BurstScape Powercore, IntelliHue

Date:
Type:
Firm Name:
Project:

20° Spread Lens

In-grade spotlight with intelligent white and color light

BurstScape brings high-quality in-grade lighting to a wide range of landscape and architectural applications, from uplighting foliage and tree canopies to washing light on façades, pillars, and other elements. Thanks to its next-generation, rugged design, BurstScape performs flawlessly in the most demanding conditions for years with minimal maintenance. BurstScape, IntelliHue produces high-quality white, pastel, and saturated color light, all in the same luminaire.



- Rugged, round, and in the ground. A hermetically sealed, corrosion-resistant housing protects the optical system and keeps water and moisture out, while the stainless-steel trim ring looks great installed flush with the grade. It meets the rigorous IP67 standard for areas that have temporary flooding, and its innovative approach solves the challenge that plagues other in-ground luminaires—moisture ingress and condensation.
- Extreme durability. BurstScape can withstand walk-over and slow drive-over traffic (e.g., parking lots and driveways) of static 20 kN (4,496 lbf), dynamic 40 kN (8,992 lbf). BurstScape also complies with ASTM B117 corrosion resistance standard for > 1,500 hours, IK10 mechanical impact rating, and 6kV (maximum) surge protection.
- High performance. BurstScape's best-in-class optical system provides bright illumination as well as meticulous beam control. IntelliHue—our advanced approach to color mixing produces high-quality white light, subtle pastels, and fully saturated colors in the same precisely controllable luminaire. The result? Uniformity and color consistency enabling seamless integration with other luminaires.
- Simple installation. BurstScape simplifies and speeds installation with a special in-ground pour kit that enables a shallow mounting depth. Its corrosion-resistant housing and other smart design features make BurstScape a set-it-and-forget-it luminaire.
- Easy Adjustments. BurstScape enables single screw tilt aiming of the light beam (+15° to -3°) and easy rotation—as well as connection with power and data—without opening the factory sealed luminaire. The result? Flexibility and maintenance-free reliability.
- Even easier to use. BurstScape simplifies all aspects of operation, including commissioning, programming, and remote management. Easily networked and controlled, BurstScape is ready for even the most demanding synchronized color-changing effects.
- Chromasync Pro. Our advanced output optimization technology represents a major leap forward in color consistency and accuracy. But it also brings another much-needed benefit—simplicity.
- Integrated patented Powercore technology controls power output to luminaires directly from line voltage (100 to 277 VAC) rapidly, efficiently, and accurately. The Color Kinetics Data Enabler Pro merges line voltage with control data and delivers them to luminaires over a single standard cable, dramatically simplifying installation and lowering total system cost.
- Works seamlessly with the complete Color Kinetics line of controllers, including ColorDial Pro, iPlayer4, and iPlayer 3 – as well as third-party controllers.

For detailed product information, please refer to the BurstScape Product Guide at www.colorkinetics.com/global/products/intellihue/burstscape-intellihue.html

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Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Output

Beam Angle	20°
Lumens All Channels Full On †	1280
Efficacy (lm/W) All Channels Full On	37.9
CRI All Channels Full On	87.1
LED Channels	Red/Green/Blue/Mint White

Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Power Consumption (Maximum at full output, steady state)	33.8 W
Power Factor	> 0.9 @ 100 to 240 VAC > 0.85 @ 277 VAC
Surge Limits ¶	6 kV maximum differential (L to N) 6 kV maximum common (L to Gnd or N to Gnd)

For additional Surge Protection Requirements for LED Lighting Systems, please refer to www.colorkinetics.com/KB/surge-protection.

Control

Interface	Data Enabler Pro (DMX or Ethernet)
Control Resolution	8-bit (standard), 16-bit
Control Mode	4 channels per luminaire

Configure mode and resolution with QPP2. For additional control information, please refer to https://colorkinetics.helpdocs.io/article/fv5rkpvclq.

Control System

Color Kinetics full range of controllers, including Light System Manager, iPlayer 3, Antumbra iColor Keypad, and ColorDial Pro, or third-party controllers

Remote Monitoring & Management Works with Interact Landmark

Lumen Maintenance

Threshold§	Ambient Temperature	Reported ¶¶	Calculated ¶¶
L_{90}	25 °C	39,715	39,715
	40 °C	39,158	39,158
L_{80}	25 °C	>55,000	>98,607
	40 °C	>55,000	>98,607
L_{70}	25 °C	>55,000	>100,000
	40 °C	>55,000	>100,000
L_{50}	25 °C	-	>100,000
	40 °C	-	>100,000

Physical

Dimensions (Height x Width x Depth)	192 x 272.9 x 272.9 mm (7.56 x 10.74 x 10.74 in) Luminaire only.
Weight	6.3 kg (13.9 lb)
Housing Material	Black Anodized Die-Cast Aluminium with Stainless Steel Trim Ring and Tamper Resistant Screws
Lens	Clear tempered glass

Temperature Ranges

-40 to 40 °C (-40 to 104°F) Operating
-20 to 40 °C (-4 to 104 °F) Startup
-40 to 80 °C (-40 to 176 °F) Storage

Mechanical

Mechanical Impact	IK10

Corrosion Resistance

Complies with ASTM B117 standard for > 1,500 hours

Humidity	0 to 95%, non-condensing

Thermal Protection enabled

When operating between 40° - 60° C (104° - 140° F) ambient BurstScape may reduce its output automatically via Thermal Management preventing it from overheating. For additional information, please refer to https://colorkinetics.helpdocs.io/article/sh301ducix

Load Rating

Minimum static load of 20 kN (4496 lbf)
Minimum dynamic load of 40 kN (8992 lbf)

Certification and Safety

Approbation	UL/cUL, FCC Class A, CE, PSE, RCM
Environment	Dry/Damp/Wet Location, IP65/IP66/IP67

For additional Energy Efficiency Class Information, please refer to https://colorkinetics.helpdocs.io/article/cviis2p8qq.



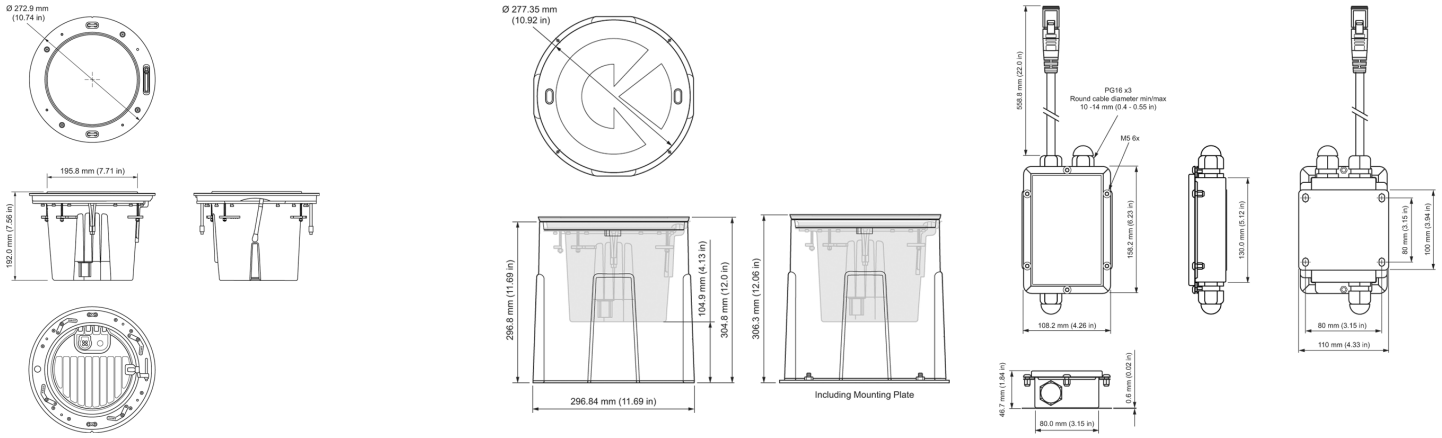
† Full-on lumen output measurements comply with IES LM-79-08 testing procedures.

§ L50 = 50% lumen maintenance (when light output drops below 50% of initial output). All values are given at B10, or the median value where 90% of the LED population is better than the reported or calculated lumen maintenance measurement.

¶ Minimum surge limits per IEC 61547, tested in accordance with IEC 61000-4-5.

¶¶ Lumen maintenance figures are based on lifetime prediction graphs supplied by LED source manufacturers. Whenever possible, figures use measurements that comply with IES LM-80-08 testing procedures. In accordance with TM-21-11, Reported values represent the interpolated value based on six times the LM-80-08 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.

Dimensions

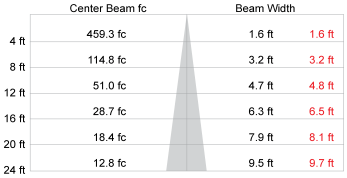


Photometrics 20° Spread Lens

Beam Angle	20°
LEDs	All channels full on
Lumens All Channels Full On	1,280.0
Efficacy (lm/W) All Channels Full On	37.9



Illuminance at Distance



26.2 m (86.0 ft)
1 fc maximum distance

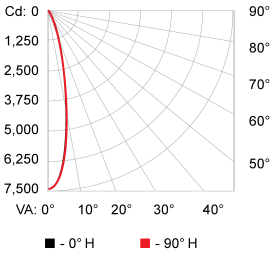
Vert. Spread: 22.3°
Horiz. Spread: 22.8°

Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1,334.3	94.4%
0-40	1,393.5	98.6%
0-60	1,413.3	100.0%
60-90	0.0	0.0%
70-100	0.0	0.0%
90-120	0.0	0.0%
0-90	1,413.3	100.0%
90-180	0.0	0.0%
0-180	1,413.3	100.0%

For lux multiply fc by 10.7

Polar Candela Distribution



	0	25	45	70	90
0	7349	7349	7349	7349	7349
5	6438	6424	6451	6500	6536
15	1913	1851	1884	2100	2219
25	360	341	362	417	419
35	80	72	83	94	86
45	21	20	20	20	19
55	5	4	4	4	4
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

Coefficents of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10			
RW %:	70	50	30	0	70	50	30	0	50	30	20		50	30	20		50	30	20	
RCR:																				
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11		1.06	1.06	1.06		1.02	1.02	1.02	1.00
1	1.15	1.13	1.11	1.09	1.13	1.11	1.09	0.97	1.07	1.06	1.04		1.03	1.02	1.01		1.00	0.99	0.98	0.97
2	1.11	1.08	1.05	1.03	1.09	1.06	1.04	0.94	1.03	1.01	0.99		1.00	0.99	0.97		0.98	0.96	0.95	0.94
3	1.08	1.03	1.00	0.97	1.06	1.02	0.99	0.91	1.00	0.97	0.95		0.97	0.95	0.93		0.95	0.94	0.92	0.91
4	1.05	1.00	0.96	0.93	1.03	0.98	0.95	0.89	0.96	0.94	0.91		0.95	0.92	0.90		0.93	0.91	0.89	0.88
5	1.02	0.96	0.92	0.89	1.00	0.95	0.91	0.86	0.94	0.90	0.88		0.92	0.89	0.87		0.91	0.88	0.87	0.85
6	0.99	0.93	0.89	0.86	0.98	0.92	0.88	0.84	0.91	0.88	0.85		0.90	0.87	0.85		0.88	0.86	0.84	0.83
7	0.96	0.90	0.86	0.83	0.95	0.89	0.86	0.82	0.88	0.85	0.82		0.87	0.84	0.82		0.86	0.84	0.82	0.81
8	0.94	0.87	0.83	0.81	0.93	0.87	0.83	0.79	0.86	0.83	0.80		0.85	0.82	0.80		0.84	0.82	0.80	0.79
9	0.91	0.85	0.81	0.78	0.91	0.85	0.81	0.77	0.84	0.80	0.78		0.83	0.80	0.78		0.82	0.80	0.78	0.77
10	0.89	0.83	0.79	0.76	0.88	0.82	0.79	0.76	0.82	0.78	0.76		0.81	0.78	0.76		0.80	0.78	0.76	0.75

Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
BurstScape Powercore, IntelliHue, 20° Spread Lens BurstScape consists of two parts, the Pour Sleeve & Temporary Cover and the Luminiare. Both are required for a complete BurstScape.	423-000032-02	912400137810
Associated Part		
BurstScape Powercore, Pour Sleeve & Temporary Cover	120-000217-00	912400137594
Accessories		
Junction Box for BurstScape, IP67, with attached 558.8 mm (22.0 in) leader cable, UL	120-000218-00	912400137595
Junction Box for BurstScape, IP67, with attached 558.8 mm (22.0 in) leader cable, CE	120-000218-01	912400137638
Junction Box for BurstScape, IP67, with attached 558.8 mm (22.0 in) leader cable, BIS	120-000218-02	912400137640
BurstScape Mounting Plate, Required to meet 40KN dynamic load	120-000219-00	912400137596
Power Supplies		
Data Enabler Pro, 3/4 in / 1/2 in NPT (U.S. trade size conduit)	106-000004-00	910503701210
Data Enabler Pro, PG21/PG13 (metric size conduit)	106-000004-01	910503701211

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