PRISMBEAM²⁴ 24 VDC

Pre-assembled, stick-based LED illumination for new & retrofit sign cabinet applications

PRISM

Specifications

Dimensions W × H.........................Single-sided...........0.5" × 0.89"
Double-sided........0.5" × 1.27"

Efficacy..165 lm/W

Color temp. (nominal)................6500 K

Optimum cabinet depth...........Single-sided...........5-8"
Double-sided........10-16"

Operating temp.............................-40° C to +60° C

Protection class............................IP66 & IP68*

Binning...MacAdam Ellipse 3-Step (whites)

Fastening...Mounts to existing lampholders
or PrismBEAM²⁴ brackets

Life rating...>60,000 hours

Warranty...10-Year Product / Labor

* PrismBEAM²⁴ IP68 test parameters are 1.3 m submersion for 30 minutes. Do not mount in submerged application or where module will be directly exposed to prolonged flowing or dripping water.

Product Options

	Length	Nominal length	Mods/ assembly	Lumens/ assembly	Whips	Packaging (lamps per carton)	SKU*
SINGLE-SIDED	18"	15.91"	2	420	36"	8	701972-6W24PS181
	24"	21.91"	2	420			701972-6W24PS241
	30"	27.91"	3	630			701972-6W24PS301
	36"	33.91"	3	630			701972-6W24PS361
	42"	39.91"	4	840			701972-6W24PS421
	48"	45.91"	5	1050		16	701972-6W24PS481
	60"	57.91"	6	1260			701972-6W24PS601
	64"	61.91"	6	1260		8	701972-6W24PS641
	72"	69.91"	7	1470	72"	16	701972-6W24PS721
	84"	81.91"	8	1680		8	701972-6W24PS841
	96"	93.91"	9	1890		16	701972-6W24PS961
	108"	105.91"	11	2310			701972-6W24PS1081
	117"	114.91"	12	2520		8	701972-6W24PS1171
	120"	117.91"	12	2520			701972-6W24PS1201
DOUBLE-SIDED	18"	15.91"	8	840	36"	8	701972-6W24PD181
	24"	21.91"	8	840			701972-6W24PD241
	30"	27.91"	12	1260			701972-6W24PD301
	36"	33.91"	14	1260			701972-6W24PD361
	42"	39.91"	16	1680			701972-6W24PD421
	48"	45.91"	18	2100		16	701972-6W24PD481
	60"	57.91"	24	2520			701972-6W24PD601
	64"	61.91"	24	2520		8	701972-6W24PD641
	72"	69.91"	26	2940	72"	16	701972-6W24PD721
	84"	81.91"	32	3360		8	701972-6W24PD841
	96"	93.91"	36	3780		16	701972-6W24PD961
	108"	105.91"	40	4620			701972-6W24PD1081
	117"	114.91"	42	5040		8	701972-6W24PD1171
	120"	117.91"	44	5040			701972-6W24PD1201

Accessories

Bracket
402607-10
Optional – Sold in bags of 10.

Luminous Intensity Distribution
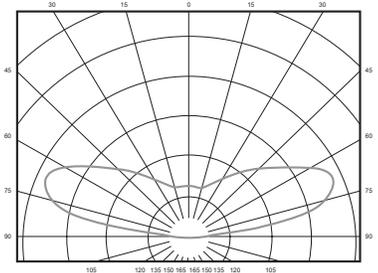
Specifications subject to change without notice.

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We Speak Sign Language

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for new & retrofit sign cabinet applications

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Power Supply Options

24 VDC Power Supply†	Maximum lamps per power supply (single-sided/double-sided)													
	18"	24"	30"	36"	42"	48"	60"	64"	72"	84"	96"	108"	117"	120"
60 W	21 / 10	21 / 10	14 / 7	14 / 7	10 / 5	8 / 4	7 / 3	7 / 3	6 / 3	5 / 2	4 / 2	3 / 1	3 / 1	3 / 1
100 W	36 / 18	36 / 18	24 / 12	24 / 12	18 / 9	14 / 7	12 / 6	12 / 6	10 / 5	9 / 4	8 / 4	6 / 3	6 / 3	6 / 3
Watts/assembly	2.5 / 5.1	2.5 / 5.1	3.8 / 7.6	3.8 / 7.6	5.1 / 10.2	6.4 / 12.7	7.6 / 15.3	7.6 / 15.3	8.9 / 17.8	10.2 / 20.4	11.5 / 22.9	14.0 / 28.0	15.3 / 30.5	15.3 / 30.5

Density Guidelines

Model	Module color	Can Depth	Inches on center
PrismBEAM²⁴ Single-sided	6500 K	4-5"	8"
		5-10"	12"
		10-12"	18"
PrismBEAM²⁴ Double-sided	6500 K	8-10"	8"
		10-20"	12"
		20-24"	18"

Notes:
1) To minimize the potential for shadows/hot spots in applications when using frame support tubes/poles; mount modules or frame support tubes such that the tubes are centered in between modules and at a depth that will not directly interfere with the beam angle of the LEDs. Use SignComp Adjustable Frame Brace (P/N: 5357) or equivalent.
2) It is recommended that you first test the LED density in a sample cabinet to evaluate brightness, uniformity, and color.
3) Should you have questions or require assistance in testing, please contact your Principal Sloan customer service representative.
4) Products can be used in can depths deeper or shallower than listed above, but testing is recommended.

These guidelines are intended to provide only an approximation of PrismBEAM²⁴ product required for your cabinet, assuming an optimal balance of performance and cost. Principal Sloan is not responsible for the actual results based on the use of these guidelines.
All spacing guidelines in this chart were done using 7328 White Acrylic faces. Other materials, thicknesses, and color can affect these guidelines in your sign.
To ensure accuracy, it is recommended that you test the product in your specific application in a dark setting prior to installation. If you have concerns or questions about the materials you are using for your application please contact us for assistance.

10 YEAR
Product & Labor
WARRANTY

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