

Catalog #		Date		Prepared by	
Project		Type		Notes	



HALO

830S 3" Sustainable LED Track Luminaire

The HALO 830S is where sustainability meets style—created using advanced additive manufacturing technology for faster production and shorter lead times. These sustainably produced, DECLARE certified, and Buy American Act (BAA) compliant fixtures are available in multiple lumen packages, optical options, and a designer's palette of 22 unique colors.

Typical Applications

Education • Hospitality • Retail

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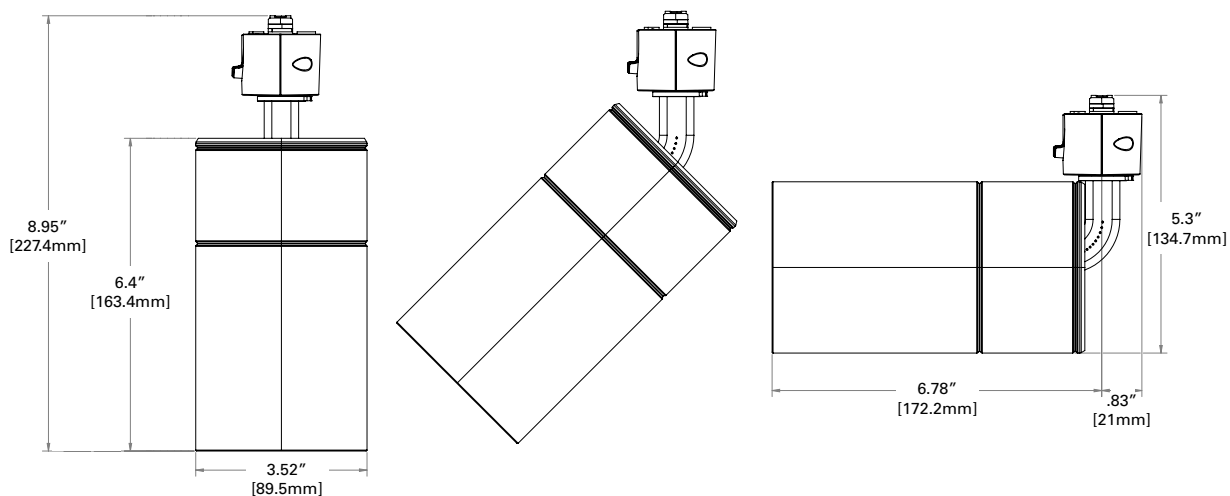
Product Certification



Top Product Features

- 3" Flatback Cylinder LEDTrack Head available in 22 unique designer colors
- 90+ CRI, 2700K, 3000K, 3500K, 4000K (2 SDCM)
- 3 Lumen Options: 1500, 1900, or 2300 lm
- Low-glare, spec-grade reflector optics: 17° Spot, 22° Narrow Flood, 34° Wide Flood, 60° Very Wide Flood
- Dims to 5% (phase cut TE) with compatible dimmers; 120V
- L90 at 65,000 hours (90% lumen maintenance at 65,000 hours)
- 5-year warranty

Dimensions



Order Information

SAMPLE ORDER NUMBER: **BAA-L830S10SP927WHTTEWH**

Domestic Preference	Track	Series	Output	Optic	CRI CCT	Finish	Adapter Color	Voltage
[Blank]=Standard BAA=Buy American Act	L=1 and 2 - circuit Halo Power Trac & Lazer Track LL=Lightolier LJ=Juno	830S=3" Sustainable LED Track Luminaire	10=1000 Lumens 15=1500 Lumens 23=2300 Lumens	SP=17° Spot NF=22° Narrow Flood FL=34° Flood WF=60° Wide Flood	927=2700K CCT; 90+ CRI 930=3000K CCT; 90+ CRI 935=3500K CCT; 90+ CRI 940=4000K CCT; 90+ CRI	Standard Colors WHT= White BLK= Black GRAY= Gray On Demand Colors! ROSE= Rose CAPP= Cappuccino SAGE= Sage BRNZ= Bronze BRSS= Brass ENGR= Enamel Green MEGR= Metallic Green MCHA= Matcha STBL= Steel Blue MEBL= Metallic Blue MYBL= Misty Blue DKGY= Dark Grey SLVR= Silver STBR= Stone Brown MEPU= Metallic Purple RGLD= Rose Gold CITR= Citrona CRWH= Cream White BURG= Burgandy	WH= White BL= Black	Blank=120V
Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes
Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.								
						1 - On demand colors are subject to variable pricing and may require longer lead times. For additional information, please contact customer service.		

Product Specifications

Design

- 3" Stem Mount, Flatback Cylinder Track Head
- Customizable: choose from 22 unique designer colors (3 standard and 19 on demand)
- Local production: Printed and assembled in the United States of America
- Quick delivery: Created and shipped on demand

Aiming

- Full aiming capability allows for +/- 90° vertically pivot and 350° horizontal rotation (without adjusting track position)

Optics & Light Engine

- Low-glare, specification-grade reflector optics in 17° spot, 22° narrow flood, 34° wide flood, and 60° very wide flood
- Proximity phosphors over single chip on board LED provide a uniform source with efficiency and no pixilation
- Color accuracy within 2-step MacAdam ellipse plus 90+ CRI provides color consistency and uniformity
- Lumen maintenance L90 at 65,000 hours
- Low-glare clear glass lens

Electrical

830S			
Lumens	1000	1500	2300
Input Voltage	120V	120V	120V
Input Current	0.076	0.116	0.17
Input Power	8.9W	13.7W	20.3W
Inrush(A)	0.64	0.76	0.28
THD	13.1	13.3	11.2
PF	0.96	0.98	0.99
Sound Rating	<=22DB	<=22DB	<=22DB

- Frequency: 50/60Hz
- Control: ELV dimming

Driver

- Integral 120V 50/60Hz constant current driver provides noise-free, high-efficiency operation
- Dimmable: Continuous, flicker-free dimming from 100% to 5% with compatible trailing edge (ELV) 120V phase cut dimmers (See 830S Dimming Guide for compatible dimmers)
- Tip: For optimal dimming performance, consider dimmers with low-end trim adjustment. Note that some dimmers require a neutral wire in the box.

Compliance

- cULus Listed and UL Certified
- DLC Premium
- Declare Compliant
- BAA Compliant
- Contains no mercury or lead and RoHS compliant
- May be used for State of California Title 24 residential compliance per JA8 High Efficacy Lighting certification standards; and Title 24 non-residential code as a dimmable LED luminaire. Refer to the CEC appliance efficiency database
- EMI/RFI emissions per FCC 47CFR Part 15 Class B consumer limits at 120V
- Photometric testing in accordance with IES LM-79-08.
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- Dry location listed

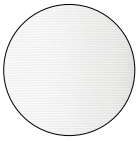
Sustainability Specifications

- PrentaLux 3D printed parts are produced with at least 65% recycled or bio-circular materials (using an ISCC certified mass balance approach).
- ISCC certified. Certification applies only to 3D printed material.
- Declare compliant. LBC Red List approved.

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/warranty

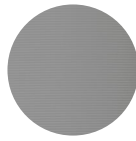
Standard Colors



WHTE = White



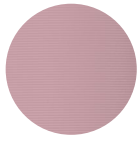
BLAK= Black



GRAY = Gray

On Demand Colors

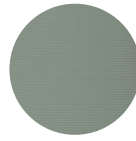
On demand colors are subject to variable pricing and may require longer lead times. For additional information, please contact customer service.



ROSE = Rose



CAPP = Cappuccino



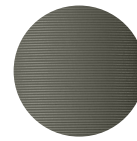
SAGE = Sage



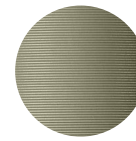
BRNZ = Bronze



BRSS = Brass



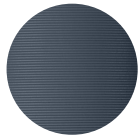
ENGR = Enamel Green



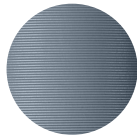
MEGR = Metallic Green



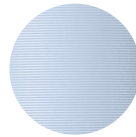
MCHA = Matcha



STBL = Steel Blue



MEBL = Metallic Blue



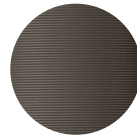
MYBL = Misty Blue



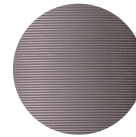
DKGY = Dark Gray



SLVR = Silver



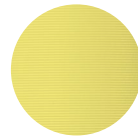
STBR = Stone Brown



MEPU = Metallic Purple



RGLD = Rose Gold



CITR = Citrona



CRWH = Cream White



BURG = Burgandy

Photometric Data

CCT	Lumen Ratio
2700	0.95
3000	1.00
3500	1.04
4000	1.07

Aiming Angles

L and W are the outer points where the candle power drops to 50% of the maximum. FC are the initial footcandles at the center of the beam. Data shown is for 3000K, use the table on the right for CRI/CCT adjustment factors.

D=Distance

L=Beam length

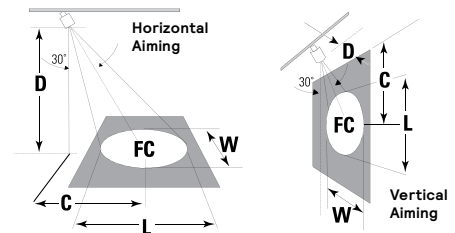
W=Beam Width

A=Aiming Angle

C=Distance to center beam

FC=Footcandles

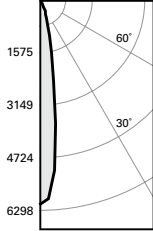
CBCP=Center Beam Candlepower



Photometric Data

1000lm Spot

L830S10SP930XXXX			
CCT ¹	Lumens	Input Watts ²	Efficacy
3000K	998 lms	9	110.9 lm/w
CRI	CBCP	Beam Angle	Report No.
90 min	6,298 cd	17.7°	P837154

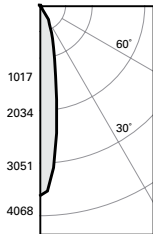


30° Aiming Angle Horizontal Illuminance on Floor					
D	C	FC	L	W	
6	3.5	118.7	2.3	2	
8	4.6	66.8	3	2.6	
10	5.8	42.7	3.8	3.4	
12	6.9	29.7	4.4	4	

30° Aiming Angle Horizontal Illuminance on Wall					
D	C	FC	L	W	
2	3.5	249	1.8	1	
3	5.2	110.6	2.7	1.6	
4	6.9	62.2	3.6	2	
5	8.7	39.8	4.7	2.6	

1000lm Narrow Flood

L830S10NF930XXXX			
CCT ¹	Lumens	Input Watts ²	Efficacy
3000K	978 lms	9	108.7 lm/w
CRI	CBCP	Beam Angle	Report No.
90 min	4,068 cd	20.2°	P837150

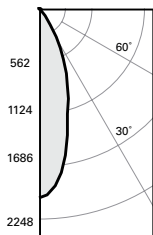


30° Aiming Angle Horizontal Illuminance on Floor					
D	C	FC	L	W	
6	3.5	76.7	2.5	2.2	
8	4.6	43.1	3.5	3	
10	5.8	27.6	4.4	3.8	
12	6.9	19.2	5.2	4.6	

30° Aiming Angle Vertical Illuminance on Wall					
D	C	FC	L	W	
2	3.5	163.6	2.4	1.2	
3	5.2	72.7	3.6	1.8	
4	6.9	40.9	4.8	2.4	
5	8.7	26.2	6	3	

1000lm Flood

L830S10FL930XXXX			
CCT ¹	Lumens	Input Watts ²	Efficacy
3000K	966 lms	9	107.3 lm/w
CRI	CBCP	Beam Angle	Report No.
90 min	2,248 cd	35.1°	P837146

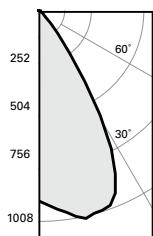


30° Aiming Angle Horizontal Illuminance on Floor					
D	C	FC	L	W	
6	3.5	43.6	4.2	3.6	
8	4.6	24.5	5.7	5	
10	5.8	15.7	7.1	6.2	
12	6.9	10.9	8.6	7.4	

30° Aiming Angle Vertical Illuminance on Wall					
D	C	FC	L	W	
2	3.5	118.3	2.5	1.8	
3	5.2	52.6	3.8	2.8	
4	6.9	29.6	5.1	3.6	
5	8.7	18.9	6.3	4.6	

1000lm Wide Flood

L830S10WF930XXXX			
CCT ¹	Lumens	Input Watts ²	Efficacy
3000K	945 lms	9	105.0 lm/w
CRI	CBCP	Beam Angle	Report No.
90 min	903 cd	61.9°	P837158



30° Aiming Angle Horizontal Illuminance on Floor					
D	C	FC	L	W	
6	3.5	26.1	4.8	6	
8	4.6	14.7	6.5	8	
10	5.8	9.4	8.1	10	
12	6.9	6.5	9.8	12.2	

30° Aiming Angle Vertical Illuminance on Wall					
D	C	FC	L	W	
2	3.5	117.2	1.5	2	
3	5.2	52.1	2.2	3.2	
4	6.9	29.3	3	4.2	
5	8.7	18.8	3.7	5.4	

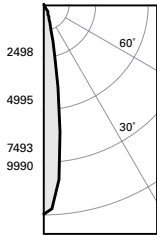
Notes:

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Wattage controlled to within +/- 5%.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

Photometric Data

1500lm Spot

L830S15SP930XXXX			
CCT ¹	Lumens	Input Watts ²	Efficacy
3000K	1538 lms	15	105.5 lm/w
CRI	CBCP	Beam Angle	Report No.
90 min	9,990 cd	17.7°	P837170

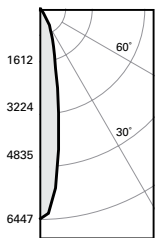


30° Aiming Angle Horizontal Illuminance on Floor				
D	C	FC	L	W
6	3.5	188.3	2.3	2
8	4.6	105.9	3	2.6
10	5.8	67.8	3.8	3.4
12	6.9	47.1	4.4	4

30° Aiming Angle Vertical Illuminance on Wall				
D	C	FC	L	W
2	3.5	394.9	1.8	1
3	5.2	175.5	2.7	1.6
4	6.9	98.7	3.6	2
5	8.7	63.2	4.7	2.6

1500lm Narrow Flood

L830S15NF930XXXX			
CCT ¹	Lumens	Input Watts ²	Efficacy
3000K	1550 lms	15	103.3 lm/w
CRI	CBCP	Beam Angle	Report No.
90 min	6,447 cd	20.2°	P837166

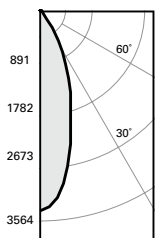


30° Aiming Angle Horizontal Illuminance on Floor				
D	C	FC	L	W
6	3.5	121.6	2.5	2.2
8	4.6	68.4	3.5	3
10	5.8	43.8	4.4	3.8
12	6.9	30.4	5.2	4.6

30° Aiming Angle Vertical Illuminance on Wall				
D	C	FC	L	W
2	3.5	259.2	2.4	1.2
3	5.2	115.2	3.6	1.8
4	6.9	64.8	4.8	2.4
5	8.7	41.5	6	3

1500lm Flood

L830S15FL930XXXX			
CCT ¹	Lumens	Input Watts ²	Efficacy
3000K	1532 lms	15	102.1 lm/w
CRI	CBCP	Beam Angle	Report No.
90 min	3,564 cd	35.1°	P837162

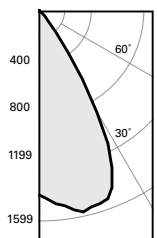


30° Aiming Angle Horizontal Illuminance on Floor				
D	C	FC	L	W
6	3.5	69.2	4.2	3.6
8	4.6	38.9	5.7	5
10	5.8	24.9	7.1	6.2
12	6.9	17.3	8.6	7.4

30° Aiming Angle Vertical Illuminance on Wall				
D	C	FC	L	W
2	3.5	187.6	2.5	1.8
3	5.2	83.4	3.8	2.8
4	6.9	46.9	5.1	3.6
5	8.7	30	6.3	4.6

1500lm Wide Flood

L830S15VF930XXXX			
CCT ¹	Lumens	Input Watts ²	Efficacy
3000K	1498 lms	15	99.9 lm/w
CRI	CBCP	Beam Angle	Report No.
90 min	1,432 cd	61.9°	P837174



30° Aiming Angle Horizontal Illuminance on Floor				
D	C	FC	L	W
6	3.5	41.3	4.8	6
8	4.6	23.2	6.5	8
10	5.8	14.9	8.1	10
12	6.9	10.3	9.8	12.2

30° Aiming Angle Vertical Illuminance on Wall				
D	C	FC	L	W
2	3.5	185.8	1.5	2
3	5.2	82.6	2.2	3.2
4	6.9	46.4	3	4.2
5	8.7	29.7	3.7	5.4

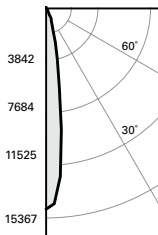
Notes:

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Wattage controlled to within +/- 5%.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

Photometric Data

2300lm Spot

L830S23SP930XXXX			
CCT ¹	Lumens	Input Watts ²	Efficacy
3000K	2435 lms	23	106.8 lm/w
CRI	CBCP	Beam Angle	Report No.
90 min	15,367 cd	17.7°	P837186

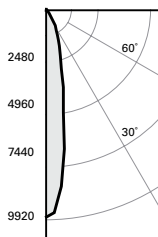


30° Aiming Angle Horizontal Illuminance on Floor				
D	C	FC	L	W
6	3.5	289.6	2.3	2
8	4.6	162.9	3	2.6
10	5.8	104.3	3.8	3.4
12	6.9	72.4	4.4	4

30° Aiming Angle Vertical Illuminance on Wall				
D	C	FC	L	W
2	3.5	607.4	1.8	1
3	5.2	270	2.7	1.6
4	6.9	151.9	3.6	2
5	8.7	97.2	4.7	2.6

2300lm Narrow Flood

L830S23NF930XXXX			
CCT ¹	Lumens	Input Watts ²	Efficacy
3000K	2385 lms	22.8	104.6 lm/w
CRI	CBCP	Beam Angle	Report No.
90 min	9,920 cd	20.2°	P837182

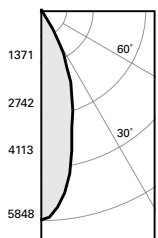


30° Aiming Angle Horizontal Illuminance on Floor				
D	C	FC	L	W
6	3.5	187	2.5	2.2
8	4.6	105.2	3.5	3
10	5.8	67.3	4.4	3.8
12	6.9	46.8	5.2	4.6

30° Aiming Angle Vertical Illuminance on Wall				
D	C	FC	L	W
2	3.5	398.9	2.4	1.2
3	5.2	177.3	3.6	1.8
4	6.9	99.7	4.8	2.4
5	8.7	63.8	6	3

2300lm Flood

L830S23FL930XXXX			
CCT ¹	Lumens	Input Watts ²	Efficacy
3000K	2357 lms	22.8	103.4 lm/w
CRI	CBCP	Beam Angle	Report No.
90 min	5,484 cd	35.1°	P837178

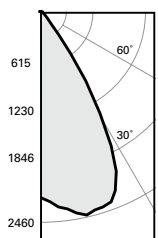


30° Aiming Angle Horizontal Illuminance on Floor				
D	C	FC	L	W
6	3.5	106.5	4.2	3.6
8	4.6	59.9	5.7	5
10	5.8	38.3	7.1	6.2
12	6.9	26.6	8.6	7.4

30° Aiming Angle Vertical Illuminance on Wall				
D	C	FC	L	W
2	3.5	288.6	2.5	1.8
3	5.2	128.3	3.8	2.8
4	6.9	72.2	5.1	3.6
5	8.7	46.2	6.3	4.6

2300lm Wide Flood

L830S23WF930XXXX			
CCT ¹	Lumens	Input Watts ²	Efficacy
3000K	2305 lms	23	101.1 lm/w
CRI	CBCP	Beam Angle	Report No.
90 min	2,203 cd	61.9°	P837190



30° Aiming Angle Horizontal Illuminance on Floor				
D	C	FC	L	W
6	3.5	63.6	4.8	6
8	4.6	35.8	6.5	8
10	5.8	22.9	8.1	10
12	6.9	15.9	9.8	12.2

30° Aiming Angle Vertical Illuminance on Wall				
D	C	FC	L	W
2	3.5	285.9	1.5	2
3	5.2	127.1	2.2	3.2
4	6.9	71.5	3	4.2
5	8.7	45.7	3.7	5.4

Notes:

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Wattage controlled to within +/- 5%.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.