA 2x2
	P62 6 LEDs, 60,000 LM	50K 5000K	208 208V, 50/60Hz		3x3 NEMA 3x3
	P92 9 LEDs, 60,000 LM		240 240V, 50/60Hz		4x4 NEMA 4x4
	P93 9 LEDs, 80,000 LM		XVOLT 277 - 480V, 50/60Hz		5x5 NEMA 5x5
	P94 9 LEDs, 100,000 LM		277X 277V, 50/60Hz, Utilizes XVOLT Driver		6x6 NEMA 6x6
	P95 9 LEDs, 120,000 LM ‡		347X 347V, 50/60Hz, Utilizes XVOLT Driver		
			480X 480V, 50/60Hz, Utilizes XVOLT Driver		
					Vertical Flood
					2x3 NEMA 2x3
					3x4 NEMA 3x4
					4x5 NEMA 4x5
					5x6 NEMA 5x6
					6x7 NEMA 6x7
					Horizontal Flood
					3x2 NEMA 3x2
					4x3 NEMA 4x3
					5x4 NEMA 5x4
					6x5 NEMA 6x5
					7x6 NEMA 7x6

Lens	Mounting Methods	Color	Surge Protection	Cord Length	Cord Type
FCG Flat Clear Glass ‡	YMG Yoke Galvanized	BKSDP Black super durable corrosion resistant	20KV 20kV/10kA w/ Indicator Light Extreme Surge (fail off)	04 4 foot cable length	23 12 Gauge, 3 Conductors
PG Prismatic Glass	YMS Yoke Stainless	BZSDP Bronze super durable corrosion paint		05 5 foot cable length	43 14 Gauge, 3 Conductors
	YSFG Galvanized Steel Yoke Bracket with Slip Fit Adaptor ‡	GHSDP Graphite super durable corrosion paint		06 6 foot cable length	63 16 Gauge, 3 Conductors
	YSFS Stainless Steel Yoke with Slip Fit Adaptor ‡	GYSDP Gray super durable corrosion resistant		08 8 foot cable length	
		WHS DP White super durable corrosion resistant		10 10 foot cable length	
				15 15 foot cable length	

Top Receptacle	Bottom Receptacle	Photocontrols	Misc Options	Guards, Louvers & Visors ‡
NTR No Receptacle	NBR No Receptacle	PCLL DLL photocontrol ‡	AO Adjustable Output ‡	IHL Honeycomb Louver ‡
PR7 7 pin NEMA photocontrol receptacle		SH Shorting Cap ‡	NL NEMA label	LV4 External louver, 4 rows
		RTLN nLight Air Twist to lock node ‡	TL Tool-less Entry	LV7 External louver, 7 rows
			F1 Single fusing ‡	UBV Upper/bottom visor
			F2 Double fusing ‡	VG Polycarbonate vandal guard
				WGG Galvanized wire guard
				WGS Stainless steel wire guard

Accessories
RPTLAS Laser Aiming System

Option Value Ordering Restrictions ‡	
Option value	Restriction
AO	Not available with other dimming controls.
F1	Available with 120, 277X or 347X only.
F2	Available with 208, 240 or 480 only.
FCG	Not available with 2X3, 3X2, 3X4, 4X3, 4X5, 5X4, 5X6, 6X5, 6X7, 7X6 optics. Not NEMA 4X Rated.
Guards, Louvers & Visors	Only one guard, louver, or visor is permitted per fixture, except for the honeycomb louver (IHL). Finish matches selected luminaire finish. All options ship separately for field installation, with the exception of the honeycomb louver (IHL).
IHL	Must be specified at time of order and is not available for field installation. Available for use with all other guards, louvers, and visors.
P95	Not available with MVOLT, 120, 208 or 240. 35°C maximum ambient temperature.
PCLL	Not available with XVOLT. Select 277X, 347X or 480X with an XVOLT driver. Requires PR7 top receptacle.
RTLN	Not available with XVOLT. Select 277X, 347X or 480X with an XVOLT driver. Requires PR7 top receptacle and ZT driver.
SH	Requires PR7 top receptacle.
YSFG, YSFS	Not 3G vibration rated.

OPTIONS MATRIX

RPT		Voltage		Driver	Top Receptacle		Bottom Receptacle	Photocontrols		
		MVOLT	XVOLT	ZT	NTR	PR7	NBR	PCLL	SH	RTLN
Voltage	MVOLT				Y	Y	Y	Y	Y	Y
	XVOLT				Y	Y	Y	Y	Y	Y
Driver	ZT				Y	Y	Y	Y	Y	Y
Top Receptacle	NTR	Y	Y	Y			Y	N	N	N
	PR7	Y	Y	Y			Y	Y	Y	Y
Bottom Receptacle	NBR	Y	Y	Y	Y	Y		Y	Y	Y
Photocontrols	PCLL	Y	Y	Y	N	Y	Y			
	SH	Y	Y	Y	N	Y	Y			
	RTLN	Y	Y	Y	N	Y	Y			

LUMEN MAINTENANCE

Lumen Package	0 hours	25,000 hours	50,000 hours	75,000 hours	100,000 hours
P61 thru P94	100%	97%	95%	93%	<i>91%</i>
P95	100%	96%	91%	87%	<i>83%</i>

The *italicized* data is extrapolated beyond the TM-21 standard

ADJUSTABLE OUTPUT PERFORMANCE

AO Position	Lumen Output	Wattage
1	17%	17%
2	29%	28%
3	40%	38%
4	51%	49%
5	62%	60%
6	72%	71%
7	83%	83%
8	100%	100%

ELECTRICAL LOAD

PERFORMANCE PACKAGE	WATTS	Current (A)					
		120V	208V	240V	277V	347V	480V
P61	233	1.9	1.1	1.0	0.9	0.7	0.5
P91	229	1.9	1.1	1.0	0.8	0.7	0.5
P62	373	3.1	1.8	1.5	1.3	1.1	0.8
P92	365	3.0	1.7	1.5	1.3	1.0	0.8
P93	492	4.2	2.4	2.1	1.8	1.4	1.0
P94	630	5.4	3.1	2.7	2.3	1.9	1.3
P95	816	7.0	4.0	3.5	3.0	2.4	1.7

LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

Use these factors to determine relative lumen output for average ambient temperatures from 0-45°C (32-113°F).

Ambient Temperature (°C) Factor				
0°C	15°C	25°C	35°C	45°C
1.03	1.01	1.00	0.98	0.96

PERFORMANCE DATA

RPT	Distribution	Glass	Input Watts	3000K		4000K		5000K	
				Lumens	LPW	Lumens	LPW	Lumens	LPW
P61 (45°C/ 113°F max temp)	2x2	FCG	233	34805	150	35710	154	35861	154
	3x3			40240	173	41286	178	41461	178
	4x4			39979	172	41019	176	41192	177
	5x5			39126	168	40143	173	40312	173
	6x6			35601	153	36526	157	36681	158
	2x2	PG		33585	144	34458	148	34604	149
	3x3			38634	166	39638	170	39805	171
	4x4			38388	165	39386	169	39553	170
	5x5			36569	157	37519	161	37678	162
	6x6			33750	145	34627	149	34773	150
	2x3 3x2			32608	140	33455	144	33597	144
	3x4 4x3			38143	164	39134	168	39300	169
	4x5 5x4			38044	164	39033	168	39197	169
	5x6 6x5			36041	155	36978	159	37134	160
	6x7 7x6			33226	143	34089	147	34233	147
P91 (45°C/ 113°F max temp)	2x2	FCG	229	35828	156	36759	160	36914	161
	3x3			41423	181	42500	185	42679	186
	4x4			41154	179	42224	184	42402	185
	5x5			40276	176	41322	180	41497	181
	6x6			36647	160	37600	164	37758	165
	2x2	PG		34572	151	35471	155	35621	155
	3x3			39769	173	40803	178	40975	179
	4x4			39517	172	40544	177	40715	177
	5x5			37643	164	38622	168	38785	169
	6x6			34741	151	35644	155	35795	156
	2x3 3x2			33566	146	34439	150	34584	151
	3x4 4x3			39264	171	40284	176	40454	176
	4x5 5x4			39162	171	40180	175	40349	176
	5x6 6x5			37100	162	38065	166	38225	167
	6x7 7x6			34202	149	35091	153	35239	154
P62 (45°C/ 113°F max temp)	2x2	FCG	373	52331	140	53691	144	53918	145
	3x3			60503	162	62075	166	62337	167
	4x4			60110	161	61673	165	61933	166
	5x5			58827	158	60356	162	60611	163
	6x6			53527	144	54918	147	55150	148
	2x2	PG		50497	135	51809	139	52028	140
	3x3			58087	156	59597	160	59849	160
	4x4			57718	155	59219	159	59469	159
	5x5			54982	147	56411	151	56650	152
	6x6			50744	136	52063	140	52282	140
	2x3 3x2			49027	131	50301	135	50514	135
	3x4 4x3			57349	154	58840	158	59088	158
	4x5 5x4			57200	153	58687	157	58934	158
	5x6 6x5			54189	145	55598	149	55832	150
	6x7 7x6			49956	134	51255	137	51471	138
P92 (45°C/ 113°F max temp)	2x2	FCG	365	54225	149	55634	153	55869	153
	3x3			62692	172	64322	176	64593	177
	4x4			62286	171	63904	175	64174	176
	5x5			60956	167	62540	171	62804	172
	6x6			55464	152	56906	156	57146	157
	2x2	PG		52324	143	53684	147	53911	148
	3x3			60189	165	61754	169	62014	170
	4x4			59807	164	61362	168	61621	169
	5x5			56972	156	58453	160	58700	161
	6x6			52580	144	53947	148	54174	149
	2x3 3x2			50801	139	52122	143	52342	143
	3x4 4x3			59425	163	60969	167	61227	168
	4x5 5x4			59270	162	60810	167	61067	167
	5x6 6x5			56150	154	57610	158	57853	159
	6x7 7x6			51764	142	53109	146	53334	146

PERFORMANCE DATA

RPT	Distribution	Glass	Input Watts	3000K		4000K		5000K	
				Lumens	LPW	Lumens	LPW	Lumens	LPW
P93 (45°C/ 113°F max temp)	2x2	FCG	492	69990	142	71810	146	72113	146
	3x3			80920	164	83023	169	83374	169
	4x4			80395	163	82485	168	82833	168
	5x5			78679	160	80724	164	81065	165
	6x6			71590	145	73451	149	73761	150
	2x2	PG		67538	137	69293	141	69586	141
	3x3			77689	158	79709	162	80045	163
	4x4			77196	157	79202	161	79537	162
	5x5			73537	149	75448	153	75767	154
	6x6			67868	138	69632	141	69926	142
	2x3 3x2			65572	133	67276	137	67560	137
	3x4 4x3			76702	156	78696	160	79028	161
	4x5 5x4			76503	155	78491	159	78823	160
	5x6 6x5			72476	147	74360	151	74674	152
	6x7 7x6			66814	136	68551	139	68840	140
P94 (45°C/ 113°F max temp)	2x2	FCG	630	86708	138	88962	141	89337	142
	3x3			100248	159	102854	163	103288	164
	4x4			99598	158	102187	162	102618	163
	5x5			97471	155	100005	159	100427	159
	6x6			88690	141	90996	144	91380	145
	2x2	PG		83669	133	85844	136	86207	137
	3x3			96246	153	98748	157	99164	157
	4x4			95635	152	98120	156	98535	156
	5x5			91101	145	93469	148	93864	149
	6x6			84078	133	86264	137	86628	137
	2x3 3x2			81234	129	83345	132	83697	133
	3x4 4x3			95023	151	97493	155	97905	155
	4x5 5x4			94776	150	97239	154	97650	155
	5x6 6x5			89787	142	92121	146	92510	147
	6x7 7x6			82773	131	84925	135	85283	135
P95 (35°C/ 95°F max temp)	2x2	FCG	816	103292	127	105977	130	106425	130
	3x3			119422	146	122526	150	123044	151
	4x4			118648	145	121732	149	122246	150
	5x5			116115	142	119133	146	119636	147
	6x6			105654	130	108400	133	108858	133
	2x2	PG		99673	122	102263	125	102695	126
	3x3			114655	141	117635	144	118132	145
	4x4			113926	140	116888	143	117381	144
	5x5			108526	133	111347	137	111817	137
	6x6			100160	123	102763	126	103197	127
	2x3 3x2			96771	119	99287	122	99706	122
	3x4 4x3			113198	139	116140	142	116631	143
	4x5 5x4			112903	138	115838	142	116327	143
	5x6 6x5			106961	131	109741	135	110204	135
	6x7 7x6			98605	121	101168	124	101595	125

RPT

Raptor Precision Floodlight

ACCESSORIES



RPTYSF
Yoke Slipfitter



RPTWGG or RPTWGS
Wire Guard



RPTVG
Vandal Guard



RPTUBV
Upper/Bottom Visor



RPTLV4
External Louver 4 Row



RPTLV7
External Louver 7 Row