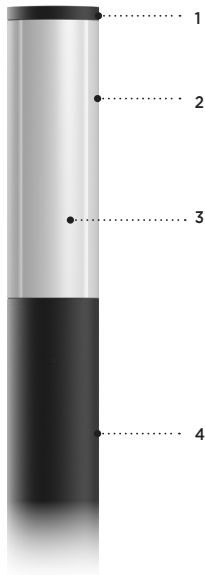# LUMINIS®

CL820/CL840/CL870 SERIES
LumiSTIK - LED
8" COLUMN

TYPE: _____ QUANTITY: _____ PROJECT: _____
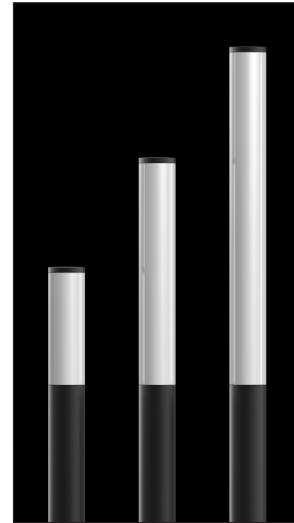
CATALOG
NUMBER:

| FIXTURE | LED LIGHT SELECTION | COLUMN | VOLTAGE | FINISH | OPTION | OPTION | OPTION |

CL820/CL840/CL870

1- Heavy cast aluminum top cover with embedded heat sink.
2- Ø 8" (203mm) High impact white translucent acrylic diffuser UV stabilized.
3- LED array.
4- Ø 8" (203mm) Extruded aluminum column.

MATERIALS
LumiSTIK column is made of 6061-T6 extruded aluminum alloy. All other cast parts are corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%.
LED boards are contained in a white UV stabilized high impact acrylic sealed cylinder. The assembly is designed to provide a uniform column illumination.
LumiSTIK column is available in three standard acrylic lengths. Other lengths are available on request.

ELECTRICAL
DRIVER Standard driver is 0-10V dimming-ready (dims to 10%) with: 120-277 multi-volt compatibility (50-60Hz), operating temperature range of -40ºC to +55ºC/-40ºF to +131ºF, output over voltage protection, output over current protection and output short circuit protection with auto-recovery. Driver for RGBW is DMX512 / RDM compatible.

LED 2700K/3000K/3500K/4000K CCT with 80 CRI. Optional RGBW.

LIFE
50,000hrs $L_{85}B_{50}$ (based on IESNA TM-21 Test Method and LM-80 data).

FINISH
Five-stage preparation process includes preheating of cast aluminum parts for air extraction. Polyester powder coating is applied through an electrostatic process, and oven cured for long term finish.
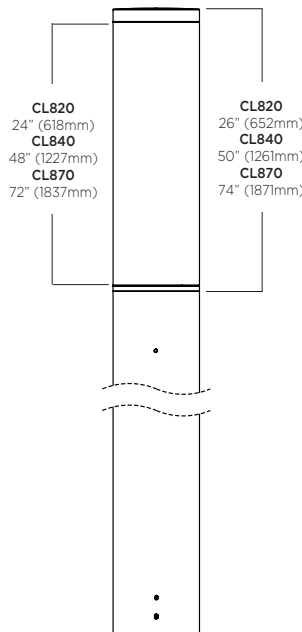
CERTIFICATION
Tested to UL1598 and CSA 22.2 #250. ETL listed wet location. Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25ºC. Lumen depreciation in accordance with IESNA LM80 standards. Rated IP65.
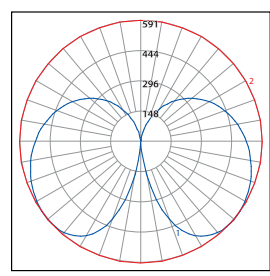
MOUNTING
LumiSTIK is designed for ease of access and installation. See page 3 for mounting details.

| **CL820**
24" (618mm)
CL840
48" (1227mm)
CL870
72" (1837mm) | **CL820**
26" (652mm)
CL840
50" (1261mm)
CL870
74" (1871mm) |

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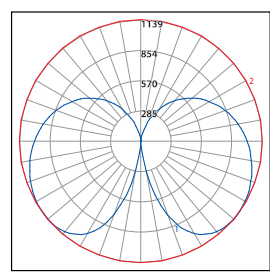Luminaires may be altered for design improvement or discontinued without prior notice.

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CL820/CL840/CL870 SERIES
## LumiSTIK - LED

TYPICAL PHOTOMETRY SUMMARY

Descriptive Information

CL820-L4L50
Total Lms: 5581 Lumens
Total Input Watts: 50.4 W
Efficacy: 111 Lumens/Watt
BUG: B2-U5-G3
CCT/CRI: 4000K/80
Maximum Candela: 591 @ 47.5°H/25.5°V

Descriptive Information

CL840-L8L100
Total Lms: 10,749 Lumens
Total Input Watts: 96.6 W
Efficacy: 112 Lumens/Watt
BUG: B3-U5-G4
CCT/CRI: 4000K/80
Maximum Candela: 1139 @ 47.5°H/25.5°V
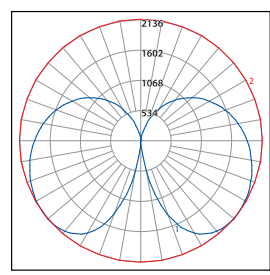
Descriptive Information

CL870-L12L200
Total Lms: 20,157 Lumens
Total Input Watts: 189.3 W
Efficacy: 107 Lumens/Watt
BUG: B3-U5-G5
CCT/CRI: 4000K/80
Maximum Candela: 2136 @ 47.5°H/25.5°V

Please visit our web site www.luminis.com for complete I.E.S. formatted download data.

LUMINAIRE SELECTION

❶ MODEL SELECTION

Select acrylic length

CL820	CL840	CL870

White LED

CL820	CL840	CL870

RGBW LED
(color for ref. only)

❷ LED LIGHT SELECTION (4000K/80CRI)

WHITE LED (4000K/ 80CRI)

	SUFFIX	DELIVERED LUMENS	INPUT WATTS	LM / FT
CL820	☐ L4L10	1347	11	673
	☐ L4L20	2022	16	1011
	☐ L4L30	3743	32	1871
	☐ L4L40	4333	38	2166
	☐ L4L50	5581	50	2790
CL840	☐ L8L20	2241	18	560
	☐ L8L40	4267	35	1066
	☐ L8L60	5972	50	1493
	☐ L8L80	8455	74	2113
	☐ L8L100	10749	97	2687
CL870	☐ L12L30	3361	27	560
	☐ L12L60	5842	47	973
	☐ L12L90	8631	72	1438
	☐ L12L120	12060	104	2010
	☐ L12L150	15802	142	2633
	☐ L12L200	20157	189	3359

RGBW SELECTION (CONTROLLED WITH DMX/RDM) [9]

	SUFFIX	DELIVERED LUMENS	INPUT WATTS	LM / FT
CL820	☐ L4RGBW	2277	35	1138
CL840	☐ L8RGBW	4627	71	1158
CL870	☐ L12RGBW	6979	108	1164

Note: Values are for total delivered lumens. For individual maximum output values, refer to page 4. White CCT is 4000K & 80CRI.

❸ OAH COLUMN SELECTION

	OAH Assembly		
POLE FOR:	CL820	CL840	CL870
☐ CLP844	72"	96"	120"
☐ CLP868	96"	120"	144"
☐ CLP892	120"	144"	168"
☐ CLP8116	144"	168"	192"
☐ CLP8140	168"	192"	216"
☐ CLP8164	192"	216"	240"
☐ CLP8188	216"	240"	264"
☐ CLP8212	240"	264"	288"
☐ CLP8236	264"	288"	312"

(OAH Column consists of acrylic + pole)

❹ VOLTAGE [1]

☐ 120V
☐ 277V

Optional
☐ 347V
☐ 480V

❺ FINISH

STANDARD COLORS

☐ WHT Snow white
☐ BKT Jet black
☐ BZT Bronze
☐ MST Matte silver
☐ GRT Titanium gray
☐ DGT Gun metal
☐ CHT Champagne
☐ SGT Steel gray
☐ BGT English cream

(Refer to color chart)

OPTIONAL COLORS

☐ CS Custom color
☐ RAL RAL# color

☐ MG Marine Grade [5]
(Ensure to also select the standard color)

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CL820/CL840/CL870 SERIES
LumiSTIK - LED

OPTIONS

ELECTRICAL

- ☐ **FS**   Fuse
- ☐ **PH**   Photocell [2]
- ☐ **SP**   Surge protector 10KV

CCT & CRI
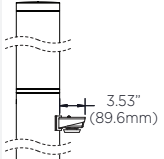
Alternate CCT °K LED (LCF: Lumen conversion factor)

- ☐ **K27**   2700K CCT 80 CRI (LCF: 0.91)
- ☐ **K3**   3000K CCT 80 CRI (LCF: 0.94)
- ☐ **K35**   3500K CCT 80 CRI (LCF: 0.98)
- ☐ **K4**   4000K CCT 80 CRI (LCF: 1.00)

NOTE: Other CCT & higher CRI available, please consult factory.

MOTION SENSOR DEVICE

- ☐ **MSD**   Motion sensor device (High/low to 25%). 255° coverage. Installed at 180° from hand hole. 120/277VAC, 50/60Hz (or 230VAC, 50Hz).

3.53"
(89.6mm)

ACCESSORIES

- ☐ **GFI**   Ground fault interruption receptacle [3]
- ☐ **CGF**   Ground fault interruption with clear in-use cover [3]
- ☐ **BNF**   Fixed 24" banner support (single arm at top) [4]
- ☐ **2BNF**   Two fixed 24" banner supports (arm at top & bottom) [4]
- ☐ **BNF180**   Two fixed 24" banner supports at 180° (arms at top only) [4]
- ☐ **2BNF180**   Four fixed 24" banner supports at 180° (arms at top & bottom) [4]
- ☐ **DECO1** [10, 11]   Full decorative shroud with round perforations. See page 5 for more details.
- ☐ **DECO2** [10, 11]   Full decorative shroud with vertical slots. See page 5 for more details.
- ☐ **DECO3** [10, 11]   Half blockout shield. See page 5 for more details.
- ☐ **DECO4** [11]   Half blockout shield. Field installable. See page 5 for more details.

CONTROL

- ☐ **NLTAIR2**   nLight AIR Control gen2, Pole mounted black sensor. [6, 7] 270° coverage. Installed at 180° from hand hole.

5"
[127mm]
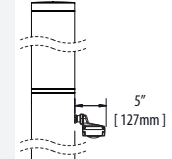
NOTES

1. Luminaires are factory prewired by default for 120V. For other voltages, please specify with catalog number, or consult factory.
2. Photocell installed on the side of the fixture.
3. GFI and CGF options are installed 26" above grade unless otherwise specified. CGF cover protrudes by Ø 3.62" (92mm). 120V required for GFI or CGF.
4. BNF, 2BNF, BNF180 & 2BNF180 are factory set in position as required. Location along pole to be specified.
5. Marine grade paint for harsh, coastal environment and exposure to salt water. Additional delay required please contact factory for info.
6. Not compatible with PH, MSD.
7. White sensor available upon request.
8. OAH increases by 1" for RGBW models. See page 5 for details.
9. RGBW not available with 347V, 480V, PH, MSD, NLTAIR2.
10. OAH varies for DECO1/2/3 models. See page 5 for details.
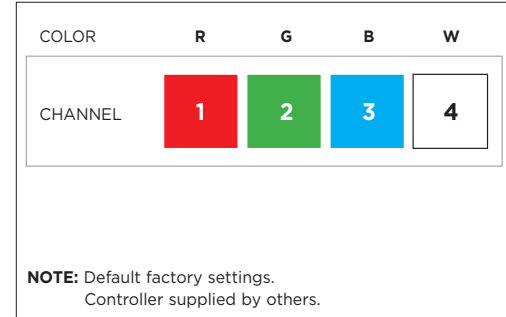11. Not compatible with RGBW.

RGBW DETAILS

RGBW DMX
Total delivered lumens [9]

	WHITE 4000K			TOT RGB			TOT		
Maximum output values	W	lm	lm/ft	W	lm	lm/ft	W	lm	lm/ft
CL820	9	1159	579	26	1118	559	35	2277	1138
CL840	19	2363	591	52	2264	567	71	4627	1158
CL870	28	3567	595	80	3412	569	108	6979	1164

The fixtures will be delivered with the default address 1.

RGBW – DMX / RDM 4 channels
Users can generate any color by mixing the intensity of four independent red, green, blue and white channels.

COLOR	R	G	B	W
CHANNEL	1	2	3	4

NOTE: Default factory settings. Controller supplied by others.

CL820/CL840/CL870 SERIES
LumiSTIK - LED

MOUNTING INFORMATION

OVERALL HEIGHTS FROM 72" (6FT) TO 168" (14FT)

8" (203mm)
18" (457mm)
5" (127mm)
4 x 1/2"-13 BOLTS @ 90º
7.69" (195.3mm)
3.25" (82.5mm)
5.5" (139.7mm) BOLT CIRCLE

2.8" (71mm) Anchor bolt projection above finished grade.

Column is secured with a set of (4) 1/2"-13 x 18" lg. galvanized anchor bolts.
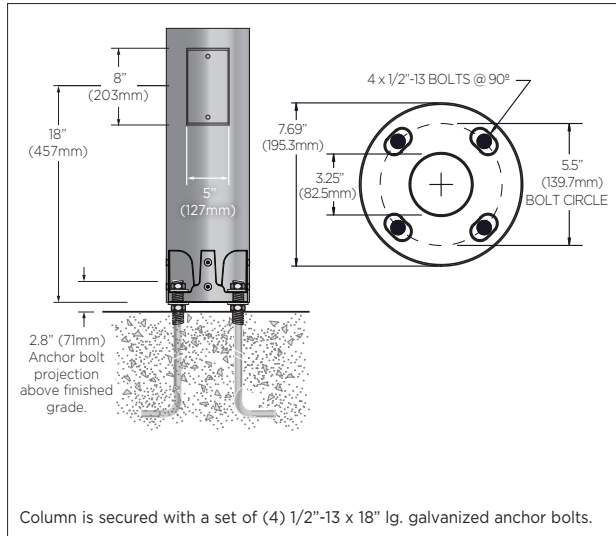
OVERALL HEIGHTS ABOVE 168" (14FT)

8" (203mm)
18" (457mm)
5" (127mm)
4.87" (124mm)
Base cover line Ø 14.5" (368mm)
11.25" (286mm)
11" (279mm)
12" (305mm) Bolt circle
Hand hole position

2.8" (71mm) Anchor bolt projection above finished grade.

For overall heights (OAH) above 240" (20FT) column is secured with a set of (4) 1" - 8 x 36" LG galvanised anchor bolts. For heights up to 240" (20FT) inclusively, column is secured with a set of (4) 3/4"-10 x 18" lg. galvanized anchor bolts.
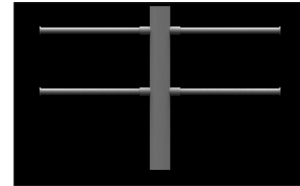
MOUNTING ACCESSORIES

BNF: Fixed 24" banner support

2BNF: Two fixed 24" banner supports

BNF180: Two fixed 24" banner supports at 180º

2BNF180: Four fixed 24" banner supports at 180º

| 4

Project 21-12877-3 Date 6/25/2021	Catalog Number	Type
RGB/W | Saturated Color	CL840 L8RGBW 120 SGT K3	
Submitted By	Notes	
16500, INC		

sixteen**5**hundred

CL820/CL840/CL870 SERIES
LumiSTIK - LED

ACCESSORIES

CL820
27" (686mm)
CL840
51" (1282mm)
CL870
73" (1860mm)

DECO1
Decorative shroud. 360° shield with circular pattern. 9% light transmission.
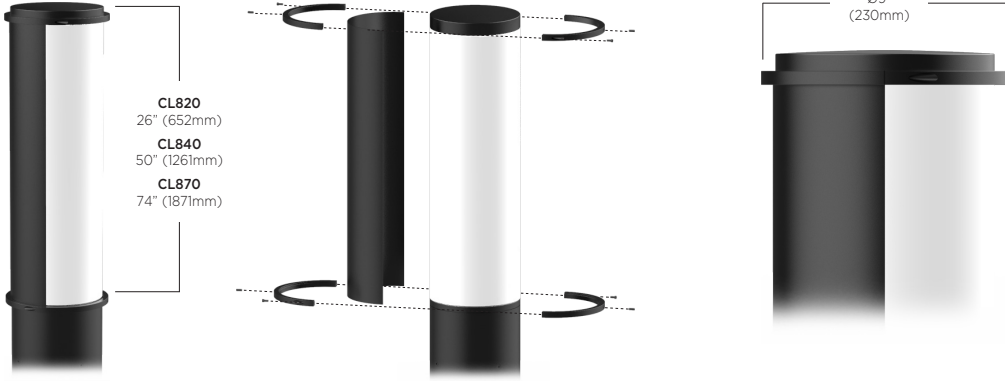Cannot be installed on-site.
(CL820 shown here)

CL820
27" (686mm)
CL840
51" (1282mm)
CL870
73" (1860mm)

DECO2
Decorative shroud. 360° shield with vertical slot pattern. 23% light transmission.
Cannot be installed on-site.
(CL820 shown here)

CL820
27" (686mm)
CL840
51" (1282mm)
CL870
73" (1860mm)

DECO3
Blockout 180° shield.
Cannot be installed on-site.
(CL820 shown here)

CL820
26" (652mm)
CL840
50" (1261mm)
CL870
74" (1871mm)

Ø9"
(230mm)

DECO4
Blockout 180° shield. Field installable.
(CL820 shown here)

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CL820/CL840/CL870 SERIES
LumiSTIK - LED

RGBW DIMENSIONS

CL820
25" (645mm)
CL840
49" (1227mm)
CL870
73" (1864mm)

OAH [8]
OAH increases by 1" for RGBW models.