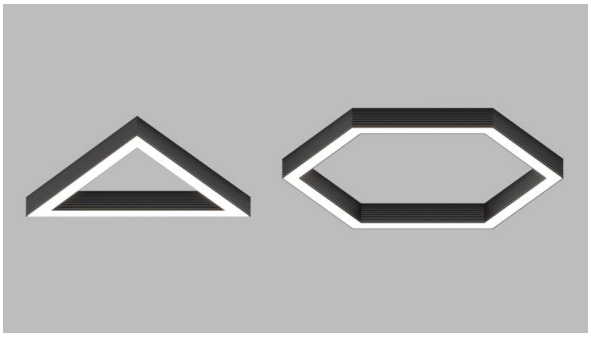
BELLOWS SHAPES

FULL SPECIFICATION SHEET



FIXTURE TYPE	FIXTURE CODE	QUANTITIES

1 DESCRIPTION

BELLOWS SHAPES takes the standard BELLOWS linear system, with its iconic sculptural pleated form, and closes the loop with the beautifully aesthetic form of triangles, and hexagons. These stunning fixtures introduce rhythm, depth, and character to the ceiling plane while proving to be ideal centerpieces for your space. Inspired by the ridged profile of fireplace bellows, this 2.5" aperture luminaire combines bold architectural presence with the reliable performance of a proven workhorse. The diffused lenses of the **BELLOWS HEXAGON** and **BELLOWS TRIANGLE** deliver smooth, uniform illumination, while Diffused, Batwing, and Extra-Wide Batwing distributions support a broad range of lighting applications. With multiple lumen packages, high-efficacy performance, BIOS integration for circadian support, and 13 distinctive finishes, **BELLOWS SHAPES** brings together technical precision and a refined, tactile design language in one expressive architectural luminaire.

2 OPTICS & FEATURES


Surface

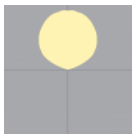

Suspended Direct


Suspended Direct/Indirect


RGBW


Direct DD3


Indirect UD1


Indirect UD2


Indirect UD4



Bios



Declare



PoE



Tunable White

3 APPROVALS



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IP20

4 GENERAL SPECIFICATION

BODY
Aluminum.

SUSPENSION
Steel cables.

DRIVERS
HPF electronic drivers for 120-277V, 347 (EU-240V). The driver is integral to the fixture housing.

BIOS
For circadian lighting, consult factory.

DELIVERED LUMENS
Delivered lumens & LPW based on 4000K CRI 80+

REPORTED L70 @25°C (77°F)
> 60,000 hrs @ 2000 lumens/ft (6000 lumens/m)

LENS
Opal acrylic lens.

APPROVALS
Damp Rated.

SEISMIC BRACING
Seismic bracing kits are available to meet compliance requirements. Consult the factory for details.

FINISH
Powder coated.

POWER CABLE
Silver braided.

POE
Can be integrated into your data network via Power over Ethernet (PoE) connectivity.

TUNABLE WHITE
Tunable White range from 2700K to 6500K is available.

MECHANICAL
Luminaires mount directly over J box (by others).

ESTIMATED L70 @25°C (77°F)
> 165,000 hrs @ 2000 lumens/ft (6000 lumens/m)

INTEGRAL EMERGENCY SYSTEM(E1)
Emergency option provides a 1.5 hour (3 hours for EU) emergency lighting facility. The self contained system includes the inverter module, NiCad batteries, LED charge indicator and test switch (NA only). Not available with a 347V supply. Refer to the Emergency option notes below for wattage, configuration and regional details.

DESIGN
US Design Patent Pending.

SUSTAINABILITY
Designed for on-site LED board, driver, and optic replacement. Contact the factory for maintenance documentation.

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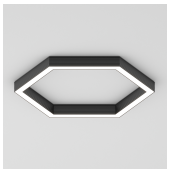
5 DESIGN OPTIONS

LUMINAIRE


Triangle Pendant


Triangle Surface


Hexagon Pendant


Hexagon Surface

FIXTURE FINISH

White - Textured


Black Metallic - Textured


Silver Metallic - Textured


Gold Metallic - Textured


Wood grain - Light Cherry [1]


Wood grain - Dark Walnut [1]


Wood grain - White Oak [1]


Midnight Blue Metallic - Textured


Copper Metallic


Charcoal Metallic - Textured


Bronze Metallic - Textured


Champagne Metallic


Red Metallic - Textured

[1] Wood grain finishes may incur longer lead times and setup charges. Consult factory for details.

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CANOPY FINISH

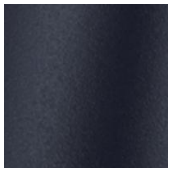

Not required

White - Textured


Black Metallic - Textured


Silver Metallic - Textured


Gold Metallic - Textured


Midnight Blue Metallic - Textured


Copper Metallic


Charcoal Metallic - Textured


Bronze Metallic - Textured


Champagne Metallic


Red Metallic - Textured

6 HOW TO ORDER

LUMINAIRE TYPE

BLTP Triangle Pendant
BLTC Triangle Surface
BLHP Hexagon Pendant
BLHC Hexagon Surface

DIRECTION

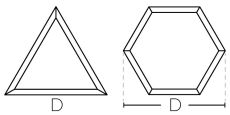
DT1 Direct
DT2 Direct/Indirect

One power cord for every 50 linear ft.

DIMENSION

SL02 2ft [1]
SL03 3ft [1]
SL04 4ft
SL05 5ft
SL06 6ft
SL07 7ft [2]

[1]Only available with Bellows Triangle. [2] Only available with Bellows Hexagon.



LM/FT (DIRECT)

LPF020 200 lm/ft
LPF040 400 lm/ft
LPF060 600 lm/ft
LPF080 800 lm/ft
LPF100 1000 lm/ft
LPF120 1200 lm/ft
LPF140 1400 lm/ft

LM/FT (INDIRECT)

LPG000 Not required
LPG020 200 lm/ft
LPG040 400 lm/ft
LPG060 600 lm/ft
LPG080 800 lm/ft
LPG100 1000 lm/ft
LPG120 1200 lm/ft
LPG140 1400 lm/ft [1]
LPG165 1650 lm/ft [1]

[1] Available with UD1 (clear diffuser) only.

CRI

CR80 CRI 80+
CR90 CRI 90+

CCT DIRECT

CTA27 2700K
CTA30 3000K
CTA35 3500K
CTA40 4000K
CTA50 RGBW [1]
CTA60 Tunable White

[1] RGBW is supplied with an extra power cable and is available with DMX dimming only.
Not available with V3.
* If RGBW or Tunable White is required, it needs to be selected for both direct and indirect. For other combinations, consult factory.

CCT INDIRECT

CTB00 Not required
CTB27 2700K
CTB30 3000K
CTB35 3500K
CTB40 4000K
CTB50 RGBW [1]
CTB60 Tunable White

[1] RGBW is supplied with an extra power cable and is available with DMX dimming only.
Not available with V3.
* If RGBW or Tuanble White is required, it needs to be selected for both direct and indirect. For other combinations, consult factory.

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DIRECT LENS

DD3 Diffused

INDIRECT LENS

UD0 Not required
UD1 Batwing
UD2 Diffused
UD4 Extra Wide Batwing [1]

[1] Available up to 1400 lm/ft.

VOLTAGE

V1 120/277V
V2 240V [1]
V3 347V [2]
V4 Low Voltage [3]

[1] Not available in North America. [2] Only available with DA01 dimming. [3] Only available with DA45 dimming.

DIMMING

DA01 0-10V Dimming 1.0%
DA02 0-10V Dimming 0.1% [1]
DA20 DALI Dimming 0.1% [1]
DA21 DALI Dimming 1.0% [1]
DA23 DALI DT8 Dimming 0.1% - Tunable White [1] [2]
DA40 DMX Dimming [3]
DA45 PoE [4]

[1] Not available with V3.
[2] Only available with Tunable White.
[3] Only available with RGBW.
[4] Only available with V4.
[5] Select this option if sensors or controllers are required.

SUSPENSION

HLA00 Not required
HLA03 3ft cable suspension
HLA06 6ft cable suspension
HLA09 9ft cable suspension

* Note: Special order available on lengths over 13ft and may be subject to longer lead times, consult factory.

FIXTURE FINISH

FA01 White - Textured
FA02 Black Metallic - Textured
FA20 Silver Metallic - Textured
FA25 Gold Metallic - Textured
FA27 Wood grain - Light Cherry [1]
FA28 Wood grain - Dark Walnut [1]
FA30 Wood grain - White Oak [1]
FA44 Midnight Blue Metallic - Textured
FA45 Copper Metallic
FA46 Charcoal Metallic - Textured
FA47 Bronze Metallic - Textured
FA52 Champagne Metallic
FA53 Red Metallic - Textured

[1] Wood grain finishes may incur longer lead times and setup charges. Consult factory for details.

CANOPY FINISH

CF00 Not required
CF01 White - Textured
CF02 Black Metallic - Textured
CF20 Silver Metallic - Textured
CF25 Gold Metallic - Textured
CF44 Midnight Blue Metallic - Textured
CF45 Copper Metallic
CF46 Charcoal Metallic - Textured
CF47 Bronze Metallic - Textured
CF52 Champagne Metallic
CF53 Red Metallic - Textured

QUANTITY OF EMERGENCY SECTIONS

E0 Not required
E1 Emergency system - Integral [1]
E3 Emergency generator circuit - Remote [1]

[1] For North America, the minimum emergency system wattage is 10W. Refer to the fixture's lumens per watt to estimate emergency light output. The emergency system typically powers only a portion of the fixture, depending on the fixture configuration and number of drivers. Consult factory for emergency system configuration and illuminated section details.
For Europe, the emergency system wattage and configuration may vary. Consult factory for details.

Note: A drawing will be required at the time of ordering to determine the required location of the emergency sections or generator circuits.

CIRCUITS

CS1 Single circuit
CS2 Dual circuit [1]

7 PERFORMANCE DATA

2FT-TRIANGLE DIRECT	Lumens	Watts	LPW	3FT-TRIANGLE DIRECT	Lumens	Watts	LPW
LPF020	980	7	143	LPF020	1640	11	143
LPF040	1970	14	141	LPF040	3270	23	141
LPF060	2950	22	136	LPF060	4910	35	136
LPF080	3930	30	132	LPF080	6540	49	132
LPF100	4910	38	131	LPF100	8180	63	131
LPF120	5900	47	126	LPF120	9810	78	126
LPF140	6880	57	122	LPF140	11450	93	122

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4FT-TRIANGLE DIRECT	Lumens	Watts	LPW
LPF020	2290	16	143
LPF040	4580	33	141
LPF060	6860	50	136
LPF080	9150	69	132
LPF100	11440	88	131
LPF120	13730	109	126
LPF140	16010	131	122

5FT-TRIANGLE DIRECT	Lumens	Watts	LPW
LPF020	2940	21	143
LPF040	5880	42	141
LPF060	8820	65	136
LPF080	11760	89	132
LPF100	14700	113	131
LPF120	17640	140	126
LPF140	20580	169	122

6FT-TRIANGLE DIRECT	Lumens	Watts	LPW
LPF020	3590	25	143
LPF040	7180	51	141
LPF060	10780	79	136
LPF080	14370	109	132
LPF100	17960	138	131
LPF120	21550	171	126
LPF140	25150	206	122

4FT-HEXAGON DIRECT	Lumens	Watts	LPW
LPF020	2610	18	143
LPF040	5220	37	141
LPF060	7830	57	136
LPF080	10440	79	132
LPF100	13050	100	131
LPF120	15660	124	126
LPF140	18270	150	122

5FT-HEXAGON DIRECT	Lumens	Watts	LPW
LPF020	3260	23	143
LPF040	6520	46	141
LPF060	9790	72	136
LPF080	13050	99	132
LPF100	16310	125	131
LPF120	19570	155	126
LPF140	22830	187	122

6FT-HEXAGON DIRECT	Lumens	Watts	LPW
LPF020	3910	27	143
LPF040	7830	56	141
LPF060	11740	86	136
LPF080	15660	118	132
LPF100	19570	150	131
LPF120	23480	187	126
LPF140	27400	225	122

7FT-HEXAGON DIRECT	Lumens	Watts	LPW
LPF020	4570	27	143
LPF040	9130	56	141
LPF060	13700	86	136
LPF080	18260	118	132
LPF100	22830	150	131
LPF120	27400	187	126
LPF140	31960	225	122

2FT-TRIANGLE INDIRECT-UD1	Lumens	Watts	LPW
LPG020	590	4	153
LPG040	1200	8	153
LPG060	1800	12	150
LPG080	2410	16	147
LPG100	2990	21	144
LPG120	3540	25	140
LPG140	4190	31	137
LPG165	4950	37	132

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3FT-TRIANGLE INDIRECT-UD1	Lumens	Watts	LPW
LPG020	1190	8	153
LPG040	2390	16	153
LPG060	3600	24	150
LPG080	4830	33	146
LPG100	5970	41	144
LPG120	7080	51	140
LPG140	8390	61	137
LPG165	9900	75	132

4FT-TRIANGLE INDIRECT-UD1	Lumens	Watts	LPW
LPG020	1780	12	153
LPG040	3590	24	153
LPG060	5400	36	150
LPG080	7240	49	146
LPG100	8950	62	144
LPG120	10620	76	140
LPG140	12580	92	137
LPG165	14850	112	132

5FT-TRIANGLE INDIRECT-UD1	Lumens	Watts	LPW
LPG020	2380	16	153
LPG040	4790	31	153
LPG060	7190	48	150
LPG080	9660	66	146
LPG100	11940	83	144
LPG120	14160	101	140
LPG140	16780	122	137
LPG165	19800	150	132

6FT-TRIANGLE INDIRECT-UD1	Lumens	Watts	LPW
LPG020	2980	20	153
LPG040	5980	39	143
LPG060	8990	60	150
LPG080	12070	82	146
LPG100	14920	104	144
LPG120	17710	126	140
LPG140	20970	153	137
LPG165	24750	187	132

2FT-TRIANGLE INDIRECT-UD2	Lumens	Watts	LPW
LPG020	590	4	150
LPG040	1150	8	147
LPG060	1720	12	144
LPG080	2320	16	141
LPG100	2870	21	139
LPG120	3410	25	135
LPG140	4040	31	132
LPG165	4780	37	128

3FT-TRIANGLE INDIRECT-UD2	Lumens	Watts	LPW
LPG020	1180	8	150
LPG040	2290	16	147
LPG060	3440	24	144
LPG080	4640	33	141
LPG100	5730	41	139
LPG120	6810	50	135
LPG140	8070	61	132
LPG165	9550	75	128

4FT-TRIANGLE INDIRECT-UD2	Lumens	Watts	LPW
LPG020	1770	12	150
LPG040	3440	24	147
LPG060	5160	36	144
LPG080	6970	49	141
LPG100	8600	62	139
LPG120	10220	76	135
LPG140	12110	92	132
LPG165	14330	112	128

5FT-TRIANGLE INDIRECT-UD2	Lumens	Watts	LPW
LPG020	2370	16	150
LPG040	4590	31	147
LPG060	6880	48	144
LPG080	9290	66	141
LPG100	11470	82	139
LPG120	13620	101	135
LPG140	16150	122	132
LPG165	19110	150	128

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6FT-TRIANGLE INDIRECT-UD2	Lumens	Watts	LPW
LPG020	2960	20	150
LPG040	5730	39	147
LPG060	8600	60	144
LPG080	11610	82	141
LPG100	14330	103	139
LPG120	17030	126	135
LPG140	20180	153	132
LPG165	23880	187	128

2FT-TRIANGLE INDIRECT-UD4	Lumens	Watts	LPW
LPG020	590	4	131
LPG040	1210	9	129
LPG060	1800	14	127
LPG080	2530	21	123
LPG100	3010	25	119
LPG120	3560	31	116
LPG140	4220	37	113

3FT-TRIANGLE INDIRECT-UD4	Lumens	Watts	LPW
LPG020	1180	9	131
LPG040	2410	19	129
LPG060	3600	28	127
LPG080	5060	41	123
LPG100	6010	50	119
LPG120	7120	61	116
LPG140	8430	75	113

4FT-TRIANGLE INDIRECT-UD4	Lumens	Watts	LPW
LPG020	1770	13	131
LPG040	3620	28	129
LPG060	5400	43	127
LPG080	7590	62	123
LPG100	9020	76	119
LPG120	10690	92	116
LPG140	12640	112	113

5FT-TRIANGLE INDIRECT-UD4	Lumens	Watts	LPW
LPG020	2360	18	131
LPG040	4820	37	129
LPG060	7200	57	127
LPG080	10120	82	123
LPG100	12020	101	119
LPG120	14250	122	116
LPG140	16860	150	113

6FT-TRIANGLE INDIRECT-UD4	Lumens	Watts	LPW
LPG020	2950	22	131
LPG040	6030	47	129
LPG060	9000	71	127
LPG080	12640	103	123
LPG100	15030	126	119
LPG120	17810	153	116
LPG140	21080	187	113

4FT-HEXAGON INDIRECT-UD1	Lumens	Watts	LPW
LPG020	1790	12	153
LPG040	3590	23	153
LPG060	5400	36	150
LPG080	7240	49	146
LPG100	8950	62	144
LPG120	10620	76	140
LPG140	12580	92	137
LPG165	14850	112	132

5FT-HEXAGON INDIRECT-UD1	Lumens	Watts	LPW
LPG020	2380	16	153
LPG040	4790	31	153
LPG060	7190	48	150
LPG080	9650	66	146
LPG100	11940	83	144
LPG120	14170	101	140
LPG140	16780	122	137
LPG165	19800	150	132

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6FT-HEXAGON INDIRECT-UD1	Lumens	Watts	LPW
LPG020	2980	19	153
LPG040	5980	39	153
LPG060	8990	60	150
LPG080	12070	83	146
LPG100	14920	104	144
LPG120	17710	126	140
LPG140	20970	153	137
LPG165	24750	187	132

7FT-HEXAGON INDIRECT-UD1	Lumens	Watts	LPW
LPG020	3570	24	153
LPG040	7180	47	153
LPG060	10790	72	150
LPG080	14480	99	146
LPG100	17910	124	144
LPG120	21250	152	140
LPG140	25170	183	137
LPG165	29710	225	132

4FT-HEXAGON INDIRECT-UD2	Lumens	Watts	LPW
LPG020	1770	12	150
LPG040	3440	24	147
LPG060	5160	36	144
LPG080	6970	49	141
LPG100	8600	62	139
LPG120	10220	76	135
LPG140	12110	92	132
LPG165	14330	112	128

5FT-HEXAGON INDIRECT-UD2	Lumens	Watts	LPW
LPG020	2370	16	150
LPG040	4590	31	147
LPG060	6880	48	144
LPG080	9290	66	141
LPG100	11470	82	139
LPG120	13620	101	135
LPG140	16150	122	132
LPG165	19110	150	128

6FT-HEXAGON INDIRECT-UD2	Lumens	Watts	LPW
LPG020	2960	20	150
LPG040	5730	39	147
LPG060	8600	60	144
LPG080	11610	82	141
LPG100	14330	103	139
LPG120	17030	126	135
LPG140	20180	153	132
LPG165	23880	187	128

7FT-HEXAGON INDIRECT-UD2	Lumens	Watts	LPW
LPG020	3550	24	150
LPG040	6880	47	147
LPG060	10320	72	144
LPG080	13930	99	141
LPG100	17200	123	139
LPG120	20430	151	135
LPG140	24220	183	132
LPG165	28660	225	128

4FT-HEXAGON INDIRECT-UD4	Lumens	Watts	LPW
LPG020	1770	13	131
LPG040	3620	28	129
LPG060	5400	43	127
LPG080	7590	62	123
LPG100	9020	76	119
LPG120	10690	92	116
LPG140	12640	112	113

5FT-HEXAGON INDIRECT-UD4	Lumens	Watts	LPW
LPG020	2360	18	131
LPG040	4820	37	129
LPG060	7200	57	127
LPG080	10120	82	123
LPG100	12020	101	119
LPG120	14250	122	116
LPG140	16860	150	113

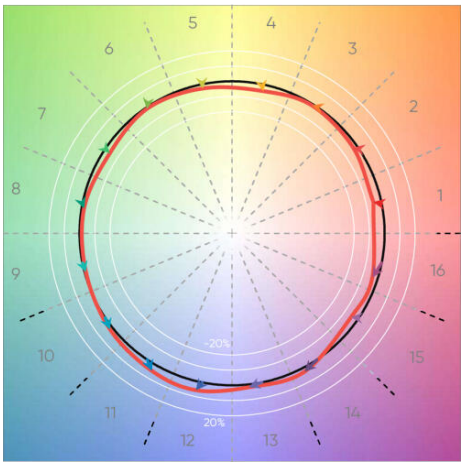
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6FT-HEXAGON INDIRECT-UD4	Lumens	Watts	LPW
LPG020	2950	22	131
LPG040	6030	47	129
LPG060	9000	71	127
LPG080	12650	103	123
LPG100	15030	126	119
LPG120	17810	153	116
LPG140	21080	187	113

7FT-HEXAGON INDIRECT-UD4	Lumens	Watts	LPW
LPG020	3540	27	131
LPG040	7230	56	129
LPG060	10800	85	127
LPG080	15180	124	123
LPG100	18030	151	119
LPG120	21370	183	116
LPG140	25290	225	113

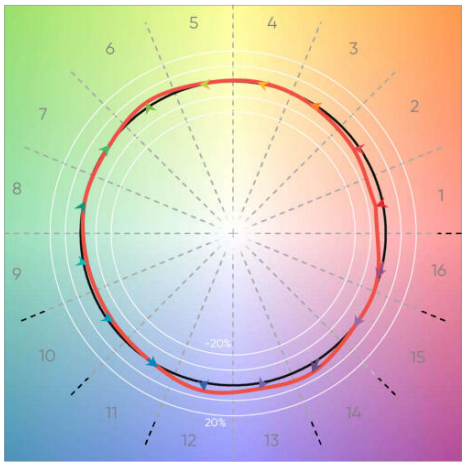
8 TM-30 DATA

CCT 2700K



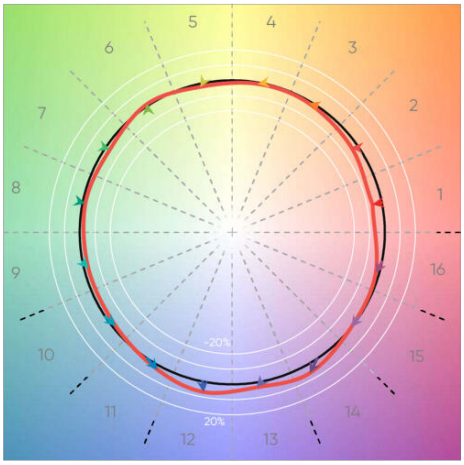
CRI (Ra)	93
CRI (R9)	61
TM30 Rf	91
TM30 Rg	98
Duv	-0.0022

CCT 3000K



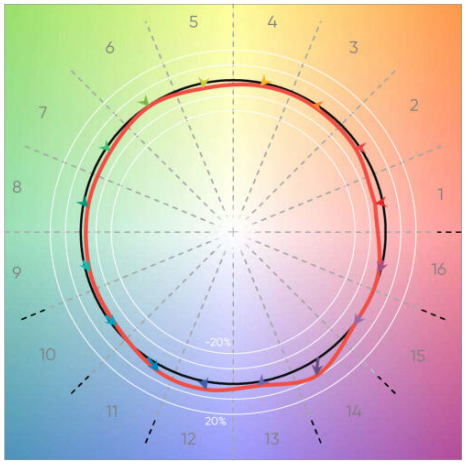
CRI (Ra)	92
CRI (R9)	58
TM30 Rf	92
TM30 Rg	100
Duv	-0.0003

CCT 3500K



CRI (Ra)	91
CRI (R9)	53
TM30 Rf	90
TM30 Rg	99
Duv	-0.0007

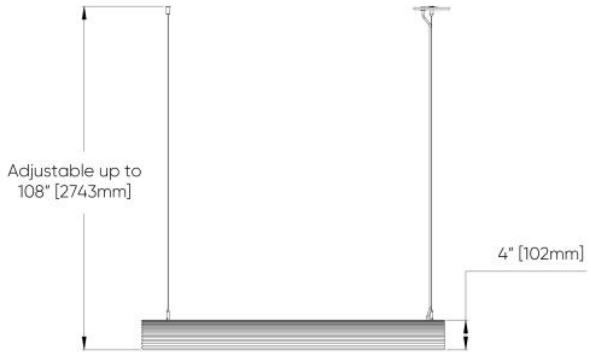
CCT 4000K

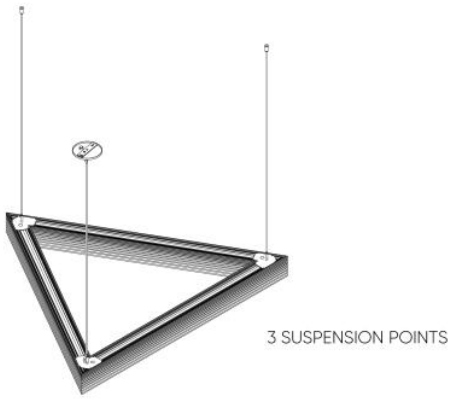


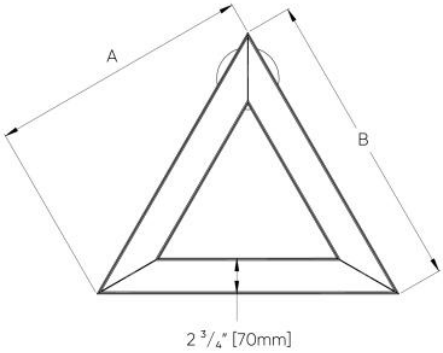
CRI (Ra)	93
CRI (R9)	64
TM30 Rf	90
TM30 Rg	98
Duv	0.0000

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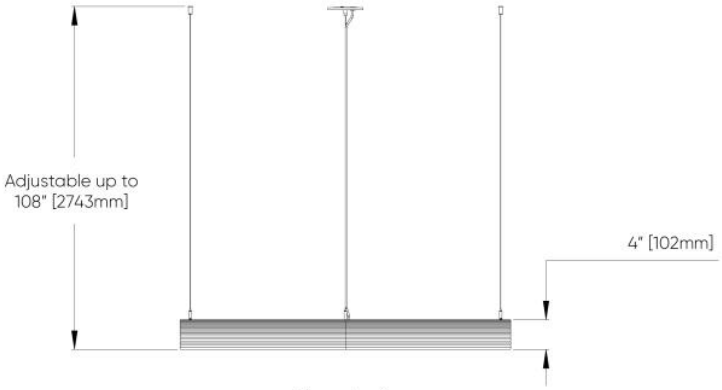
9 DIMENSIONAL DIAGRAMS

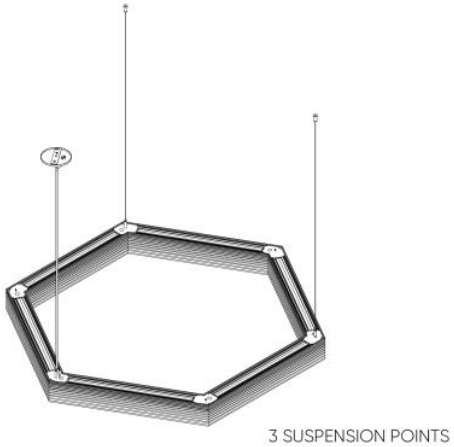


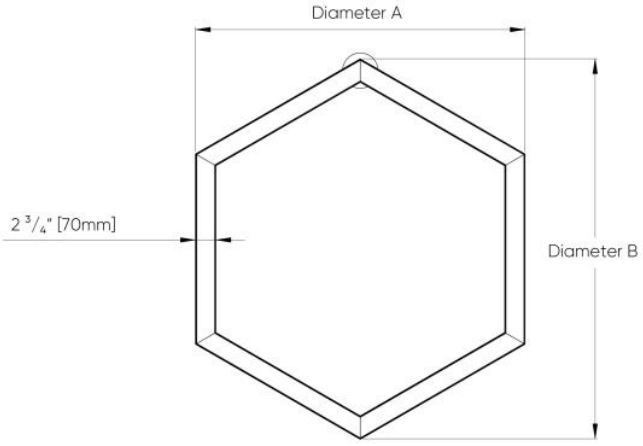




SIZE	DIMENSION A	DIMENSION B
2FT	20 1/8" [511mm]	23 1/4" [591mm]
3FT	29 7/8" [759mm]	34 1/2" [876mm]
4FT	40 3/4" [1035mm]	47" [1194mm]
5FT	51 1/8" [1299mm]	59" [1499mm]
6FT	61" [1549mm]	70 1/2" [1791mm]







SIZE	DIAMETER A	DIAMETER B
4FT	44 1/2" [1130mm]	51 1/4" [1302mm]
5FT	53 3/8" [1356mm]	64" [1626mm]
6FT	65 1/2" [1664mm]	75 5/8" [1921mm]
7FT	75 3/4" [1924mm]	87 1/2" [2223mm]

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