busSTRUT READY

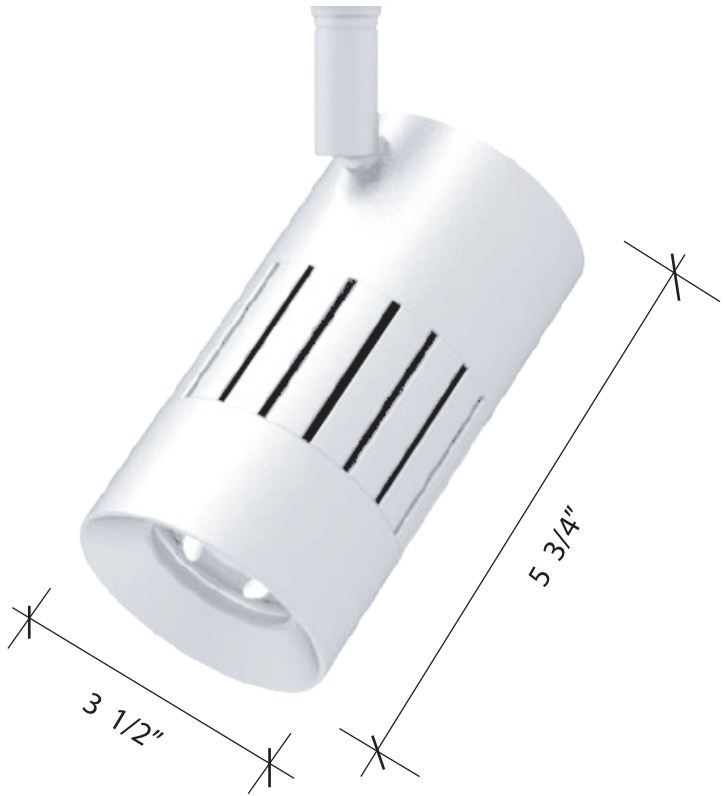
busSTRUT specification sheet

High Output
ARCHITECTURAL CYLINDER

Voltage	Type	CRI	Delivered Lumens	Watts	lm/w	Kelvin	Beam Angle	(F) Finish	(O) Options	Catalog Number
120V	LED	90+	1200	14	86	3,000 K	24º	B=Black	SP=Spread Lens	BRISS-10L-30K-24-B-(O)

Description:

-Prewired with busSTRUT Ready adapter
-Forged aluminum heatsink housing provides light weight, durability, clean lines and optimal thermal dissipation.
-Pivot mount allow rotations up to 350º horizontally and 0-90 vertically for maximum aiming adjustability.
-Spring latch secures light fixture



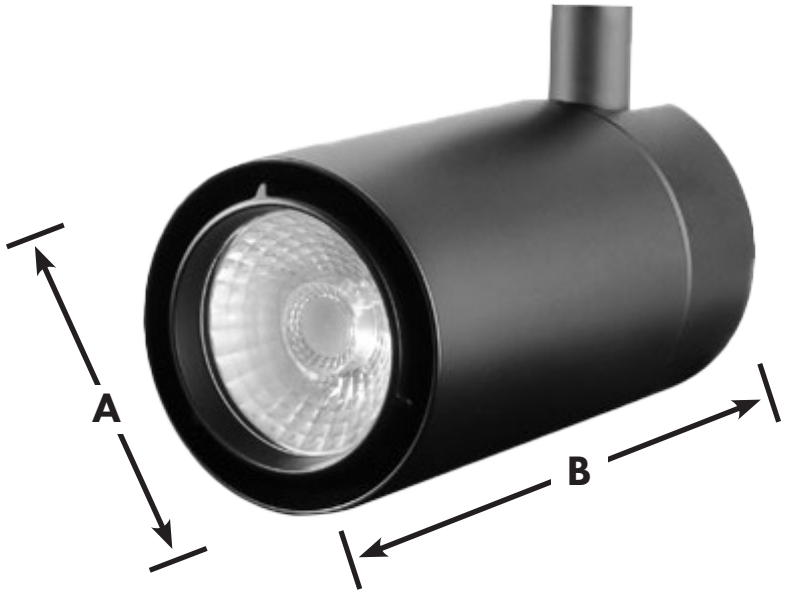
busSTRUT
tel. 614 933 8695 www.busstrut.com

Integral LED – Architectural Cylinder

ACCENT

FEATURES

- Prewired with busSTRUT Ready adapter
- Forged aluminum heatsink housing provides light weight, durability, clean lines and optimal thermal dissipation
- Pivot mount allow rotations up to 350° horizontally and 0-90 vertically for maximum aiming adjustability
- Spring latch secures light fixture



A	2-3/4"
B	4-13/16"

busSTRUT	VOLTAGE	TYPE	CRI	DELIVERED LUMENS	WATTS	LM/W	KELVIN	BEAM ANGLE	FINISH = (F)	CATALOG NUMBER
BR	120 V	LED	90+	860	10	86	3,000K	60°	Black (B)	BRISX-10L-30K-60-B

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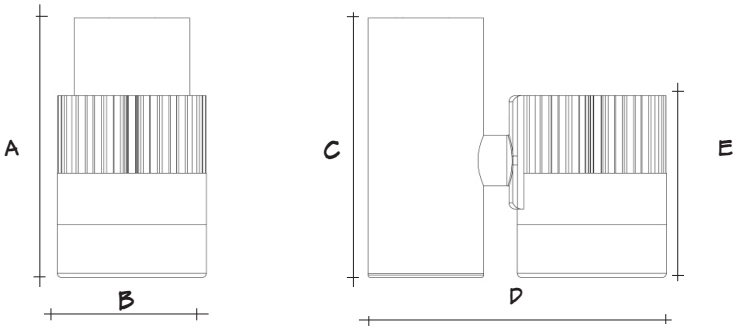
ACCENTLIGHT

busSTRUT READY 90+ yOke-ARRAY™ LED

YAM-L4-G2 yOke-ARRAY™ LED CYLINDER

busSTRUT	Lamp	Life (HRS)	Type	CRI	Fixture lm	Watts	lm/w	Beam	CBCP	Kelvin	(F) Finish	Catalog Number
BR	LED	50,000	Accent	92	2189	29	75	24°	6460	3000	SV = Silver B = Black W = White	BR-YAM-L4-G2-309-U-NFL24-(F)
					2244		77	32°	5350			BR-YAM-L4-G2-309-U-FL32-(F)
					2306		80	50°	3178			BR-YAM-L4-G2-309-U-WFL50-(F)

(29W) 24°/32°/50° ACCENTLIGHT



A	B	C	D	E
4 7/8"	2 1/8"	6 1/4"	5 5/8"	3 7/16"

LED Light Engine:
-3000k 92 CRI
-3 Step MacAdam (3 SDMC)
-LED mounted to die-cast/extruded aluminum heat sink
-50,000 hours average rated life at 70% output

Electrical System:
-max. 277V 60Hz input
-Class 2 power supply
-Over voltage, over current and shot circuit protection: Auto recovery
-MTBF > 100,000 hours
-Complies with IEEE C62.41 for surge endurance up to 2.5KV

Dimming:
-Must specify -DIM for ELV Dimming
-Dimmable 100 - 10%

Listing:
-ETL Listed to US and Canadian standards for dry locations

Optics:
-24° Narrow Flood
-32° Flood
-50° Wide Flood

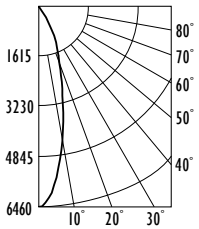
Control Media:
-Will accommodate a maximum of (2) filter media
-No accessory holder required

OPTION CODES (OC):

Diffusion Filters	Color Filters	Louver
PFL-CL1-S Prismatic Spread Lens	PL-CL5-S Amber Lens	PFLMB Black Hex Louver
PFL-CL2-S Linear Spread Lens	PL-CL6-S Red Lens	
PFL-CL4-S Beam Softener Lens	PL-CL9-S Blue Lens	

CANDLEPOWER:

24° Narrow Flood

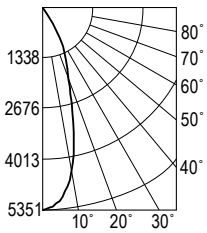


Watts: 29
Lumens : 2189
LPW: 88
CCT: 3000K

Candelas at Nadir

Degree	Candela
0°	6460
5°	5774
15°	2983.5
25°	1379.
35°	239.7
45°	26.4

32° Flood (32)

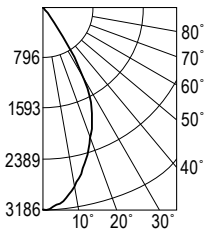


Watts: 29
Lumens: 2244
LPW: 90
CCT: 3000K

Candelas at Nadir

Degree	Candela
0°	5350.8
5°	5143.4
15°	3145
25°	1427.6
35°	289
45°	28.9

50° Wide Flood (50)



Watts: 29
Lumens: 2306
LPW: 93
CCT: 3000K

Candelas at Nadir

Degree	Candela
0°	3178.2
5°	3096.6
15°	2536.4
25°	1857.3
35°	553.4
45°	73.1

APPLICATION DATA:

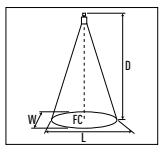
W and L are at 50% Candlepower
FC is initially at the center of the beam

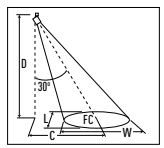
APPLICATION DATA:

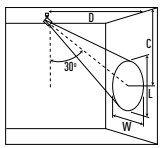
W and **L** are the outer points where the candle power drops to 50% of maximum. **FC** are the initial foot candles at the center of the beam.

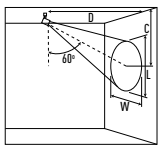
W Beam width
L Beam length
C Distance to center of beam
D Distance
FC Foot candles

Illuminated width & length are based upon point at which illuminance falls to 50% of center illuminance. Recommended spacing is based upon uniform illuminance aiming angle is the angle between the lamp axis and the perpendicular to the illuminated plane.









	0° HORIZONTAL				30° HORIZONTAL					30° VERTICAL					60° VERTICAL				
	D	FC	W	L	D	C	FC	W	L	D	C	FC	W	L	D	C	FC	W	L
24° Narrow Flood	6'	179.4	3'	3'	6'	3'	121.6	3' 8"	3' 4"	3'	4'	168.3	2' 9"	4' 6"	3'	2'	259.3	1' 8"	1' 10"
	8'	101.2	4'	4'	8'	4'	68.3	4' 10"	4' 4"	4'	6'	96.9	3' 6"	5' 11"	4'	2'	136.9	2' 5"	2' 8"
	10'	64.6	5'	5'	10'	5'	43.8	6'	5' 4"	5'	7'	62.1	4' 4"	7' 4"	5'	3'	97.8	2' 10"	3' 1"
	12'	44.9	6'	6'	12'	6'	30.3	7' 3"	6' 5"	6'	9'	43.2	5' 3"	8' 9"	6'	4'	64.9	3' 6"	3' 9"
32° Flood	6'	148.8	3' 7"	3' 7"	6'	3'	103.7	4' 2"	3' 9"	3'	4'	157.3	3'	4' 8"	3'	2'	221.9	2'	2' 4"
	8'	763.6	4' 10"	4' 10"	8'	4'	58.5	5' 7"	5' 1"	4'	5'	89.3	3' 9"	6' 1"	4'	3'	117.3	2' 11"	3' 1"
	10'	53.6	6'	6'	10'	4'	37.9	6' 11"	6' 2"	5'	6'	56	4' 11"	7' 8"	5'	3'	80.5	3' 4"	3' 8"
	12'	37.2	7' 4"	7' 4"	12'	5'	26.4	8' 2"	7' 5"	6'	8'	39.2	5' 10"	9' 2"	6'	4'	55.5	4'	4' 5"
50° Wide Flood	6'	88.4	6' 4"	6' 4"	6'	2'	65.6	5' 6"	5' 5"	3'	3'	99.5	4' 1"	5' 3"	3'	2'	133.5	3'	3' 2"
	8'	49.6	8' 5"	8' 5"	8'	3'	37.1	7' 2"	7' 3"	4'	4'	56	5' 5"	6' 10"	4'	3'	72.5	4' 2"	4' 3"
	10'	31.8	10' 6"	10' 6"	10'	4'	23.6	8' 11"	9' 1"	5'	6'	36.2	6' 9"	8' 7"	5'	3'	48.12	5' 1"	5' 2"
	12'	22.1	12' 7"	12' 7"	12'	4'	16.4	10' 9"	10' 11"	6'	7'	25.2	8' 1"	10' 2"	6'	4'	33.2	6' 1"	6' 3"

busSTRUT
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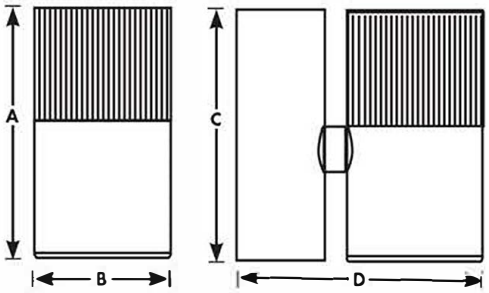
THE "LUCY"



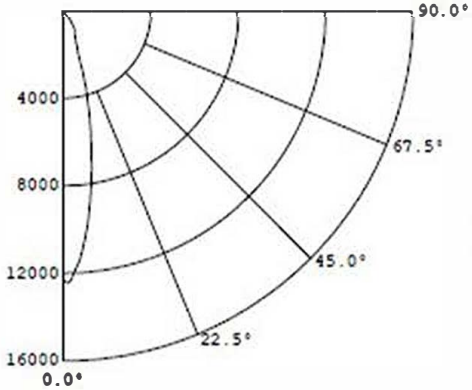
A	4-5/8"
B	2-7/8"
C	4-5/8"
D	5-5/8"

FEATURES

- Beautifully constructed with high quality architectural grade die-cast aluminum
- Precision optics are uniquely constructed to intentionally regress the position of the LED array for glare control.
- Multiple accessories are also available for further glare control.
- Delivering exceptional color rendering by providing 90+ CRI and R9≥70

busSTRUT	VOLTAGE	TECH	KELVIN TEMP (CCT)	Color Rendering Index (CRI)	DELIVERED LUMENS	WATTS	LM/W	BEAM ANGLE	FINISH (F)	OPTION CODES (OC)	CATALOG NUMBER
20A	120/277V	LED	3500K	90+	3050	30	101	24	GR=GREY BL=BLACK WH=WHITE	SN=Snoot HL=Honeycomb Louver	BR-LUCY-U-359-30-U-(F)-(OC)

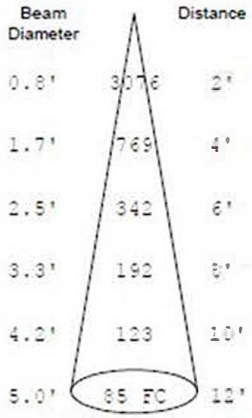
Candela Distribution



Vertical Angle	Horizontal Angle 0°	Zonal Lumens
0°	12305	
5°	10658	836.8
15°	4267	1133.7
25°	1250	592.3
35°	498	312.5
45°	102	72.1
55°	12	15.2
65°	4	3.7
75°	3	3.1
85°	1	1.1
90°	0	

Luminance Data in Candela / Sq. Meter

Angle in Vertical°	Average 0°	Average 45°	Average 90°
45°	10660	8490	10660
55°	1256	975	1256
65°	380	288	380
75°	341	252	341
85°	114	82	114



Beam center footcandles shown in "cone of light" are initial, LLF = 1.0

Coefficients of Utilization

Effective Floor Cavity Reflectance = 20%

pcc	0.8				0.7				0.5			0.3		
pw	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1
0	125	125	125	125	123	123	123	123	117	117	117	112	112	112
1	121	118	116	114	118	116	114	113	112	111	109	108	107	106
2	116	112	109	106	114	111	107	105	107	105	103	104	102	100
3	112	107	103	99	110	105	102	99	103	100	97	100	98	96
4	108	102	98	94	107	101	97	93	99	95	92	97	94	91
5	105	98	93	89	103	97	92	89	95	91	88	93	90	88
6	101	94	89	85	100	93	89	85	92	88	85	90	87	84
7	98	90	85	82	97	90	85	82	88	84	81	87	84	81
8	95	87	82	79	94	86	82	79	85	81	78	85	81	78
9	92	84	79	76	91	84	79	76	83	79	76	82	78	76

OPTIONS TO FURTHER REDUCE GLARE:

SNOOT
(FINISH TO MATCH)

HONEYCOMB LOUVER

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busSTRUT

THE "SPUD"

Glare control visor (optional)

POTATO FRIENDLY FEATURES

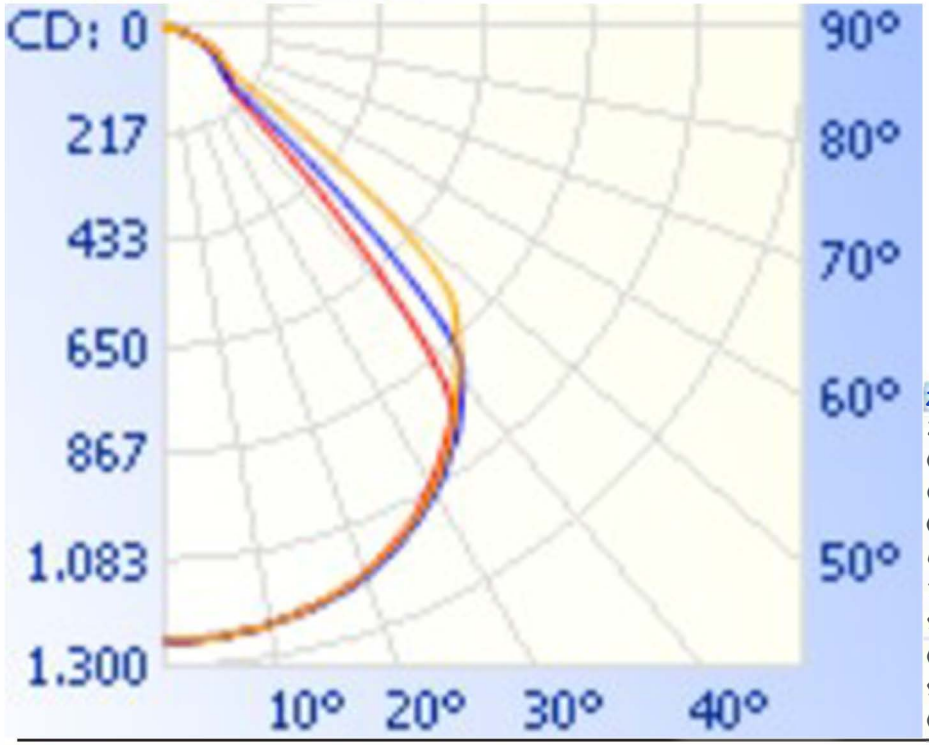
Low lumens & R9 at 4000K make this an ideal light for potatoes

While small in size, this fixture includes wide spread optics to ensure soft even illuminance on potatoes

Pivot mounts allow rotations up to 350° horizontally and 0-90° vertically for maximum aiming adjustability

busSTRUT	VOLTAGE	TECH	KELVIN TEMP (CCT)	Color Rendering Index (CRI)	DELIVERED LUMENS	WATTS	LM/W	R9 Value	FINISH (F)	OPTION CODES (OC)	CATALOG NUMBER
20A	120/277V	LED	4000K	70	1385	15	92	R9<50	GR=GREY BL=BLACK WH=WHITE	VS=Visor	BR-SPUD-U-407-16-U-(F)-(OC)

Candela Distribution



Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC%:	80				70				50			30			10			0
RW%:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.98
1	1.11	1.07	1.04	1.01	1.08	1.05	1.02	.88	1.01	.98	.96	.96	.95	.93	.93	.91	.90	.88
2	1.03	.97	.91	.87	1.01	.95	.90	.78	.91	.87	.83	.88	.84	.81	.85	.82	.79	.77
3	.96	.87	.81	.75	.93	.86	.80	.70	.83	.77	.73	.80	.75	.72	.77	.74	.70	.68
4	.89	.79	.72	.66	.87	.78	.71	.62	.75	.69	.65	.73	.68	.64	.71	.66	.63	.61
5	.83	.72	.64	.59	.81	.71	.64	.56	.69	.62	.58	.67	.61	.57	.65	.60	.56	.54
6	.77	.66	.58	.52	.75	.65	.57	.50	.63	.56	.52	.61	.55	.51	.60	.55	.51	.49
7	.72	.60	.53	.47	.70	.59	.52	.46	.58	.51	.47	.56	.51	.46	.55	.50	.46	.44
8	.67	.55	.48	.43	.66	.55	.48	.41	.53	.47	.42	.52	.46	.42	.51	.46	.42	.40
9	.63	.51	.44	.39	.62	.51	.44	.38	.49	.43	.38	.48	.42	.38	.47	.42	.38	.36
10	.59	.47	.40	.36	.58	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	989.9	39.3%
0-40	1,622.8	64.4%
0-60	2,312.5	91.8%
60-90	169.0	6.7%
70-100	72.1	2.9%
90-120	18.0	0.7%
0-90	2,481.5	98.5%
90-180	38.3	1.5%
0-180	2,519.8	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	118.8	4.7%	90-100	6.3	0.3%
10-20	343.7	13.6%	100-110	5.9	0.2%
20-30	527.4	20.9%	110-120	5.8	0.2%
30-40	632.9	25.1%	120-130	5.5	0.2%
40-50	495.4	19.7%	130-140	5.0	0.2%
50-60	194.4	7.7%	140-150	4.1	0.2%
60-70	103.1	4.1%	150-160	3.1	0.1%
70-80	52.1	2.1%	160-170	2.0	0.1%
80-90	13.7	0.5%	170-180	0.7	0%

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