

# 20 Linear Direct/Indirect Surface Wall



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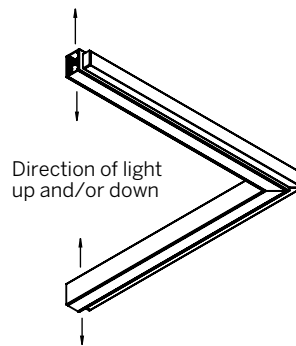
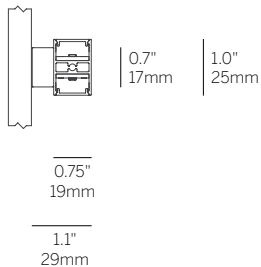
- 1 overview
- 2 specifications / configurator
- 3 photometry



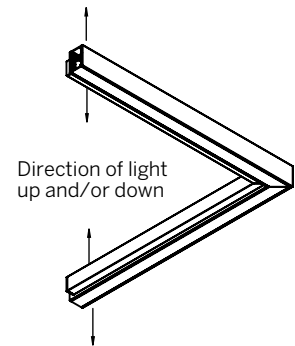
## Miniature wall-mounted Direct, Indirect or Direct / Indirect for perimeter lighting.

**QS** Quick Ship Available

- Wall mounted fixture with minimal housing for continuous mounting to any desired length (1/4" increments).
- Multiple lenses for general, accent, decorative and grazing application.
- Extruded aluminum housing, easily installed. Field maintainable and upgradeable LED and driver without upsetting the ceiling.
- Efficacy up to 79 (Direct) | 94 (Indirect) lumens per watt (delivered) @ 3000K, see photometry page for details.
- 90+ CRI, 3 Step MacAdam (Static White).
- L70 (TM21 Projected 85C) Static White 60,000 hours, RGBW 50,000 hours, WD 36,000 hours.
- ETL and ETL-C for dry and damp locations.
- Lengths and angles factory-cut to exact field dimensions. Standard and custom corners.
- Powdercoat painted.



Pattern Inside (PI)



Pattern Outside (PO)

Ordering Information													
Model	Fixation	Pattern	Length	Direct				Indirect				Finish	Options
				Power <sup>2</sup>	CRI/CCT <sup>3</sup>	Driver <sup>4</sup>	Lens	Power <sup>2</sup>	CRI/CCT <sup>3</sup>	Driver <sup>4</sup>	Lens		
WG-20LDI direct/indirect	SW	S PI <sup>1</sup> PO <sup>1</sup>	A A x B A x B x C A x B x A x B	L M H	927 930 935 940 WD RGBW	X S D010 DPH L3DAE L3DOE EL96 DALI DMX	OD (std) MPL NL16	L M H	927 930 935 940 WD RGBW	X S D010 DPH L3DAE L3DOE EL96 DALI DMX	OD (std) SD	W (std) B S F	AWNRF BT DC EM

### Model

- WG-20LDI = 20 Linear Direct/Indirect Surface Wall Mount
- WG-20LD = 20 Linear Direct Surface Wall Mount
- WG-20LI = 20 Linear Indirect Surface Wall Mount

### Fixation

- SW = Surface wall mount

### Pattern

- S = Straight run
- PI = Standard patterns 2, 3 or 4 sided with 90° inside corners on the same plane<sup>1</sup>
- PO = Standard patterns 2, 3 or 4 sided with 90° outside corners on the same plane<sup>1</sup>

### Length

- A, B, C = specify inches to the nearest 0.25" (i.e. 72.25")  
For patterns specify each length (i.e. 2 sided: A x B = 72.25" x 48"; 3 sided: A x B x C; 4 sided: A x B x A x B)

### Power<sup>2</sup>

- L = 3W/ft low power (WD 2.7 W/ft) (24V)
- M = 6W/ft mid power (WD 5.5 W/ft) (24V) (RGBW - 7.6 W/ft)
- H = 10W/ft high power (WD 8 W/ft) (24V)

### CRI / CCT (90+ CRI minimum)<sup>3</sup>

- 927 = 2700K
- 930 = 3000K
- 935 = 3500K
- 940 = 4000K
- WD = Warm Dimming (1800K - 3000K)
- RGBW = 3000K White (M power only)

### Driver (remote)<sup>4</sup>

- X = No driver, ordered separately
- S = Standard, non-dim driver 120-277V
- D010 = eldoLED, 10%, 0-10V dimming, 120-277V
- DPH = Phase Dimming, 1% dimming, 120V only
- L3DAE = Lutron Hi-lume 1% EcoSystem, 120-277V
- L3DOE = Lutron Hi-lume Premier 0.1% EcoSystem, 120-277V
- EL96 = eldoLED, 24V, 0.1% 0-10V Dimming
- DALI = eldoLED DALI (DT6), 0.1% dimming (120-277V)
- DMX = eldoLED, 24V, 0.1% DMX Dimming

### Lens

- OD = Satin opal diffuser (standard)
- SD = Satin clear diffuser
- MPL = Micro-prismatic lens
- NL16 = Linear narrow lens, 16°

### Finish

- W = White, 15% gloss, RAL 9010 (standard)
- B = Black, 15% gloss, RAL 9005
- S = Silver, 15% gloss, RAL 9006
- F = Custom finished trim, specify RAL

### Options

- AWNRF = Lutron Athena Wireless Node RF (specify with D010, EL96, or DALI)
- BT = Wireless CAS – Casambi (specify with D010, EL96, DALI or DMX)
- DC = Dual circuit
- EM = Emergency (remote)

- 1 See pattern spec sheet.
- 2 Wattage is shown for LED boards only, system wattage varies depending on driver selected. Maximum combined wattage for Direct + Indirect shall not exceed 13 W/ft.
- 3 When specifying 20LDI please specify CRI / CCT and Driver for Direct and Indirect if different CRI / CCT / Driver is needed, i.e. 930-M-OD-D010-RGBW-M-SD-DMX. See photometric data sheet for delivered lumens.
- 4 Remote power supply required. See power supply page for details.

### Lenses/Accessories



Opal Diffuser (OD)  
Satin Diffuser (SD)

Micro-prismatic Lens (MPL)



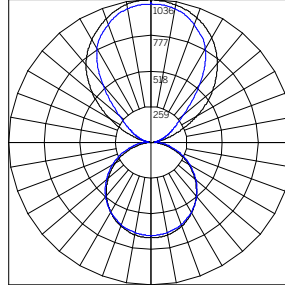
Narrow Lens (NL16)

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## DIRECT / INDIRECT

**WG-20LDI-...-M-...-OD-M-...-SD**  
Delivered Lumens Per Foot

		Power			
		L [3 W/ft]	M [6 W/ft]	H [10 W/ft]	RGBW [7.6 W/ft]
CCT	927	419	838	-	-
	930	456	911	-	-
	935	540	1082	-	-
	940	643	1285	-	-
	WD <sup>2</sup>	160	333	482	-
	RGBW <sup>3</sup>	-	-	-	272
UGR <sup>4</sup>		24.3	26.8	-	-



BEAM ANGLE (0-180) = 82.8  
BEAM ANGLE (90-270) = 106.8

**ILLUMINANCE - 48" OD/SD M 3500**  
**WG-20LDI-...-S-48-M-935-...-OD-M-935-...-SD-W<sup>1</sup>**

Mounting Height [ft]	Illuminance [fc at max cd]	Beam Width [ft]
2	259	3.5
4	65	7.1
6	29	10.6
8	16	14.1
10	10	17.6
12	7	21.2
14	5	24.7
16	4	28.2
18	3	31.7
20	3	35.3

Power Multiplier				
	L [3 W/ft]	M [6 W/ft]	H [10 W/ft]	RGBW [7.6 W/ft]
9XX/RGBW	0.5	1.00	-	-
WD	0.30	0.62	-	-

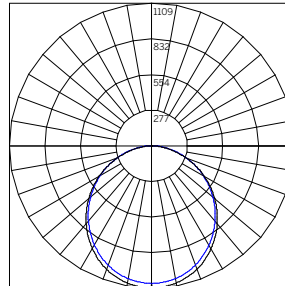
CCT Multiplier				
	927	930	935	940
	0.77	0.84	1.00	1.19

- 1 Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.
- 2 WD lumen data at maximum output (3000K).
- 3 RGBW lumen data at maximum output with 3000K White LED.
- 4 UGR value noted is the maximum UGR (crosswise) with 935 LEDs / 48" length.

## DIRECT

**WG-20LD-...-OD-X-XXX-X-XX-W**  
Delivered Lumens Per Foot

		Power		
		L [3 W/ft]	M [6 W/ft]	H [10 W/ft]
CCT	927	176	352	617
	930	192	383	670
	935	227	455	796
	940	270	540	946
	WD <sup>2</sup>	135	280	405
	UGR <sup>3</sup>		26.7	29.3



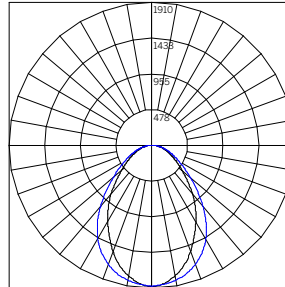
BEAM ANGLE (0-180) = 110.3  
BEAM ANGLE (90-270) = 110.4

**ILLUMINANCE - 48" OD H 3500K**  
**WG-20LD-...-S-48-H-935-...-OD-X-XXX-X-XX-W<sup>1</sup>**

Mounting Height [ft]	Illuminance [fc at max cd]	Beam Width [ft]
2	227	5.7
4	69	11.5
6	31	17.2
8	17	23
10	11	28.7
12	8	34.5
14	6	40.2
16	4	46
18	3	51.7
20	3	57.5

**WG-20LD-...-MPL-X-XXX-X-XX-W**  
Delivered Lumens Per Foot

		Power		
		L [3 W/ft]	M [6 W/ft]	H [10 W/ft]
CCT	927	209	418	731
	930	227	454	795
	935	270	540	944
	940	321	641	1122
	WD <sup>2</sup>	160	332	480
	UGR <sup>3</sup>		26.3	28.9



BEAM ANGLE (0-180) = 85.5  
BEAM ANGLE (90-270) = 73.8

**ILLUMINANCE - 48" MPL H 3500K**  
**WG-20LD-...-S-48-H-935-...-MPL-X-XXX-X-XX-W<sup>1</sup>**

Mounting Height [ft]	Illuminance [fc at max cd]	Beam Width [ft]
2	478	3.7
4	119	7.4
6	53	11.1
8	30	14.8
10	19	18.5
12	13	22.2
14	10	25.9
16	7	29.6
18	6	33.3
20	5	37

Power Multiplier			
	L [3 W/ft]	M [6 W/ft]	H [10 W/ft]
9XX	0.29	0.57	1.00
WD	0.17	0.35	0.51

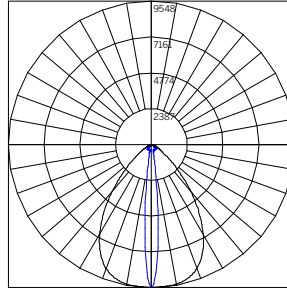
CCT Multiplier				
	927	930	935	940
	0.77	0.84	1.00	1.19

- 1 Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.
- 2 WD lumen data at maximum output (3000K).
- 3 UGR value noted is the maximum UGR (crosswise) with 935 LEDs / 48" length.

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## DIRECT

WG-20LD-...-NL16-X-XXX-X-XX-W Delivered Lumens Per Foot				
		Power		
		L [3 W/ft]	M [6 W/ft]	H [10 W/ft]
CCT	927	207	414	725
	930	225	450	787
	935	267	535	936
	940	318	635	1112
	WD <sup>2</sup>	158	329	476
UGR <sup>3</sup>		17.8	20.3	22.1



BEAM ANGLE (0-180) = 10.4  
BEAM ANGLE (90-270) = 75.1

ILLUMINANCE - 48" NL16 H 3500K WG-20LD-...-S-48-H-935-...-NL16-X-XXX-X-XX-W <sup>1</sup>		
Mounting Height [ft]	Illuminance [fc at max cd]	Beam Width [ft]
2	2387	0.4
4	597	0.7
6	265	1.1
8	149	1.5
10	95	1.8
12	66	2.2
14	49	2.6
16	37	2.9
18	29	3.3
20	24	3.7

Power Multiplier			
	L [3 W/ft]	M [6 W/ft]	H [10 W/ft]
9XX	0.29	0.57	1.00
WD	0.17	0.35	0.51

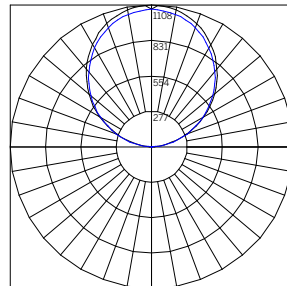
  

CCT Multiplier				
	927	930	935	940
	0.77	0.84	1.00	1.19

- 1 Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.
- 2 WD lumen data at maximum output (3000K).
- 3 UGR value noted is the maximum UGR (crosswise) with 935 LEDs / 48" length.

## INDIRECT

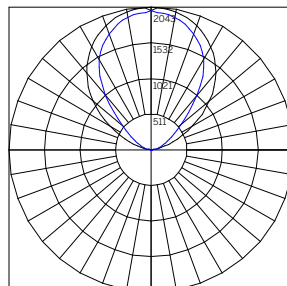
WG-20LI-...-X-XXX-X-XX-...-OD-W Delivered Lumens Per Foot					
		Power			
		L [3 W/ft]	M [6 W/ft]	H [10 W/ft]	RGBW [7.6 W/ft]
CCT	927	176	352	617	-
	930	192	383	670	-
	935	227	455	796	-
	940	270	540	946	-
	WD <sup>2</sup>	135	280	405	-
	RGBW <sup>3</sup>	-	-	-	229
UGR <sup>4</sup>		-	-	-	-



BEAM ANGLE (0-180) = 110.1  
BEAM ANGLE (90-270) = 110.1

ILLUMINANCE - 48" OD H 3500K WG-20LI-...-S-48"-X-XXX-X-XX-H-935-...-OD-W <sup>1</sup>		
Offset Distance [ft]	Illuminance [fc at max cd]	Beam Width [ft]
2	277	5.7
4	69	11.4
6	31	17.2
8	17	22.9
10	11	28.6
12	8	34.3
14	6	40.1
16	4	45.8
18	3	51.5
20	3	57.2

WG-20LI-...-X-XXX-X-XX-...-SD-W Delivered Lumens Per Foot					
		Power			
		L [3 W/ft]	M [6 W/ft]	H [10 W/ft]	RGBW [7.6 W/ft]
CCT	927	248	495	867	-
	930	270	538	942	-
	935	319	640	1119	-
	940	380	760	1330	-
	WD <sup>2</sup>	190	394	569	-
	RGBW <sup>3</sup>	-	-	-	322
UGR <sup>4</sup>		-	-	-	-



BEAM ANGLE (0-180) = 80.2  
BEAM ANGLE (90-270) = 100.7

ILLUMINANCE - 48" SD H 3500K WG-20LI-...-S-48-X-XXX-X-XX-H-935-...-SD-W <sup>1</sup>		
Offset Distance [ft]	Illuminance [fc at max cd]	Beam Width [ft]
2	511	3.4
4	128	6.7
6	57	10.1
8	32	13.5
10	20	16.8
12	14	20.2
14	10	23.6
16	8	26.9
18	6	30.3
20	5	33.7

Power Multiplier				
	L [3 W/ft]	M [6 W/ft]	H [10 W/ft]	RGBW [7.6 W/ft]
9XX/RGBW	0.29	0.57	1.00	0.29
WD	0.17	0.35	0.51	-

CCT Multiplier				
	927	930	935	940
	0.77	0.84	1.00	1.19

- 1 Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.
- 2 WD lumen data at maximum output (3000K).
- 3 RGBW lumen data at maximum output with 3000K White LED.
- 4 UGR value noted is the maximum UGR (crosswise) with 935 LEDs / 48" length.