

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The 2GTL LED recessed troffer offers a wide range of lumen packages, color temperatures, and lens options to meet the lighting needs for a wide range of applications such as schools, offices, and hospitals. The light engine delivers long life and excellent color to ensure a sound quality, low-maintenance lighting installation. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

**CONSTRUCTION** — Housing formed from 22 gauge cold-rolled steel. Smooth hemmed sides and smooth inward formed end flanges for safe handling. Includes integral T-bar clips. Lighter-weight fixture allows for safe, easy installation.

**OPTICS** — Highly transmissive pattern #12 lens diffuses the light source without compromising output. Pattern # 19 and satin white lens options also available.

**ELECTRICAL** — Long-life LEDs, coupled with high-efficiency drivers, provide extended service life. 80% LED lumen maintenance at 72,000 hours (L80/72,000).

elDoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional nLight® embedded controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices and the GTL luminaires using standard Cat-5 cabling. Unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission. Lumen Management: Unique lumen management system (option N80) provides onboard intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

The step-level dimming option (SLD) allows the system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Ballast disconnect is provided where required to comply with U.S. and Canadian codes.

**INSTALLATION** — LED boards include plug-in connectors for easy of upgradeability. Suitable for direct insulation contact. Suitable for damp location.

**LISTINGS** — CSA certified to meet U.S. and Canadian standards. IC rated. DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

Catalog Number
Notes
Type



GTL Series

# 2GTL

2' x 4'

LED Recessed Troffer

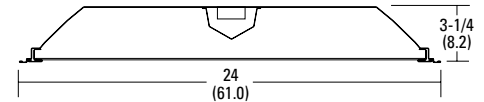


### Specifications

Length: 48 (122.0)

Width: 24 (61.0)

Depth: 3-1/4 (8.2)



All dimensions are inches (centimeters) unless otherwise indicated.

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background**\*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a **shaded background**\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

# 2GTL LED Troffer



A+ Capable options indicated by this color background.

## ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

**Example:** 2GTL 4 48L GZ10 LP835

2GTL Series	Trim type	Length	Lumens <sup>1</sup>	Door	Lens	Voltage
2GTL 2' wide recessed LED luminaire	(blank) Grid F Overlapping flange	4 4'	30L 3000 lumens 40L 4000 lumens 48L 4800 lumens 60L 6000 lumens 72L 7200 lumens 88L 8800 lumens 100L 10000 lumens 140L 14000 lumens <sup>2</sup>	(blank) Flush steel, white FN Flush aluminum, natural FM Flush aluminum, matte black FW Flush aluminum, white RN Regressed aluminum, natural RM Regressed aluminum, matte black RW Regressed aluminum, white	(blank) #12 pattern acrylic, 0.110" thick A12125 #12 pattern acrylic, frosted, .125" thick A19 #19 pattern acrylic, 0.156" thick SWL Satin white	(blank) MVOLT (120-277V) 120 120V 277 277V 347 347V <sup>3</sup>

Driver	Color temperature	Controls <sup>6</sup>	Options
EZ1 eldoLED dims to 1%	LP830 3000 K	(blank) No controls	EL7L 700 lumen emergency battery (non-CEC compliant) <sup>5,7,8</sup>
GZ10 Dims to 10% (0-10V dimming)	LP835 3500 K	N80 nLight with 80% (L80) lumen management	EL14L 1400 lumen emergency battery (non-CEC compliant) <sup>5,7,8</sup>
GZ1 Dims to 1% (0-10V dimming)	LP840 4000 K	N80EMG nLight with 80% (L80) lumen management for use with generator supply emergency power	E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, CEC compliant <sup>5,7,8</sup>
SLD Step-level dimming <sup>4,5</sup>	LP850 5000 K	N100 nLight without lumen management	BGTD Bodine Generator Transfer Device <sup>9,10,11</sup>
EXA1 eldoLED dims to 1%, XPoint wireless enabled		N100EMG nLight without lumen management for use with generator supply emergency power	CP Chicago plenum
			PWS1836 6' pre-wire, 3/8" diameter, 18-gauge, 1-circuit
			PWS1846 6' pre-wire, 3/8" diameter, 18-gauge, 2-circuit
			ABC Door frame gasketing <sup>12</sup>
			GLR Fast-blowing fuse <sup>13</sup>
			GMF Slow-blowing fuse <sup>13</sup>
			LATC Earthquake clip
			NPLT Narrow pallet
			PAF Paint after fab

Accessories: Order as separate catalog number.	
DGA24	Drywall grid adapter for 2x4 recessed fixture.
2X4SMK	Surface Mount Troffer Kit.

### Notes

- 1 Approximate lumen output. Lumen output will vary depending upon lens option chosen.
- 2 Not available with GZ10.
- 3 Not available with SLD, EL7L, EL14L, E10WLCP or BGTD.
- 4 Not available with 100L and 140L.
- 5 When using pre-wire option, use PWS1846.
- 6 Not available with SLD, GZ1, GZ10 or EXA1.
- 7 Not available with SLD or GZ1 or GZ10 or EXA1 when combined with any of the following lumen packages: 72L, 88L, 100L or 140L.
- 8 Not available with EZ1 when combined with 100L or 140L lumen packages.

9 Not Available with SLD

10 Not Available with EXA1 or Controls options when ordered in combination with 100L or 140L lumen packages.

11 Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options. Example: BGTD BSE10.

12 Only available with aluminum door.

13 Must specify voltage, 120 or 277.

14 For CEC (T20) compliant option, substitute EL14L option with E10WLCP "EM self-diagnostic battery pack 10W constant power, CEC compliant".

Stock/Non-configurable models are offered for shorter lead times:

## ORDERING INFORMATION

Catalog Number	UPC	Description	Lumens	Color Temperature	Voltage	Wattage	Pallet qty.	Standard carton qty.
2GTL4 4400LM LP835	889804706598	2x4 LED lay-in troffer	4391	3500K	120-277	34.10	28	1
2GTL4 4400LM LP840	889804706956	2x4 LED lay-in troffer	4567	4000K	120-277	34.10	28	1
2GTL4 4400LM 347 LP835	889804710243	2x4 LED lay-in troffer, 347v	4391	3500K	347	38.11	28	1
2GTL4 4400LM 347 LP840	889804710359	2x4 LED lay-in troffer, 347v	4567	4000K	347	38.11	28	1
2GTL4 4400LM EL14L LP835 <sup>14</sup>	889804710045	2x4 LED lay-in troffer, emergency battery	4391	3500K	120-277	34.10	28	1
2GTL4 4400LM EL14L LP840 <sup>14</sup>	889804710205	2x4 LED lay-in troffer, emergency battery	4567	4000K	120-277	34.10	28	1
2GTL4 5000LM LP835	889804710366	2x4 LED lay-in troffer	4867	3500K	120-277	38.79	28	1
2GTL4 5000LM LP840	889804710458	2x4 LED lay-in troffer	5062	4000K	120-277	38.79	28	1
2GTL4 5000LM 347 LP835	889804710489	2x4 LED lay-in troffer, 347v	4867	3500K	347	42.78	28	1
2GTL4 5000LM 347 LP840	889804710595	2x4 LED lay-in troffer, 347v	5062	4000K	347	42.78	28	1
2GTL4 5000LM EL14L LP835 <sup>14</sup>	889804710625	2x4 LED lay-in troffer, emergency battery	4867	3500K	120-277	38.79	28	1
2GTL4 5000LM EL14L LP840 <sup>14</sup>	889804710700	2x4 LED lay-in troffer, emergency battery	5062	4000K	120-277	38.79	28	1

Performance Data			
Lumen Package	Lumens	Input Watts	LPW
30L LP830	2923.34	23.3	125
30L LP835	2983	23.3	128
30L LP840	3102.32	23.3	133
30L LP850	3161.98	23.3	136
40L LP830	3843.56	29.83	129
40L LP835	3922	29.83	131
40L LP840	4078.88	29.83	137
40L LP850	4157.32	29.83	139
48L LP830	4681.46	35.79	131
48L LP835	4777	35.79	133
48L LP840	4968.08	35.79	139
48L LP850	5063.62	35.79	141
60L LP830	6093.64	48.82	125
60L LP835	6218	48.82	127
60L LP840	6466.72	48.82	132
60L LP850	6591.08	48.82	135
72L LP830	7203.98	53.32	135
72L LP835	7351	53.32	138
72L LP840	7645.04	53.32	143
72L LP850	7792.06	53.32	146
88L LP830	8563.24	65	132
88L LP835	8738	65	134
88L LP840	9087.52	65	140
88L LP850	9262.28	65	143
100L LP830	10449.74	82.75	126
100L LP835	10663	82.75	129
100L LP840	11089.52	82.75	134
100L LP850	11302.78	82.75	137
140L LP830	13306.44	110.25	121
140L LP835	13578	110.25	123
140L LP840	14121.12	110.25	128
140L LP850	14392.68	110.25	131

**Note:** Performance based on standard #12 pattern acrylic lens.

### How to Estimate Delivered Lumens in Emergency Mode

Use the formula below to estimate the delivered lumens in emergency mode

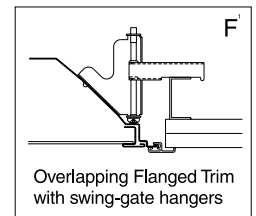
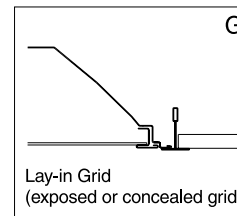
$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

P = Output power of emergency driver. P = 10W for E10WLCP option.

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet. LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

### MOUNTING DATA

Continuous row mounting of flanged units requires CRE and CRM trim options (see Options).

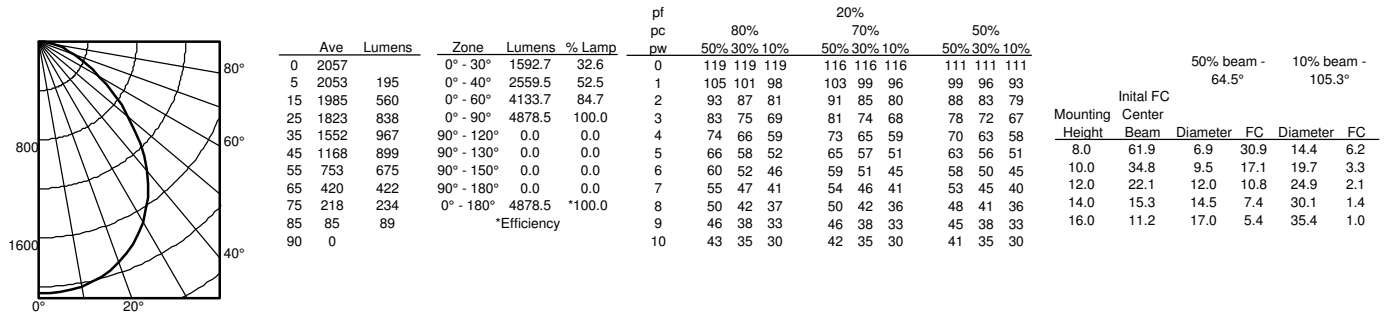


NOTE:

- 1 Recommended rough-in dimensions for F-trim fixtures 24" x 48" (Tolerance is +1/4"-0"). Swing-gate range 1-3/16" to 3-15/16". Swing-gate span 23-3/8" to 26-11/16". Fixture swing-gate points require additional 1-1/16" over nominal fixture height.

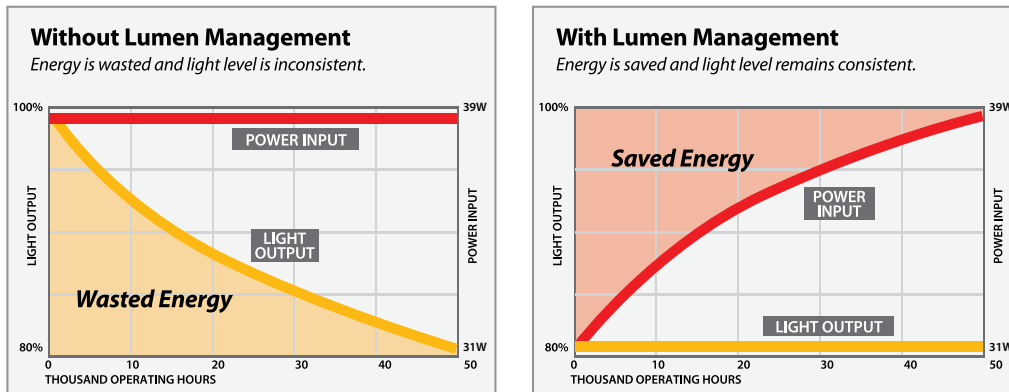
## PHOTOMETRICS

2GTL 4 48L LP835, 4878 delivered lumens, test no. ISF 36875P10, tested in accordance to IESNA LM-79.



## Constant Lumen Management

Enabled by the embedded nLight control, the GTL actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.



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Catalog Number
Notes
Type



GTL Series

# 2GTL

2' x 4'

LED Recessed Troffer

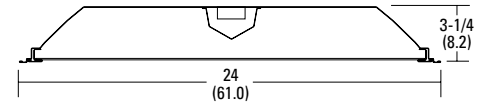


### Specifications

Length: 48 (122.0)

Width: 24 (61.0)

Depth: 3-1/4 (8.2)



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### A+ Capable Luminaire

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# 2GTL LED Troffer



A+ Capable options indicated by this color background.

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**Example:** 2GTL 4 48L GZ10 LP835

2GTL Series	Trim type	Length	Lumens <sup>1</sup>	Door	Lens	Voltage
2GTL 2' wide recessed LED luminaire	(blank) Grid F Overlapping flange	4 4'	30L 3000 lumens 40L 4000 lumens 48L 4800 lumens 60L 6000 lumens 72L 7200 lumens 88L 8800 lumens 100L 10000 lumens 140L 14000 lumens <sup>2</sup>	(blank) Flush steel, white FN Flush aluminum, natural FM Flush aluminum, matte black FW Flush aluminum, white RN Regressed aluminum, natural RM Regressed aluminum, matte black RW Regressed aluminum, white	(blank) #12 pattern acrylic, 0.110" thick A12125 #12 pattern acrylic, frosted, .125" thick A19 #19 pattern acrylic, 0.156" thick SWL Satin white	(blank) MVOLT (120-277V) 120 120V 277 277V 347 347V <sup>3</sup>

Driver	Color temperature	Controls <sup>6</sup>	Options
EZ1 eldoLED dims to 1%	LP830 3000 K	(blank) No controls	EL7L 700 lumen emergency battery (non-CEC compliant) <sup>5,7,8</sup>
GZ10 Dims to 10% (0-10V dimming)	LP835 3500 K	N80 nLight with 80% (L80) lumen management	EL14L 1400 lumen emergency battery (non-CEC compliant) <sup>5,7,8</sup>
GZ1 Dims to 1% (0-10V dimming)	LP840 4000 K	N80EMG nLight with 80% (L80) lumen management for use with generator supply emergency power	E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, CEC compliant <sup>5,7,8</sup>
SLD Step-level dimming <sup>4,5</sup>	LP850 5000 K	N100 nLight without lumen management	BGTD Bodine Generator Transfer Device <sup>9,10,11</sup>
EXA1 eldoLED dims to 1%, XPoint wireless enabled		N100EMG nLight without lumen management for use with generator supply emergency power	CP Chicago plenum
			PWS1836 6' pre-wire, 3/8" diameter, 18-gauge, 1-circuit
			PWS1846 6' pre-wire, 3/8" diameter, 18-gauge, 2-circuit
			ABC Door frame gasketing <sup>12</sup>
			GLR Fast-blowing fuse <sup>13</sup>
			GMF Slow-blowing fuse <sup>13</sup>
			LATC Earthquake clip
			NPLT Narrow pallet
			PAF Paint after fab

Accessories: Order as separate catalog number.	
DGA24	Drywall grid adapter for 2x4 recessed fixture.
2X4SMK	Surface Mount Troffer Kit.

### Notes

- 1 Approximate lumen output. Lumen output will vary depending upon lens option chosen.
- 2 Not available with GZ10.
- 3 Not available with SLD, EL7L, EL14L, E10WLCP or BGTD.
- 4 Not available with 100L and 140L.
- 5 When using pre-wire option, use PWS1846.
- 6 Not available with SLD, GZ1, GZ10 or EXA1.
- 7 Not available with SLD or GZ1 or GZ10 or EXA1 when combined with any of the following lumen packages: 72L, 88L, 100L or 140L.
- 8 Not available with EZ1 when combined with 100L or 140L lumen packages.

9 Not Available with SLD

10 Not Available with EXA1 or Controls options when ordered in combination with 100L or 140L lumen packages.

11 Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options. Example: BGTD BSE10.

12 Only available with aluminum door.

13 Must specify voltage, 120 or 277.

14 For CEC (T20) compliant option, substitute EL14L option with E10WLCP "EM self-diagnostic battery pack 10W constant power, CEC compliant".

Stock/Non-configurable models are offered for shorter lead times:

## ORDERING INFORMATION

Catalog Number	UPC	Description	Lumens	Color Temperature	Voltage	Wattage	Pallet qty.	Standard carton qty.
2GTL4 4400LM LP835	889804706598	2x4 LED lay-in troffer	4391	3500K	120-277	34.10	28	1
2GTL4 4400LM LP840	889804706956	2x4 LED lay-in troffer	4567	4000K	120-277	34.10	28	1
2GTL4 4400LM 347 LP835	889804710243	2x4 LED lay-in troffer, 347v	4391	3500K	347	38.11	28	1
2GTL4 4400LM 347 LP840	889804710359	2x4 LED lay-in troffer, 347v	4567	4000K	347	38.11	28	1
2GTL4 4400LM EL14L LP835 <sup>14</sup>	889804710045	2x4 LED lay-in troffer, emergency battery	4391	3500K	120-277	34.10	28	1
2GTL4 4400LM EL14L LP840 <sup>14</sup>	889804710205	2x4 LED lay-in troffer, emergency battery	4567	4000K	120-277	34.10	28	1
2GTL4 5000LM LP835	889804710366	2x4 LED lay-in troffer	4867	3500K	120-277	38.79	28	1
2GTL4 5000LM LP840	889804710458	2x4 LED lay-in troffer	5062	4000K	120-277	38.79	28	1
2GTL4 5000LM 347 LP835	889804710489	2x4 LED lay-in troffer, 347v	4867	3500K	347	42.78	28	1
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2GTL4 5000LM EL14L LP835 <sup>14</sup>	889804710625	2x4 LED lay-in troffer, emergency battery	4867	3500K	120-277	38.79	28	1
2GTL4 5000LM EL14L LP840 <sup>14</sup>	889804710700	2x4 LED lay-in troffer, emergency battery	5062	4000K	120-277	38.79	28	1

Performance Data			
Lumen Package	Lumens	Input Watts	LPW
30L LP830	2923.34	23.3	125
30L LP835	2983	23.3	128
30L LP840	3102.32	23.3	133
30L LP850	3161.98	23.3	136
40L LP830	3843.56	29.83	129
40L LP835	3922	29.83	131
40L LP840	4078.88	29.83	137
40L LP850	4157.32	29.83	139
48L LP830	4681.46	35.79	131
48L LP835	4777	35.79	133
48L LP840	4968.08	35.79	139
48L LP850	5063.62	35.79	141
60L LP830	6093.64	48.82	125
60L LP835	6218	48.82	127
60L LP840	6466.72	48.82	132
60L LP850	6591.08	48.82	135
72L LP830	7203.98	53.32	135
72L LP835	7351	53.32	138
72L LP840	7645.04	53.32	143
72L LP850	7792.06	53.32	146
88L LP830	8563.24	65	132
88L LP835	8738	65	134
88L LP840	9087.52	65	140
88L LP850	9262.28	65	143
100L LP830	10449.74	82.75	126
100L LP835	10663	82.75	129
100L LP840	11089.52	82.75	134
100L LP850	11302.78	82.75	137
140L LP830	13306.44	110.25	121
140L LP835	13578	110.25	123
140L LP840	14121.12	110.25	128
140L LP850	14392.68	110.25	131

**Note:** Performance based on standard #12 pattern acrylic lens.

### How to Estimate Delivered Lumens in Emergency Mode

Use the formula below to estimate the delivered lumens in emergency mode

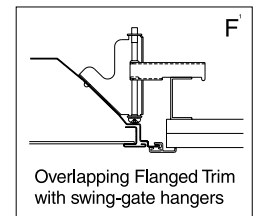
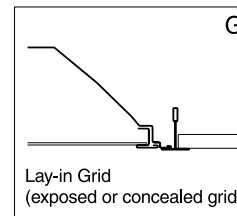
$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

P = Output power of emergency driver. P = 10W for E10WLCP option.

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet. LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

### MOUNTING DATA

Continuous row mounting of flanged units requires CRE and CRM trim options (see Options).

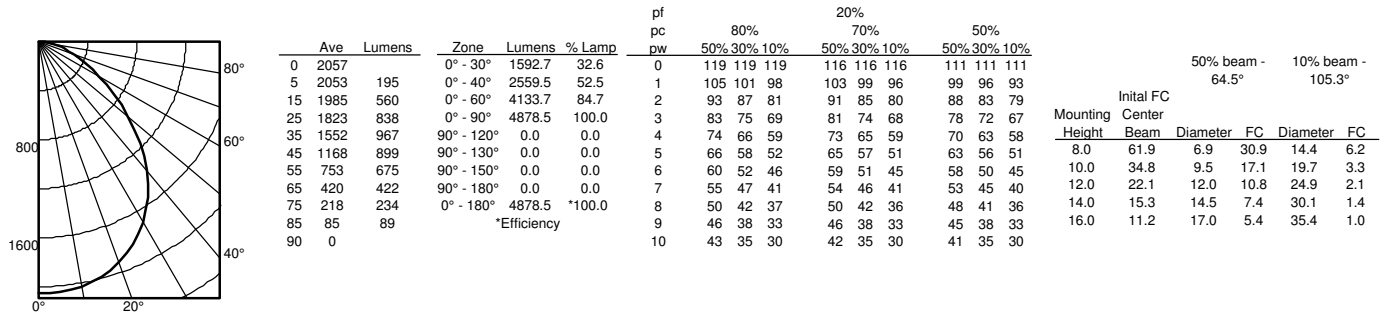


NOTE:

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## PHOTOMETRICS

2GTL 4 48L LP835, 4878 delivered lumens, test no. ISF 36875P10, tested in accordance to IESNA LM-79.



## Constant Lumen Management

Enabled by the embedded nLight control, the GTL actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.

