

Type SA -

Each run configured to give +/- 3" spacing between columns (880mm and 1380mm lengths are non standard but required to meet lengths needed)

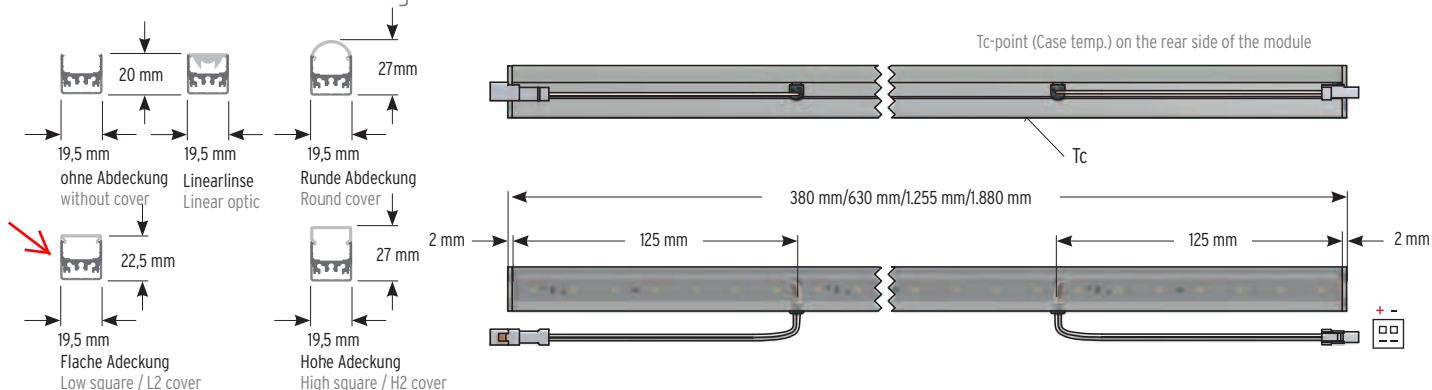


XOOLINE™ HYDRA White IP40¹



24 V, LED-linear luminaire in an aluminum profile, offering 12 high quality optics to choose from. The diffuser optics, clear, diffuse or opal covers, make soft light settings possible. Among the linear optics, a 10° wall grazer or 30° and 60° general illumination optics allow precise light control. Available in 4 standardized lengths, including mounting profile. With protection ratings of IP10 and IP40. Japanese LED of the highest quality. "One Bin Only" within 3 MacAdam guarantees constant color temperature and highest light quality at a lifetime of > 60,000 h (L80/B10). Up to CRI 96. Made in Germany.

Dimensions & available lengths



Elektrische & Optische Betriebsdaten Electrical & output data

Voltage	24 Volt (23 V _{min} , 25 V _{max})
Temperature ³	T _{cmin} = -25°C, T _{cmax} (untere Tabelle Table below)
Storage temperature	T _{smin} = -30°C, T _{smax} = 85°C
Ambient temperature	T _a > -25°C, T _a > max (untere Tabelle Table below)
Ra CRI	bis zu up to 95
R9	bis zu up to 65

XOOLINE™ HYDRA	LD5	LD10	LD15	LD25	LD40	HD6	HD10	HD15	HD25	HD36
Power (W/m) ²	5	10	15	25	40	6	10	15	25	36
Efficacy (lm/W) ²	132	131	140	137	103	132	131	140	137	139
max. serielle Lauflänge bei einer Einspeisung max. serial run length (mm)	7500	5000	4000	3000	2000	5000	5000	4000	3000	2000
Temp. Tc-Punkt Temp. Tc-point (T _{cmax}) ³	70°C	70°C	70°C	75°C	85°C	70°C	70°C	70°C	75°C	85°C
max. Außentemp. max. Ambient temp. (T _a max)	50°C	50°C	40°C	40°C	35°C	50°C	50°C	50°C	45°C	35°C

		LD5	LD10	LD15	LD25	LD40	HD6	HD10	HD15	HD25	HD36
Color temperature		lumen/meter (lm/m) ¹ @clear cover ⁴									
● W820	2000 K	380	760	1220	1980	-	460	760	1220	1980	2900
● W822	2200 K	440	870	1390	2270	-	520	870	1390	2270	3310
● W825	2500 K	500	1000	1590	2590	3370	600	1000	1590	2590	3780
● W827	W927 2700 K	450	1060	1690	2750	3560	530	890	1690	2750	4010
→ ● W830	W930 3000 K	450	1120	1790	2910	3780	540	910	1790	2910	4260
● W835	W935 3500 K	470	1180	1880	3060	4020	560	930	1880	3060	4470
● W840	W940 4000 K	480	1200	1920	3130	4120	570	960	1920	3130	4570
● W850	5000 K	660	1310	2100	3420	4130	790	1310	2100	3420	5000



ONE BIN ONLY



Lebensdauer
Lifetime



Photometrischer Code
Photometric code



LM 79 konform
LM 79 compliant



LM 80 konform
LM 80 compliant



Schutz gegen körnige
Fremdkörper > 1 mm
Protection against
granular objects > 1 mm

¹ Without cover the IP protection level is reduced from IP40 to IP10.

² The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

³ The Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.

⁴ Sample values.

! Note: -25% luminous flux at opal and -2% with diffuse cover.

Order code

Your order code	XOOLINE HYD	---	W	---	---	---	-C00	IP---
Order code example	XOOLINE HYD	HD10	W9	27	1880	OL-C002		IP40

LED tape

HYDRA LD5	LD5
HYDRA LD10	LD10
HYDRA LD15	LD15
HYDRA LD25	LD25
HYDRA LD40	LD40
HYDRA HD6	HD6
HYDRA HD10	HD10
HYDRA HD15	HD15
HYDRA HD25	HD25
HYDRA HD36	HD36

Color rendering

> 80	8
> 90 (only LD5, HD6, HD10)	9

Color temperature

2000 K	20
2200 K	22
2500 K	25
2700 K	27
3000 K	30
3500 K	35
4000 K	40
5000 K	50

Length

380 mm	0380	880 mm	880 [^]
630 mm	0630	1380 mm	1380 [^]
1255 mm	1255		
1880 mm	1880		

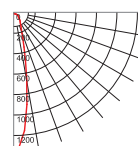
Cover / Lens options

No cover/lens	NC-C00x ⁵
10° Diffuse	10D-C004
30° Diffuse	30D-C004
60° Diffuse	60D-C004
Opal round cover	OR-C00x ⁵
Diffuse round cover	DR-C00x ⁵
Clear round cover	CR-C00x ⁵
Opal low square cover	OL-C00x ⁵
Diffuse low square cover	DL-C00x ⁵
Clear low square cover	CL-C00x ⁵
Opal high square cover	OH-C00x ⁵
Diffuse high square cover	DH-C00x ⁵
Clear high square cover	CH-C00x ⁵

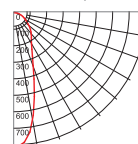
Ingress protection

IP10 (without optic / cover)	IP10
IP40	IP40

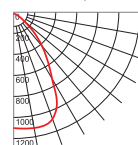
[^] non standard lengths added for legths needed on project



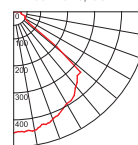
Lineare Linse, 10°⁶
Linear lens, 10°⁶



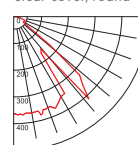
Lineare Linse, 30°⁶
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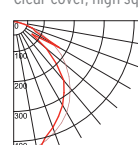
Lineare Linse, 60°⁶
Linear lens, 60°⁶



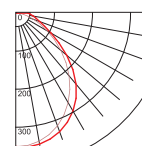
Klare Abdeckung, rund⁶
Clear cover, round⁶



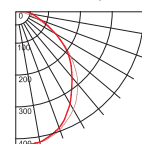
Klare Abdeckung, hoch⁶
Clear cover, high square⁶



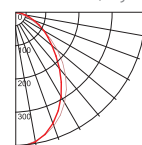
Klare Abdeckung, flach⁶
Clear cover, flat⁶



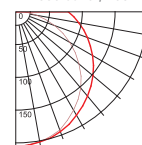
Diffuse Abdeckung, rund⁶
Diffuse cover, round⁶



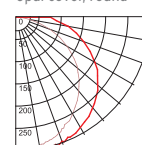
Diffuse Abdeckung, hoch⁶
Diffuse cover, high square⁶



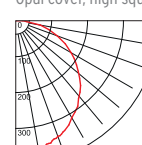
Diffuse Abdeckung, flach⁶
Diffuse cover, flat⁶



Opale Abdeckung, rund⁶
Opal cover, round⁶



Opale Abdeckung, hoch⁶
Opal cover, high square⁶



Opale Abdeckung, flach⁶
Opal cover, flat⁶

⁵ C004 für HYDRA HD36 und LD40 notwendig, ansonsten C002

⁵ C004 required for HYDRA HD36 and LD40 tapes, C002 else.

⁶ DIN 5040:A40

· Nähere Erläuterungen zu Änderungen, Grenzwerten und Schwankungen im Herstellungsprozess finden Sie auf Seite 398.

· For more details regarding catalogue changes, min and max data sheet values and production tolerances please see at page 399.

Please choose your accessories

Mounting	Art.-#
☒ Montagekanal in voller Länge (autom. für jede Leuchte im Lieferumfang enthalten) Full length mounting channel (automatically included for every fixture)	10000039

Anschlusskabel vom Netzgerät Lead connector from driver	Art.-#
☐ VarioCon Female Mini 2 x 0,34 mm ² , 2 m IP67	15000142
☐ VarioCon Extension Mini 2 x 0,34 mm ² , 2 m IP67	15000144
☐ VarioCon Female Mini Protection Cap Mono IP67	15000218

Recommended drivers	Art.-#
☐ VarioPSU 24V/100W IP20/IP40 Black, 220 - 240 V supply	16000075

Empfohlene Steuerungen Recommended controls	Art.-#
☐ VarioControl LinearDrive 210D DALI	17000037

Type SA -

Each run configured to give +/- 3" spacing between columns (880mm and 1380mm lengths are non standard but required to meet lengths needed)

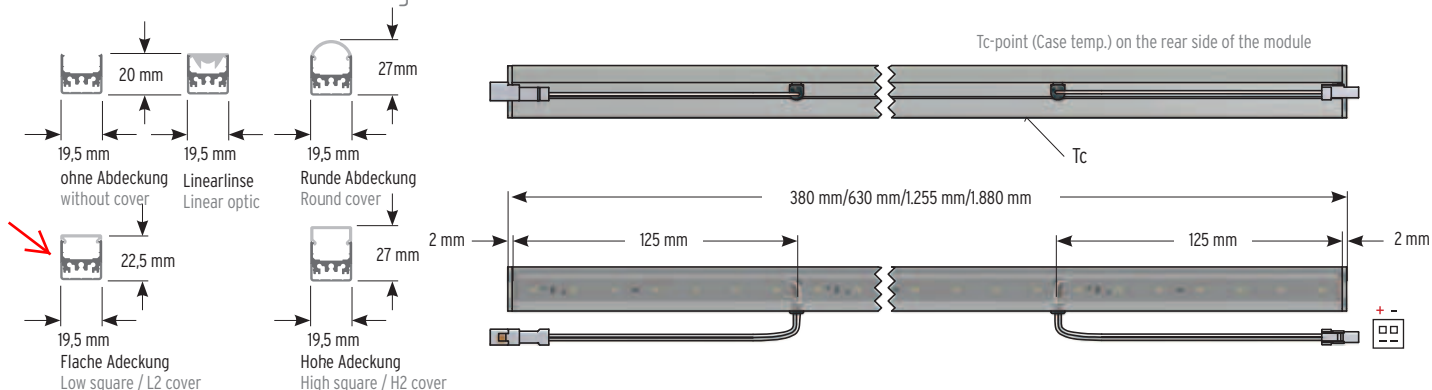


XOOLINE™ HYDRA White IP40¹



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Dimensions & available lengths

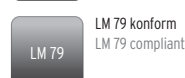
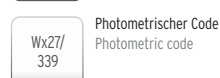
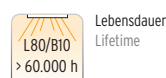


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R9	bis zu up to 65

XOOLINE™ HYDRA	LD5	LD10	LD15	LD25	LD40	HD6	HD10	HD15	HD25	HD36
Power (W/m) ²	5	10	15	25	40	6	10	15	25	36
Efficacy (lm/W) ²	132	131	140	137	103	132	131	140	137	139
max. serielle Lauflänge bei einer Einspeisung max. serial run length (mm)	7500	5000	4000	3000	2000	5000	5000	4000	3000	2000
Temp. Tc-Punkt Temp. Tc-point (T _{cmax}) ³	70°C	70°C	70°C	75°C	85°C	70°C	70°C	70°C	75°C	85°C
max. Außentemp. max. Ambient temp. (T _{amax})	50°C	50°C	40°C	40°C	35°C	50°C	50°C	50°C	45°C	35°C

		LD5	LD10	LD15	LD25	LD40	HD6	HD10	HD15	HD25	HD36
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● W840	W940 4000 K	480	1200	1920	3130	4120	570	960	1920	3130	4570
● W850	5000 K	660	1310	2100	3420	4130	790	1310	2100	3420	5000



¹ Without cover the IP protection level is reduced from IP40 to IP10.

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! Note: -25% luminous flux at opal and -2% with diffuse cover.

Order code

Your order code	XOOLINE HYD	---	W	---	---	---	-C00	IP---
Order code example	XOOLINE HYD	HD10	W9	27	1880	OL-C002		IP40

LED tape

HYDRA LD5	LD5
HYDRA LD10	LD10
HYDRA LD15	LD15
HYDRA LD25	LD25
HYDRA LD40	LD40
HYDRA HD6	HD6
HYDRA HD10	HD10
HYDRA HD15	HD15
HYDRA HD25	HD25
HYDRA HD36	HD36

Color rendering

> 80	8
> 90 (only LD5, HD6, HD10)	9

Color temperature

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Length

380 mm	0380	880 mm	880 [^]
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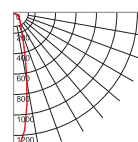
Cover / Lens options

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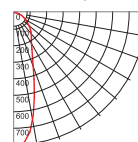
Ingress protection

IP10 (without optic / cover)	IP10
IP40	IP40

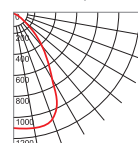
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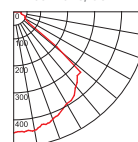
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Linear lens, 10°⁶



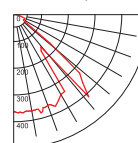
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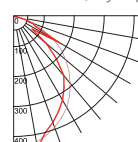
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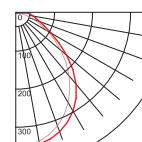
Klare Abdeckung, rund⁶
Clear cover, round⁶



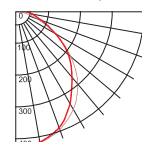
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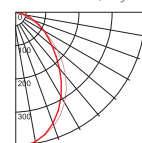
Klare Abdeckung, flach⁶
Clear cover, flat⁶



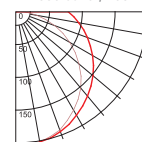
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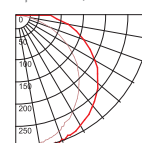
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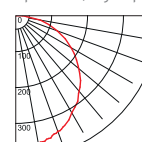
Diffuse Abdeckung, flach⁶
Diffuse cover, flat⁶



Opale Abdeckung, rund⁶
Opal cover, round⁶



Opale Abdeckung, hoch⁶
Opal cover, high square⁶



Opale Abdeckung, flach⁶
Opal cover, flat⁶

⁵ C004 für HYDRA HD36 und LD40 notwendig, ansonsten C002

⁵ C004 required for HYDRA HD36 and LD40 tapes, C002 else.

⁶ DIN 5040:A40

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Mounting	Art.-#
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Anschlusskabel vom Netzgerät Lead connector from driver	Art.-#
☐ VarioCon Female Mini 2 x 0,34 mm ² , 2 m IP67	15000142
☐ VarioCon Extension Mini 2 x 0,34 mm ² , 2 m IP67	15000144
☐ VarioCon Female Mini Protection Cap Mono IP67	15000218

Recommended drivers	Art.-#
☐ VarioPSU 24V/100W IP20/IP40 Black, 220 - 240 V supply	16000075

Empfohlene Steuerungen Recommended controls	Art.-#
☐ VarioControl LinearDrive 210D DALI	17000037

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: January 17, 2017

Attention: stl-cac@cannondesign.com

Contact Person / WTA Field Inspector:
Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Mark de la Fuente

Project No. WT 14127.01

☐

UPS

☐

Courier

☒

Email

Copies	No.	Description
1 PDF	265200E01A	(Submittal No.'s:) (R&B CxSRC)
		(Cannon #265200-006) - (Paric #15051) - (WES #607)
		➤ Outdoor Lighting Final Fixture Package - Resubmittal
		EB, EC, ED, SA, EF36, EF42, EH, EL, and RQ

***Submittal Review Comments**

- 1. Refer to previous shop drawing submittals for previous shop drawing comments.**
- Type EC: See attached cutsheet for updated configuration.
- Type EF36/42: Provide Bronze finish.
- Type EL: Provide Black finish.
- Type RQ: Provide 277 volt configuration.

c: **Kelvin Patel**
Kpatel@cannondesign.com

☐ Furnish as Submitted

☒ ***Furnish as Noted**

☐ Rejected

☐ Revise & Resubmit

☐ Reviewed

☐

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with the design concept of project and general compliance with information given in contract documents. Contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

14127.01 - 265200 E01A
RESUBMITTAL -
MAD TO REVIEW
01/11/17

WTASHOP - Webster ISB - 26 5200-006

From: STL-CAC <STL-CAC@CANNONDESIGN.COM>
To: 'Patrick Garner' <pgarner@wmtao.com>, "WTASHOP (WTASHOP@wmtao.com)" <WTA...>
Date: 1/11/2017 1:59 PM
Subject: Webster ISB - 26 5200-006
Cc: "Patel, Kelvin" <kpatel@CANNONDESIGN.COM>
Attachments: 265200-006 Outdoor lighting final fixture package.pdf

Attached for review.

Melissa Pirtle

CANNONDESIGN

1100 Clark Ave
St. Louis, Missouri 63102
T [314.425.8797](tel:314.425.8797)
cannondesign.com

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

PROJECT NAME	
ADDRESS	
NUMBER	
OWNER	
ARCHITECT / ENGINEER	
SUBMITTED BY	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
CRITICALITY	

To be completed by Reviewer

CANNON DESIGN SUBMITTAL NUMBER
RECEIVED DATE

- ☐ **A. No Exceptions Taken**
No further review of submittal is required.
- ☐ **B. Make Corrections Noted**
Incorporate corrections in work;
resubmission is not required.
- ☐ **C. Revise and Resubmit**
Revise as noted, and resubmit for review.
- ☐ **D. Rejected**
Submittal is not in compliance with Contract Documents;
provide new submittal.
- ☐ **E. For Record / Information Only**
Submittal was reviewed for Record / Information
purposes only.
- ☐ **F. Not Required for Review**
Submittal is not required by Contract Documents
and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

ITEM BEING SUBMITTED (check only one)

- ☐ Shop Drawings ☐ Certification / Qualifications ☐ Coordination Drawing
☐ Samples ☐ Record Documents ☐ Calculations
 (_____ copies) ☐ Product Data ☐ Schedules
☐ LEED Submittal ☐ O&M Manuals
☐ Other _____

ITEM BEING SUBMITTED FOR (check only one)

- ☐ Action ☐ Information Only ☐ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)



PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

Ry:

By:
Devin D. Gates

REVIEWED BY	DATE

A/E COMMENTS

- ☐
- See attached sheet(s) for additional comments

REVIEWED BY	DATE