PHILIPS

Lighting



Mains-voltage linear R7S with very high light output

CorePro LEDlinear MV

CorePro R7S is a retrofit replacement for traditional double-ended linear R7S lamps. Its 'light all around' design delivers light just like a halogen lamp. Within the range you can choose dimmable products which have deep dimming function that enables a cozy ambience when using a dimmable fixture.

Benefits

- Up to 90% energy saving compared to standard halogen lamps
- Lower maintenance costs

Features

- Easy retrofit
- Operates at 220-240 V AC and its form-factor is designed as a direct retrofit into all double ended holders
- Lifetime of 15,000 hours (B50L70)
- UV- and IR-free light
- Free of mercury and hazardous materials – RoHS compliant

Application

- Living rooms, corridors, outdoor luminaires (security lighting), free floor-standing indoor luminaires, construction lighting

CorePro LEDlinear MV

Versions



LED Lamps, CorePro 118 mm R7S



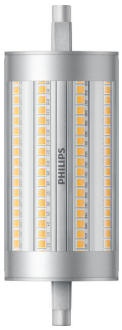
LED Lamps, CorePro 118 mm R7S



CorePro LEDlinear MV 120W R7S 830 Linear



LEDlinear CorePro 7,2W R7S

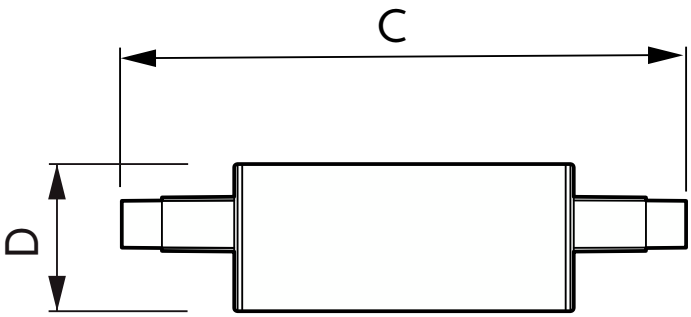


LEDspot R7S 230V



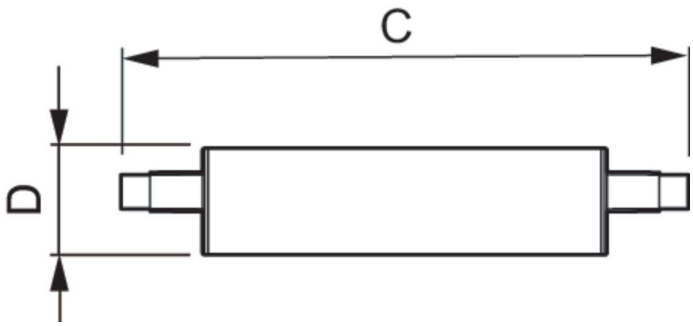
LEDlinear CorePro 7,2W R7S 1

Dimensional drawing



Product	D	C
CorePro LEDlinear ND 7.5-60W R7S 78mm830	29 mm	78 mm
CorePro LEDlinear ND 7.5-60W R7S 78mm840	29 mm	78 mm

Dimensional drawing



Product	D	C
CorePro LED linear D 14-120W R7S 118 830	29 mm	118 mm
CorePro LED linear D 14-120W R7S 118 840	29 mm	118 mm
CorePro R7S 118mm 14-100W 830 D	29 mm	118 mm
CorePro R7S 118mm 14-100W 840 D	29 mm	118 mm
CoreProLED linearD 17.5-150W R7S 118 830	42 mm	118 mm
CoreProLED linearD 17.5-150W R7S 118 840	42 mm	118 mm



Product	D	C
CorePro R7S 118mm 7.2-60W 830	15 mm	118 mm
CorePro R7S 118mm 7.2-60W 840	15 mm	118 mm

General Information	
Cap-Base	R7s
Nominal lifetime	15,000 hour(s)
Light Technical	
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Input Frequency	50 to 60 Hz
Line Frequency	50 to 60 Hz
Starting Time (Nom)	0.5 s

General Information

Order Code	Full Product Name	Switching Cycle
57879700	CorePro LED linear R7S 118mm 14-100W 830 D	50,000
57881000	CorePro LED linear R7S 118mm 14-100W 840 D	50,000
71400300	CorePro LED linear D 14-120W R7S 118 830	50,000
71406500	CorePro LED linear D 14-120W R7S 118 840	50,000
71394500	CorePro LEDlinear ND 7.5-60W R7S 78mm830	50,000

Order Code	Full Product Name	Switching Cycle
71396900	CorePro LEDlinear ND 7.5-60W R7S 78mm840	50,000
30397300	CorePro LED linear R7S 118mm 7.2-60W 830	8,000
64673800	CoreProLED linearD 17.5-150W R7S 118 830	50,000
64675200	CoreProLED linearD 17.5-150W R7S 118 840	50,000
30399700	CorePro LED linear R7S 118mm 7.2-60W 840	8,000

Light Technical

CorePro LEDlinear MV

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color Code	Luminous Flux
57879700	CorePro LED linear R7S 118mm 14-100W 830 D	3000 K	830	1,600 lm
57881000	CorePro LED linear R7S 118mm 14-100W 840 D	4000 K	840	1,800 lm
71400300	CorePro LED linear D 14-120W R7S 118 830	3000 K	830	2,000 lm
71406500	CorePro LED linear D 14-120W R7S 118 840	4000 K	840	2,000 lm
71394500	CorePro LEDlinear ND 7.5-60W R7S 78mm830	3000 K	830	950 lm
71396900	CorePro LEDlinear ND 7.5-60W R7S 78mm840	4000 K	840	1,000 lm
30397300	CorePro LED linear R7S 118mm 7.2-60W 830	3000 K	830	810 lm
64673800	CoreProLED linearD 17.5-150W R7S 118 830	3000 K	830	2,460 lm
64675200	CoreProLED linearD 17.5-150W R7S 118 840	4000 K	840	2,460 lm
30399700	CorePro LED linear R7S 118mm 7.2-60W 840	4000 K	840	850 lm

Operating and Electrical

Order Code	Full Product Name	Power Consumption	Wattage Equivalent
57879700	CorePro LED linear R7S 118mm 14-100W 830 D	14 W	100 W
57881000	CorePro LED linear R7S 118mm 14-100W 840 D	14 W	100 W
71400300	CorePro LED linear D 14-120W R7S 118 830	14 W	120 W
71406500	CorePro LED linear D 14-120W R7S 118 840	14 W	120 W
71394500	CorePro LEDlinear ND 7.5-60W R7S 78mm830	7.5 W	60 W
71396900	CorePro LEDlinear ND 7.5-60W R7S 78mm840	7.5 W	60 W
30397300	CorePro LED linear R7S 118mm 7.2-60W 830	7.2 W	60 W
64673800	CoreProLED linearD 17.5-150W R7S 118 830	17.5 W	150 W
64675200	CoreProLED linearD 17.5-150W R7S 118 840	17.5 W	150 W
30399700	CorePro LED linear R7S 118mm 7.2-60W 840	7.2 W	60 W

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
57879700	CorePro LED linear R7S 118mm 14-100W 830 D	90 °C
57881000	CorePro LED linear R7S 118mm 14-100W 840 D	90 °C
71400300	CorePro LED linear D 14-120W R7S 118 830	100 °C
71406500	CorePro LED linear D 14-120W R7S 118 840	100 °C
71394500	CorePro LEDlinear ND 7.5-60W R7S 78mm830	104 °C
71396900	CorePro LEDlinear ND 7.5-60W R7S 78mm840	104 °C
30397300	CorePro LED linear R7S 118mm 7.2-60W 830	110 °C
64673800	CoreProLED linearD 17.5-150W R7S 118 830	102 °C
64675200	CoreProLED linearD 17.5-150W R7S 118 840	102 °C
30399700	CorePro LED linear R7S 118mm 7.2-60W 840	110 °C

Controls and Dimming

Order Code	Full Product Name	Dimmable
57879700	CorePro LED linear R7S 118mm 14-100W 830 D	Only with specific dimmers
57881000	CorePro LED linear R7S 118mm 14-100W 840 D	Only with specific dimmers
71400300	CorePro LED linear D 14-120W R7S 118 830	Yes
71406500	CorePro LED linear D 14-120W R7S 118 840	Yes
71394500	CorePro LEDlinear ND 7.5-60W R7S 78mm830	No
71396900	CorePro LEDlinear ND 7.5-60W R7S 78mm840	No
30397300	CorePro LED linear R7S 118mm 7.2-60W 830	No
64673800	CoreProLED linearD 17.5-150W R7S 118 830	Only with specific dimmers
64675200	CoreProLED linearD 17.5-150W R7S 118 840	Only with specific dimmers
30399700	CorePro LED linear R7S 118mm 7.2-60W 840	No

Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Bulb Shape
57879700	CorePro LED linear R7S 118mm 14-100W 830 D	-	Linear
57881000	CorePro LED linear R7S 118mm 14-100W 840 D	-	Linear
71400300	CorePro LED linear D 14-120W R7S 118 830	-	Linear
71406500	CorePro LED linear D 14-120W R7S 118 840	-	Linear

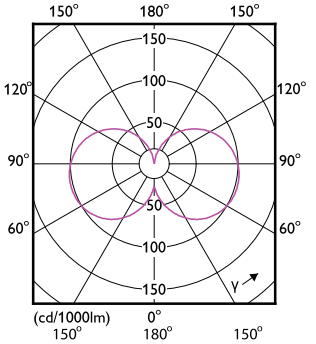
CorePro LEDlinear MV

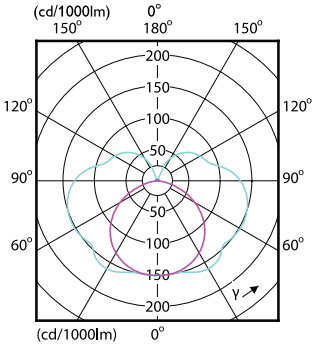
Order Code	Full Product Name	Bulb Finish	Bulb Shape
71394500	CorePro LEDlinear ND 7.5-60W R7S 78mm830	-	Others
71396900	CorePro LEDlinear ND 7.5-60W R7S 78mm840	-	Others
30397300	CorePro LED linear R7S 118mm 7.2-60W 830	Clear	Linear

Order Code	Full Product Name	Bulb Finish	Bulb Shape
64673800	CoreProLED linearD 17.5-150W R7S 118 830	-	Linear
64675200	CoreProLED linearD 17.5-150W R7S 118 840	-	Linear
30399700	CorePro LED linear R7S 118mm 7.2-60W 840	Clear	Linear

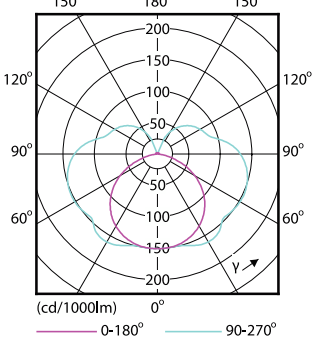
Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
57879700	CorePro LED linear R7S 118mm 14-100W 830 D	14 kWh
57881000	CorePro LED linear R7S 118mm 14-100W 840 D	14 kWh
71400300	CorePro LED linear D 14-120W R7S 118 830	14 kWh
71406500	CorePro LED linear D 14-120W R7S 118 840	14 kWh
71394500	CorePro LEDlinear ND 7.5-60W R7S 78mm830	8 kWh
71396900	CorePro LEDlinear ND 7.5-60W R7S 78mm840	8 kWh
30397300	CorePro LED linear R7S 118mm 7.2-60W 830	8 kWh
64673800	CoreProLED linearD 17.5-150W R7S 118 830	18 kWh
64675200	CoreProLED linearD 17.5-150W R7S 118 840	18 kWh
30399700	CorePro LED linear R7S 118mm 7.2-60W 840	8 kWh

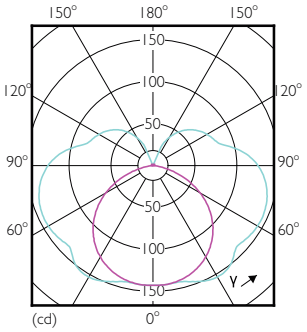




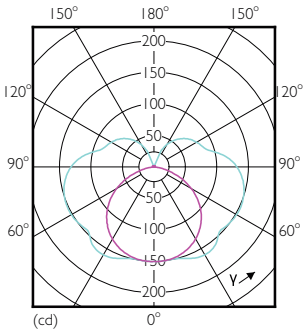
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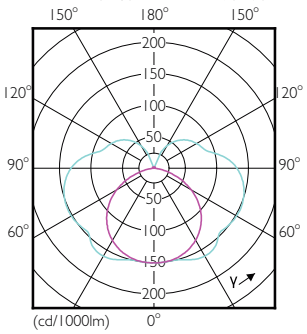
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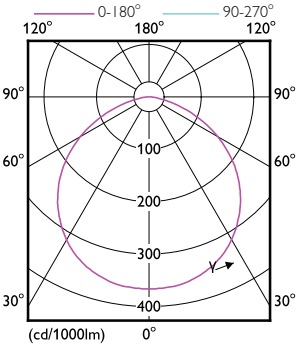
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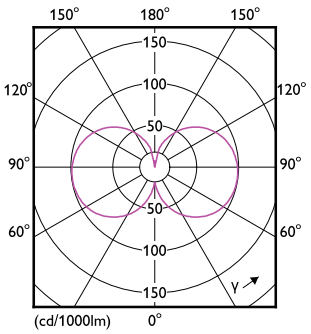
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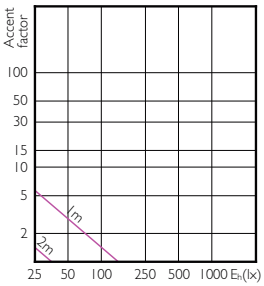
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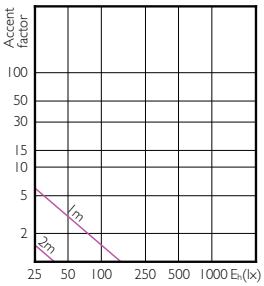
CorePro LEDlinear MV



Accent Diagrams

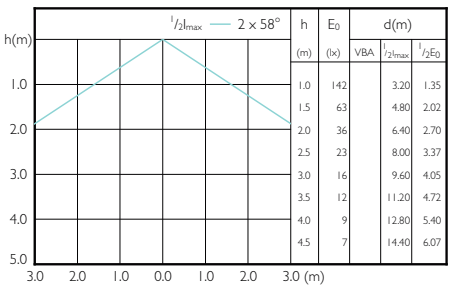


Accent Diagram - CorePro LEDlinear ND 7.5-60W R7S 78mm830



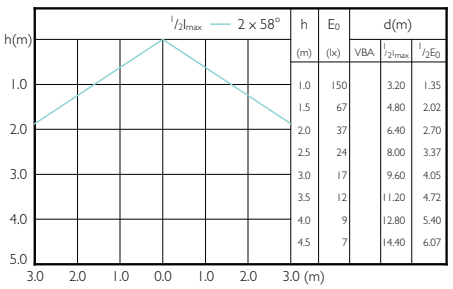
Accent Diagram - CorePro LEDlinear ND 7.5-60W R7S 78mm840

Beam Diagrams



h (m)	E0 (lx)	d(m) VBA	d(m) I/2Imax	d(m) I/2E0
1.0	142		3.20	1.35
1.5	63		4.80	2.02
2.0	36		6.40	2.70
2.5	23		8.00	3.37
3.0	16		9.60	4.05
3.5	12		11.20	4.72
4.0	9		12.80	5.40
4.5	7		14.40	6.07

Beam diagram - CorePro LEDlinear ND 7.5-60W R7S 78mm830



h (m)	E0 (lx)	d(m) VBA	d(m) I/2Imax	d(m) I/2E0
1.0	150		3.20	1.35
1.5	67		4.80	2.02
2.0	37		6.40	2.70
2.5	24		8.00	3.37
3.0	17		9.60	4.05
3.5	12		11.20	4.72
4.0	9		12.80	5.40
4.5	7		14.40	6.07

Beam diagram - CorePro LEDlinear ND 7.5-60W R7S 78mm840

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