

Addendum #1 – 8/1/2025

LED Retrofit & Lighting

The following additions/updates have been included in a revised Invitation to Bid available in the Notices section at <https://mppl.org/about-us/transparency/>.

1. **Updated Exhibit B** to include an acknowledgement of Addendum #1 – 8/1/2025.
2. **Added to Section C Preparation and Submission of Bids:** All bid amounts must be inclusive of applicable ComEd incentives. Vendors are required to apply any eligible ComEd energy efficiency incentives to their pricing, and the final bid submitted shall reflect the net cost to the Owner after such incentives have been applied.
3. **Added to Exhibit A Technical Specifications – Project Requirements:** All installed products are expected to be set to 3500K and 700-1000LM, however, prior to the commencement of work, the library will confirm specifications for the required lumen output and color temperature for each lighting fixture.
4. **Added to Exhibit A Technical Specifications – Existing Environment:**
 - a. Our existing lighting control system is ILC LightMaster.
 - b. Our existing lamp codes (lamp stamps) are:
 - i. ProLume Eco-Shield F39T5/835/HO/ECO/IC (34")
 - ii. Sylvania Pentron FP54/835/HO/ECO (T5 4ft)
 - iii. GE Ecolux F32T8/SPX35/ECO2 (T8 4ft)
 - iv. GE Ecolux F25T8/SP35/ECO (T8 3ft)
 - v. GE Ecolux F32T8 U6 SP35 ECO
 - vi. LumaPro F31T8/835/U 3500K 5NPL8
 - c. Meeting Rooms A and B have existing dimming Lutron ballasts in the upper soffit only. There are (28) 2-lamp T8 4ft fixtures in Meeting Room A. There are (10) 2-lamp T8 fixtures in Meeting Room B that use ballast Eco-10, 10% electric fluorescent dimming ballast, ECO-T832-120-2, Lutron. The fixtures/ballasts listed above for Meeting Rooms A and B are included in the table "Lighting Table Specifications."
 - d. The July 15, 2025 ComEd bill shows 7881.2 KWH used. See Exhibit G for a copy of the bill.

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5. The Lighting Product Specifications table in Exhibit A Technical Specifications was replaced with the following updated table:

ID	Existing Fixture	Estimated Lower Area Qty	Estimated Upper Area Qty	Required Product	ComEd Incentive Eligible?
1	T8 4-lamp 4ft fixtures (have wire cages)	21	27	Philips Advance – LED dimmable driver IZT-4P15-TLED-N Bulbs: Philips Type C InstantFit LED tubes	Yes
2	T8 3-lamp 3ft fixture	14 3ft	136 3ft	Philips Advance – LED dimmable driver IZT-3P15-TLED-N Bulbs: Philips Type C InstantFit LED tubes	Yes
3	T8 3-lamp 4ft fixture	350 4ft	500 4ft	Philips Advance – LED dimmable driver IZT-3P15-TLED-N Bulbs: Philips Type C InstantFit LED tubes	Yes
4	T8 2-lamp 3ft fixture	45 3ft	12 3ft	Philips Advance – LED dimmable driver IZT-2P15-TLED-N Bulbs: Philips Type C InstantFit LED tubes	Yes
5	T8 2-lamp 4ft fixture	80 4ft	13 4ft	Philips Advance – LED dimmable driver IZT-2P15-TLED-N Bulbs: Philips Type C InstantFit LED tubes	Yes
6	T8 1-lamp 3ft fixture	3 3ft	0	Philips Advance – LED dimmable driver IZT-2P15-TLED-N Bulbs: Philips Type C InstantFit LED tubes	Yes
7	T5 2-lamp 34" fixture	0	52	Product not specified. Vendor shall select a Philips product that qualifies for ComEd incentives, where applicable.	Yes
8	T5 1-lamp 4ft fixture	34 4ft	66 4ft	Product not specified. Vendor shall select a Philips product that qualifies for ComEd incentives, where applicable.	Yes
9	2ft x 4ft 2-lamp T8 4ft fixture	2	0	Philips recessed EvoKit Click 2x4 CLKE 2x4 42L 29W 835 UNV SWZCS P1	Yes
10	2ft x 2ft 3-lamp T8 U-bend 4ft fixture	25	0	Philips recessed EvoKit Click 2x2 CLKE 2x2 32L 24W 835 UNV SWZCS P1	Yes
11	2ft x 2ft 2-lamp T8 U-bend 4ft fixture	27	6	Philips recessed EvoKit Click 2x2 CLKE 2x2 32L 24W 835 UNV SWZCS P1	Yes
12	6" can lights	75	45	Lightolier by Signify downlighting commercial retrofit downlight DualSelect round aperture 6" (white)	No
13	8" can lights	2	26	Lightolier by Signify downlighting commercial retrofit downlight DualSelect round aperture 8" (white)	No
14	9.5" can lights	20	15	Lightolier by Signify downlighting commercial retrofit downlight DualSelect round aperture 10" (white)	No
15	12"x12" square flush mount dual quad pin (stairwells/parking)	1	6	Lumecon workmen series LWS-RCS LED recessed canopy soffit (white)	No
16	12"x12" square flush mount dual quad pin (public entrances)	8	0	Dals CFLEDSQ14-CC-WH 14" square flush mount (white)	No

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6. Exhibits included in this addendum include:
 - a. July 15, 2025 ComEd Bill
 - b. Spec sheets for
 - i. Philips Advance – LED dimmable driver IZT-2P15-TLED-N
 - ii. Philips Advance – LED dimmable driver IZT-3P15-TLED-N
 - iii. Philips Advance – LED dimmable driver IZT-4P15-TLED-N
 - iv. Philips Type C InstantFit LED Tubes

Contact Patrick Brickley, Facilities Manager, in writing at pbrickley@mppl.org with any questions.

Posted August 1, 2025

ADVANCE

by @signify

T8 LED Driver

Mark 7 0-10V

IZT-2P15-TLED-N



IZT-2P15-TLED-N

Brand Name	Mark 7 0-10V
Driver Type	Electronic Dimming
Lamp Connection	Parallel
Input Voltage	120-277V
Input Frequency	50/60 Hz
Status	Active



Specifications

Description	Product No.	Model No.	Ordering Code	Bare Lamp Watts (W)	Nom. Initial Lumens	Min. Start Temp (°F/°C)	Num. of Lamps	Input Current @ Max Output (A)	Input Power (Min/Max) (W)	THD% @ Max Output	Power Factor @ Max Output
Philips LED InstantFit T8 - 4' MasterClass	565580	9290030253/A	8.9T8/MAS/48-830/IF15/P/DIM 10/1	8.9	1500	-13/-25	2	0.210/0.100	3.5 / 25	10	0.99/0.91
	565598	9290030254/A	8.9T8/MAS/48-835/IF15/P/DIM 10/1		1500		1	0.130/0.070	3 / 15	15	0.97/0.81
	565606	9290030255/A	8.9T8/MAS/48-840/IF16/P/DIM 10/1		1600						
	565614	9290030256/A	8.9T8/MAS/48-850/IF16/P/DIM 10/1		1600						
Philips LED InstantFit T8 - 4' CorePro	553214	9290022527A	10T8/COR/48-830/IF15/G 10/1	10	1500	-13/-25	2	0.230/0.110	3.5 / 27	10	0.99/0.92
	553222	9290022528A	10T8/COR/48-835/IF15/G 10/1		1500		2	0.230/0.110	3.5 / 27	10	0.99/0.92
	553230	9290019917A	10T8/COR/48-840/IF16/G 10/1		1600						
	553248	9290019918A	10T8/COR/48-850/IF16/G 10/1		1600						
Philips LED InstantFit T8 - 4' High Output MasterClass	473926	9290013976E/F	13T8/MAS/48-830/IF20/P/DIM 10/1	13	2000	-13/-25	2	0.280/0.120	4 / 33	10	0.99/0.94
	473934	9290013977E/F	13T8/MAS/48-835/IF20/P/DIM 10/1		2000		1	0.160/0.080	3 / 19	15	0.98/0.87
	473942	9290013978E/F	13T8/MAS/48-840/IF21/P/DIM 10/1		2100						
	473958	9290013979E/F	13T8/MAS/48-850/IF21/P/DIM 10/1		2100						
Philips LED InstantFit U-Bent T8 - 6U MasterClass	541854	9290019874B	13T8-6U/MAS/24-830/IF20/P/DIM 10/1	13	2000	-13/-25	2	0.280/0.120	4 / 33	10	0.99/0.94
	541862	9290019875B	13T8-6U/MAS/24-835/IF20/P/DIM 10/1		2000		1	0.160/0.080	3 / 19	15	0.98/0.86
	541870	9290019876B	13T8-6U/MAS/24-840/IF21/P/DIM 10/1		2100						
	541888	9290019877B	13T8-6U/MAS/24-850/IF21/P/DIM 10/1		2100						
Philips LED InstantFit T8 - 4' High Output CorePro	580266	9290035565	11.5T8/COR/48-835/IF20/G/DIM 25/1	11.5	2000	-13/-25	2	0.250/0.120	4 / 29	10	0.99/0.92
	580274	9290035566	11.5T8/COR/48-840/IF21/G/DIM 25/1		2100		1	0.150/0.080	3 / 17	15	0.97/0.83
	580381	9290035623	11.5T8/COR/48-850/IF21/G/DIM 25/1		2100						
	470096	9290013430B	14T8/COR/48-830/IF20/G 10/1	14	2000	-13/-25	2	0.230/0.110	4 / 28	10	0.99/0.92
	470104	9290013431B	14T8/COR/48-835/IF20/G 10/1		2000						
	470112	9290013432B	14T8/COR/48-840/IF21/G 10/1		2100						
	470120	9290013433B	14T8/COR/48-850/IF21/G 10/1		2100						
Philips LED InstantFit T8 - 4' Ultra High Output MasterClass	545178	9290020162B/C	15.5T8/MAS/48-830/IF23/P/DIM 25/1	15.5	2300	-13/-25	2	0.300/0.135	4 / 35	10	0.99/0.94
	533372	9290020163B/C	15.5T8/MAS/48-835/IF24/P/DIM 25/1		2400		1	0.160/0.080	3 / 19	15	0.98/0.87
	545194	9290020164B/C	15.5T8/MAS/48-840/IF25/P/DIM 25/1		2500						
	545200	9290020165B/C	15.5T8/MAS/48-850/IF25/P/DIM 25/1		2500						

Mark 7 0-10V IZT-2P15-TLED-N

IZT-2P15-TLED-N

Brand Name	Mark 7 0-10V
Driver Type	Electronic Dimming
Lamp Connection	Parallel
Input Voltage	120-277V
Input Frequency	50/60 Hz
Status	Active

Specifications

Description	Product No.	Model No.	Ordering Code	Bare Lamp Watts (W)	Nom. Initial Lumens	Min. Start Temp (°F/°C)	Num. of Lamps	Input Current @ Max Output (A)	Input Power (Min/Max) (W)	THD% @ Max Output	Power Factor @ Max Output
Philips LED InstantFit T8 - 3' MasterClass	539858 539866 539874 539882	9290019675B/D 9290019679B/D 9290019676B/D 9290019677B/D	8.5T8/MAS/36-830/IF13/P/DIM 10/1 8.5T8/MAS/36-835/IF13/P/DIM 10/1 8.5T8/MAS/36-840/IF14/P/DIM 10/1 8.5T8/MAS/36-850/IF14/P/DIM 10/1	8.5	1300 1300 1400 1400	-13/-25	2	0.190/0.090	3.5 / 22	10	0.98/0.89
							1	0.120/0.060	3 / 14	15	0.97/0.80
Philips LED InstantFit T8 - 2' MasterClass	541813 541821 541839 541847	9290019869B/C 9290019870B/C 9290019871B/C 9290019872B/C	7T8/MAS/24-830/IF10/P/DIM 10/1 7T8/MAS/24-835/IF10/P/DIM 10/1 7T8/MAS/24-840/IF11/P/DIM 10/1 7T8/MAS/24-850/IF11/P/DIM 10/1	7	1050 1050 1150 1150	-13/-25	2	0.170/0.080	3.5 / 20	10	0.98/0.87
							1	0.110/0.060	3 / 15	15	0.97/0.77

IZT-2P15-TLED-N

Brand Name	Mark 7 0-10V
Driver Type	Electronic Dimming
Lamp Connection	Parallel
Input Voltage	120-277V
Input Frequency	50/60 Hz
Status	Active

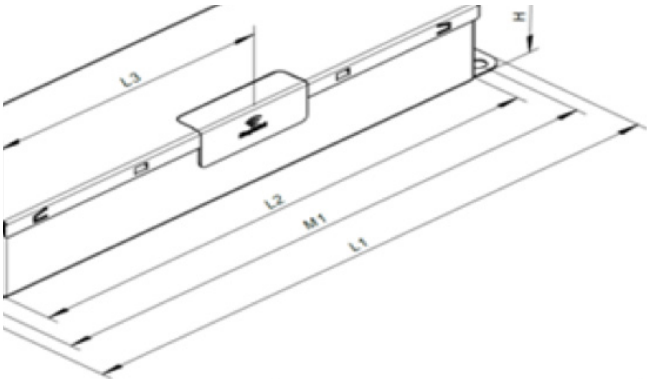
Mark 7 0-10V IZT-2P15-TLED-N

IZT-2P15-TLED-N

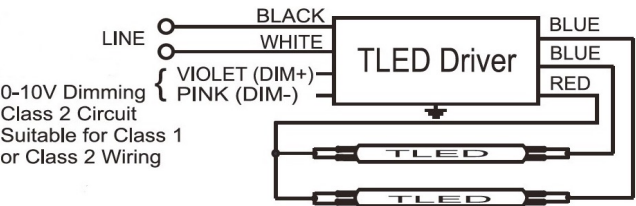
Brand Name	Mark 7 0-10V
Driver Type	Electronic Dimming
Lamp Connection	Parallel
Input Voltage	120-277V
Input Frequency	50/60 Hz
Status	Active

Enclosure

	In. (cm)
Case Width (W)	1.3 (3.3)
Case Height (H)	1.0 (2.5)
Mounting Length (M)	8.90 (22.6)
Overall Length (L1)	9.5 (24.1)



Wiring Diagram



Standard Lead Lengths

	in.	cm.
Black	24	61.0
White	24	61.0
Blue	28	71.1
Red	43	109.2
Violet	32	81.3
Pink	32	81.3

Mark 7 0-10V IZT-2P15-TLED-N

IZT-2P15-TLED-N

Brand Name	Mark 7 0-10V
Driver Type	Electronic Dimming
Lamp Connection	Parallel
Input Voltage	120-277V
Input Frequency	50/60 Hz
Status	Active

Electrical Specifications

Section I – Physical Characteristics

- 1.1 Driver shall be physically interchangeable with standard electromagnetic or standard electronic ballasts, where applicable.
- 1.2 Driver shall be provided with integral leads color coded per ANSI C82.11.

Section II – Performance Requirements

- 2.1 Driver shall energize compatible LED lamps within 1 second after mains power is applied.
- 2.2 Driver shall provide Independent Lamp Operation (ILO) allowing remaining lamp(s) to maintain full light output when one or more lamps fail.
- 2.3 Driver shall contain auto restart circuitry in order to restart lamps without resetting power.
- 2.4 Driver shall operate from a 50Hz or 60 Hz AC input source of 120V through 277V with sustained variations of +/- 10% (voltage and frequency).
- 2.5 Driver shall be high frequency electronic type and operate lamps at frequencies above 42 kHz to avoid interference with infrared devices and eliminate visible flicker.
- 2.6 Driver shall have a Power Factor of 0.87 or above when operating the maximum rated number of compatible lamps, and 0.77 or above when operating the minimum rated number of compatible lamps.
- 2.7 Driver input current shall Total Harmonic Distortion (THD) of 10% or less when operating the maximum rated number of compatible lamps and 15% or less when operating the minimum rated number of compatible lamps.
- 2.8 Driver shall have a Class A sound rating.
- 2.9 Driver shall have a minimum starting temperature of -13°F / -25°C.
- 2.10 Driver shall tolerate sustained open circuit and short circuit output conditions.
- 2.11 Driver shall be capable of operating lamps remotely and in tandem for wire lengths up to 20 ft.
- 2.12 Driver shall be suitable of operation in up to a 45°C ambient temperature.

Section III – Regulatory Requirements

- 3.1 Driver shall not contain any Polychlorinated Biphenyl (PCB).
- 3.2 Driver shall be Underwriters Laboratories (UL) Recognized with Both UL and CSA Standards, and suitable for Damp and Dry conditions.
- 3.3 Driver shall comply with ANSI C62.41 Category A Transient protection.
- 3.4 Driver shall comply with the requirements of the Federal Communication Commission (FCC) rules and regulations, Title 47, CFR part 15, Non-Consumer (Class A) for EMI/RFI (conducted and radiated).
- 3.5 Driver shall comply with NEMA 410 for in-rush current limits.

Section IV – Other

- 4.1 Driver shall be manufactured in a factory certified to ISO 9001 Quality System Standards.
- 4.2 Driver shall carry a five year warranty from date of manufacture against defects in material and workmanship when operating in a 45°C ambient environment or less.



ADVANCE

by @signify

T8 LED Driver

Mark 7 0-10V

IZT-3P15-TLED-N



IZT-3P15-TLED-N

Brand Name	Mark 7 0-10V
Driver Type	Electronic Dimming
Lamp Connection	Parallel
Input Voltage	120-277V
Input Frequency	50/60 Hz
Status	Active



Specifications

Description	Product No.	Model No.	Ordering Code	Bare Lamp Watts (W)	Nom. Initial Lumens	Min. Start Temp (°F/°C)	Num. of Lamps	Input Current @ Max Output (A)	Input Power (Min/Max) (W)	THD% @ Max Output	Power Factor @ Max Output
Philips LED InstantFit T8 - 4' MasterClass	565580	9290030253/A	8.9T8/MAS/48-830/IF15/P/DIM 10/1	8.9	1500	-13/-25	3	0.28/0.12	5 / 33	10	0.99/0.94
	565598	9290030254/A	8.9T8/MAS/48-835/IF15/P/DIM 10/1		1500						
	565606	9290030255/A	8.9T8/MAS/48-840/IF16/P/DIM 10/1		1600		2	0.21/0.10	5 / 25	15	0.98 / 0.91
	565614	9290030256/A	8.9T8/MAS/48-850/IF16/P/DIM 10/1		1600						
Philips LED InstantFit T8 - 4' CorePro	553214	9290022527A	10T8/COR/48-830/IF15/G 10/1	10	1500	-13/-25	3	0.32/0.14	6 / 39	10	0.99/0.96
	553222	9290022528A	10T8/COR/48-835/IF15/G 10/1		1500						
	553230	9290019917A	10T8/COR/48-840/IF16/G 10/1		1600		2	0.23/0.11	6 / 29	15	0.99/0.93
	553248	9290019918A	10T8/COR/48-850/IF16/G 10/1		1600						
Philips LED InstantFit T8 - 4' High Output MasterClass	473926	9290013976E/F	13T8/MAS/48-830/IF20/P/DIM 10/1	13	2000	-13/-25	3	0.39/0.17	6 / 46	10	0.99/0.97
	473934	9290013977E/F	13T8/MAS/48-835/IF20/P/DIM 10/1		2000						
	473942	9290013978E/F	13T8/MAS/48-840/IF21/P/DIM 10/1		2100		2	0.29/0.13	5 / 34	15	0.99/0.95
	473958	9290013979E/F	13T8/MAS/48-850/IF21/P/DIM 10/1		2100						
Philips LED InstantFit T8 - 4' High Output CorePro	580266	9290035565	11.5T8/COR/48-835/IF20/G/DIM 25/1	11.5	2000	-13/-25	3	0.36/0.16	4 / 42	10	0.99/0.97
	580274	9290035566	11.5T8/COR/48-840/IF21/G/DIM 25/1		2100						
	580381	9290035623	11.5T8/COR/48-850/IF21/G/DIM 25/1		2100		2	0.26/0.12	4 / 31	10	0.98/0.92
	470096	9290013430B	14T8/COR/48-830/IF20/G 10/1	14	2000	-13/-25	3	0.34/0.15	6 / 40	10	0.99/0.96
	470104	9290013431B	14T8/COR/48-835/IF20/G 10/1		2000						
	470112	9290013432B	14T8/COR/48-840/IF21/G 10/1		2100		2	0.24/0.11	6 / 29	15	0.99/0.93
	470120	9290013433B	14T8/COR/48-850/IF21/G 10/1		2100						
Philips LED InstantFit T8 - 4' Ultra High Output MasterClass	545178	9290020162C	15.5T8/MAS/48-830/IF23/P/DIM 25/1	15.5	2300	-13/-25	3	0.43/0.19	4 / 51	10	0.99/0.97
	533372	9290020163C	15.5T8/MAS/48-835/IF24/P/DIM 25/1		2400						
	545194	9290020164C	15.5T8/MAS/48-840/IF25/P/DIM 25/1		2500		2	0.31/0.14	4 / 37	10	0.99/0.95
	545200	9290020165C	15.5T8/MAS/48-850/IF25/P/DIM 25/1		2500						
	545178	9290020162B	15.5T8/MAS/48-830/IF23/P/DIM 25/1	15.5	2300	-13/-25	3	0.43/0.19	6 / 51	10	0.99/0.97
	533372	9290020163B	15.5T8/MAS/48-835/IF24/P/DIM 25/1		2400						
	545194	9290020164B	15.5T8/MAS/48-840/IF25/P/DIM 25/1		2500		2	0.31/0.14	5.5 / 37	10	0.99/0.95
	545200	9290020165B	15.5T8/MAS/48-850/IF25/P/DIM 25/1		2500						
Philips LED InstantFit T8 - 3' MasterClass	539858	9290019675B/D	8.5T8/MAS/36-830/IF13/P/DIM 10/1	8.5	1300	-13/-25	3	0.25/0.11	5 / 30	10	0.98/0.94
	539866	9290019679B/D	8.5T8/MAS/36-835/IF13/P/DIM 10/1		1300						
	539874	9290019676B/D	8.5T8/MAS/36-840/IF14/P/DIM 10/1		1400		2	0.19/0.09	5 / 23	15	0.98/0.90
	539882	9290019677B/D	8.5T8/MAS/36-850/IF14/P/DIM 10/1		1400						
Philips LED InstantFit T8 - 2' MasterClass	541813	9290019869B/C	7T8/MAS/24-830/IF10/P/DIM 10/1	7	1050	-13/-25	3	0.23/0.11	5 / 27	10	0.98/0.92
	541821	9290019870B/C	7T8/MAS/24-835/IF10/P/DIM 10/1		1050						
	541839	9290019871B/C	7T8/MAS/24-840/IF11/P/DIM 10/1		1150		2	0.17/0.09	5 / 21	15	0.98/0.89
	541847	9290019872B/C	7T8/MAS/24-850/IF11/P/DIM 10/1		1150						

Mark 7 0-10V IZT-3P15-TLED-N

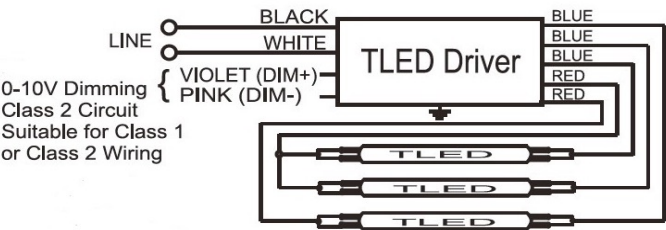
IZT-3P15-TLED-N

Brand Name	Mark 7 0-10V
Driver Type	Electronic Dimming
Lamp Connection	Parallel
Input Voltage	120-277V
Input Frequency	50/60 Hz
Status	Active

Enclosure

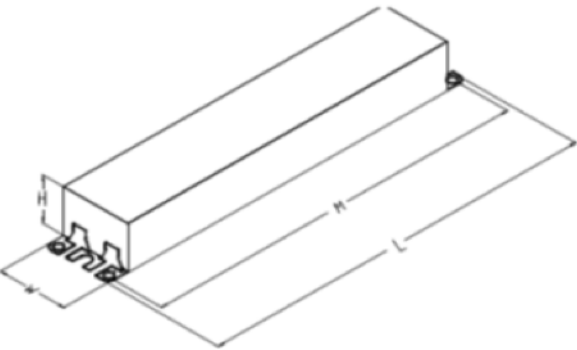
	In. (cm)
Case Width (W)	1.3 (3.3)
Case Height (H)	1.0 (2.5)
Mounting Length (M)	8.90 (22.6)
Overall Length (L1)	9.5 (24.1)

Wiring Diagram



Standard Lead Lengths

	in.	cm.
Black	24	61.0
White	24	61.0
Blue	28	71.1
Red	43	109.2
Violet	32	81.3
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Mark 7 0-10V IZT-3P15-TLED-N

IZT-3P15-TLED-N

Brand Name	Mark 7 0-10V
Driver Type	Electronic Dimming
Lamp Connection	Parallel
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Input Frequency	50/60 Hz
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Electrical Specifications

Section I – Physical Characteristics

- 1.1 Driver shall be physically interchangeable with standard electromagnetic or standard electronic ballasts, where applicable.
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Section II – Performance Requirements

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- 2.9 Driver shall have a minimum starting temperature of -13°F / -25°C.
- 2.10 Driver shall tolerate sustained open circuit and short circuit output conditions.
- 2.11 Driver shall be capable of operating lamps remotely and in tandem for wire lengths up to 20 ft.
- 2.12 Driver shall be suitable of operation in up to a 45°C ambient temperature.

Section III – Regulatory Requirements

- 3.1 Driver shall not contain any Polychlorinated Biphenyl (PCB).
- 3.2 Driver shall be Underwriters Laboratories (UL) Recognized with Both UL and CSA Standards, and suitable for Damp and Dry conditions.
- 3.3 Driver shall comply with ANSI C62.41 Category A Transient protection.
- 3.4 Driver shall comply with the requirements of the Federal Communication Commission (FCC) rules and regulations, Title 47, CFR part 15, Non-Consumer (Class A) for EMI/RFI (conducted and radiated).
- 3.5 Driver shall comply with NEMA 410 for in-rush current limits.

Section IV – Other

- 4.1 Driver shall be manufactured in a factory certified to ISO 9001 Quality System Standards.
- 4.2 Driver shall carry a five year warranty from date of manufacture against defects in material and workmanship when operating in a 45°C ambient environment or less.



ADVANCE

by @signify

T8 LED Driver

Mark 7 0-10V

IZT-4P15-TLED-N



IZT-4P15-TLED-N

Brand Name	Mark 7 0-10V
Driver Type	Electronic Dimming
Lamp Connection	Parallel
Input Voltage	120-277V
Input Frequency	50/60 Hz
Status	Active



Specifications

Description	Product No.	Model No.	Ordering Code	Bare Lamp Watts (W)	Nom. Initial Lumens	Min. Start Temp (°F/°C)	Num. of Lamps	Input Current @ Max Output (A)	Input Power (Min/Max) (W)	THD% @ Max Output	Power Factor @ Max Output
Philips LED InstantFit T8 - 4' MasterClass	565580	9290030253/A	8.9T8/MAS/48-830/IF15/P/DIM 10/1	8.9	1500	-13/-25	4	0.34/0.15	6 / 40	10	0.99/0.95
	565598	9290030254/A	8.9T8/MAS/48-835/IF15/P/DIM 10/1		1500						
	565606	9290030255/A	8.9T8/MAS/48-840/IF16/P/DIM 10/1		1600		3	0.28/0.13	5 / 33	15	0.98/0.93
	565614	9290030256/A	8.9T8/MAS/48-850/IF16/P/DIM 10/1		1600						
Philips LED InstantFit T8 - 4' CorePro	553214	9290022527A	10T8/COR/48-830/IF15/G 10/1	10	1500	-13/-25	4	0.45/0.20	6 / 54	10	0.99/0.97
	553222	9290022528A	10T8/COR/48-835/IF15/G 10/1		1500						
	553230	9290019917A	10T8/COR/48-840/IF16/G 10/1		1600		3	0.38/0.17	6 / 45	15	0.98/0.96
	553248	9290019918A	10T8/COR/48-850/IF16/G 10/1		1600						
Philips LED InstantFit T8 - 4' High Output MasterClass	473926	9290013976E/F	13T8/MAS/48-830/IF20/P/DIM 10/1	13	2000	-13/-25	4	0.49/0.21	6 / 59	10	0.99/0.95
	473934	9290013977E/F	13T8/MAS/48-835/IF20/P/DIM 10/1		2000						
	473942	9290013978E/F	13T8/MAS/48-840/IF21/P/DIM 10/1		2100		3	0.40/0.18	5 / 48	10	0.99/0.97
	473958	9290013979E/F	13T8/MAS/48-850/IF21/P/DIM 10/1		2100						
Philips LED InstantFit T8 - 4' High Output CorePro	580266	9290035565	11.5T8/COR/48-835/IF20/G/DIM 25/1	11.5	2000	-13/-25	4	0.46/0.21	7 / 55	10	0.99/0.95
	580274	9290035566	11.5T8/COR/48-840/IF21/G/DIM 25/1		2100						
	580381	9290035623	11.5T8/COR/48-850/IF21/G/DIM 25/1		2100		3	0.39/0.17	6 / 46	10	0.99/0.96
	470096	9290013430B	14T8/COR/48-830/IF20/G 10/1	14	2000	-13/-25	4	0.46/0.20	6 / 54	10	0.99/0.97
	470104	9290013431B	14T8/COR/48-835/IF20/G 10/1		2000						
	470112	9290013432B	14T8/COR/48-840/IF21/G 10/1		2100		3	0.42/0.19	6 / 51	10	0.98/0.96
	470120	9290013433B	14T8/COR/48-850/IF21/G 10/1		2100						
Philips LED InstantFit T8 - 4' Ultra High Output MasterClass	545178	9290020162C	15.5T8/MAS/48-830/IF23/P/DIM 25/1	15.5	2300	-13/-25	4	0.59/0.26	7 / 70	10	0.99/0.98
	533372	9290020163C	15.5T8/MAS/48-835/IF24/P/DIM 25/1		2400						
	545194	9290020164C	15.5T8/MAS/48-840/IF25/P/DIM 25/1		2500		3	0.49/0.21	6 / 60	10	0.99/0.97
	545200	9290020165C	15.5T8/MAS/48-850/IF25/P/DIM 25/1		2500						
	545178	9290020162B	15.5T8/MAS/48-830/IF23/P/DIM 25/1	15.5	2300	-13/-25	4	0.59/0.26	6.5 / 70	10	0.99/0.98
	533372	9290020163B	15.5T8/MAS/48-835/IF24/P/DIM 25/1		2400						
	545194	9290020164B	15.5T8/MAS/48-840/IF25/P/DIM 25/1		2500		3	0.49/0.21	5.5 / 60	15	0.99/0.97
	545200	9290020165B	15.5T8/MAS/48-850/IF25/P/DIM 25/1		2500						
Philips LED InstantFit T8 - 3' MasterClass	539858	9290019675B/D	8.5T8/MAS/36-830/IF13/P/DIM 10/1	8.5	1300	-13/-25	4	0.31/0.14	5 / 37	10	0.99/0.95
	539866	9290019679B/D	8.5T8/MAS/36-835/IF13/P/DIM 10/1		1300						
	539874	9290019676B/D	8.5T8/MAS/36-840/IF14/P/DIM 10/1		1400		3	0.26/0.12	5 / 31	15	0.98/0.89
	539882	9290019677B/D	8.5T8/MAS/36-850/IF14/P/DIM 10/1		1400						
Philips LED InstantFit T8 - 2' MasterClass	541813	9290019869B/C	7T8/MAS/24-830/IF10/P/DIM 10/1	7	1050	-13/-25	4	0.28/0.13	5 / 34	10	0.99/0.93
	541821	9290019870B/C	7T8/MAS/24-835/IF10/P/DIM 10/1		1050						
	541839	9290019871B/C	7T8/MAS/24-840/IF11/P/DIM 10/1		1150		3	0.24/0.12	5 / 28	18	0.98/0.89
	541847	9290019872B/C	7T8/MAS/24-850/IF11/P/DIM 10/1		1150						

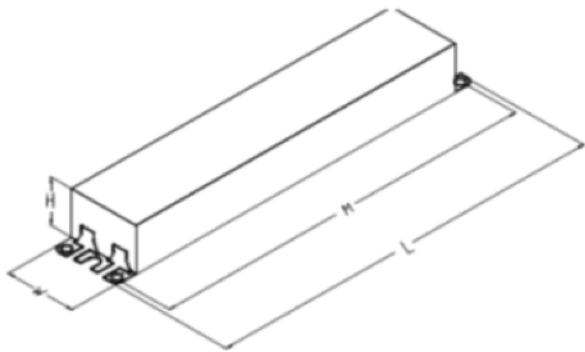
Mark 7 0-10V IZT-4P15-TLED-N

IZT-4P15-TLED-N

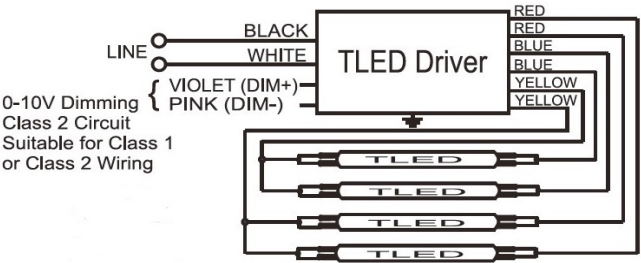
Brand Name	Mark 7 0-10V
Driver Type	Electronic Dimming
Lamp Connection	Parallel
Input Voltage	120-277V
Input Frequency	50/60 Hz
Status	Active

Enclosure

	In. (cm)
Case Width (W)	1.3 (3.3)
Case Height (H)	1.0 (2.5)
Mounting Length (M)	8.90 (22.6)
Overall Length (L1)	9.5 (24.1)



Wiring Diagram



Standard Lead Lengths

	in.	cm.
Black	24	61.0
White	24	61.0
Blue	28	71.1
Red	28	71.1
Yellow	43	109.2
Violet	32	81.3
Pink	32	81.3

Mark 7 0-10V IZT-4P15-TLED-N

IZT-4P15-TLED-N

Brand Name	Mark 7 0-10V
Driver Type	Electronic Dimming
Lamp Connection	Parallel
Input Voltage	120-277V
Input Frequency	50/60 Hz
Status	Active

Electrical Specifications

Section I – Physical Characteristics

- 1.1 Driver shall be physically interchangeable with standard electromagnetic or standard electronic ballasts, where applicable.
- 1.2 Driver shall be provided with integral leads color coded per ANSI C82.11.

Section II – Performance Requirements

- 2.1 Driver shall energize compatible LED lamps within 1 second after mains power is applied.
- 2.2 Driver shall provide Independent Lamp Operation (ILO) allowing remaining lamp(s) to maintain full light output when one or more lamps fail.
- 2.3 Driver shall contain auto restart circuitry in order to restart lamps without resetting power.
- 2.4 Driver shall operate from a 50Hz or 60 Hz AC input source of 120V through 277V with sustained variations of +/- 10% (voltage and frequency).
- 2.5 Driver shall be high frequency electronic type and operate lamps at frequencies above 42 kHz to avoid interference with infrared devices and eliminate visible flicker.
- 2.6 Driver shall have a Power Factor of 0.90 or above when operating the maximum rated number of compatible lamps, and 0.87 or above when operating the minimum rated number of compatible lamps.
- 2.7 Driver input current shall Total Harmonic Distortion (THD) of 10% or less when operating the maximum rated number of compatible lamps and 18% or less when operating the minimum rated number of compatible lamps.
- 2.8 Driver shall have a Class A sound rating.
- 2.9 Driver shall have a minimum starting temperature of -13°F / -25°C.
- 2.10 Driver shall tolerate sustained open circuit and short circuit output conditions.
- 2.11 Driver shall be capable of operating lamps remotely and in tandem for wire lengths up to 20 ft.
- 2.12 Driver shall be suitable of operation in up to a 45°C ambient temperature.

Section III – Regulatory Requirements

- 3.1 Driver shall not contain any Polychlorinated Biphenyl (PCB).
- 3.2 Driver shall be Underwriters Laboratories (UL) Recognized with Both UL and CSA Standards, and suitable for Damp and Dry conditions.
- 3.3 Driver shall comply with ANSI C62.41 Category A Transient protection.
- 3.4 Driver shall comply with the requirements of the Federal Communication Commission (FCC) rules and regulations, Title 47, CFR part 15, Non-Consumer (Class A) for EMI/RFI (conducted and radiated).
- 3.5 Driver shall comply with NEMA 410 for in-rush current limits.

Section IV – Other

- 4.1 Driver shall be manufactured in a factory certified to ISO 9001 Quality System Standards.
- 4.2 Driver shall carry a five year warranty from date of manufacture against defects in material and workmanship when operating in a 45°C ambient environment or less.



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PHILIPS

LED lamps

InstantFit (Type-C)



Type C InstantFit LED Tubes

Philips TLED InstantFit Type-C lamps are created by pairing our InstantFit Type-A lamps with our dedicated TLED drivers. The InstantFit LED lamps provide hassle-free installation with simple lamp-for-lamp replacements. They deliver what we promise, with at least 40% energy savings, flicker-free performance, and the life you would expect.

Benefits

- **No visible flicker**
All InstantFit lamps are below 1.0 SVM
- **Driver Usage**
A variety of drivers enable optimizing the light output and wattage consumption for each application - bit.ly/TLEDdrivers
- **Shatter prevention**
Shatter prevention: Our polycarbonate lamps prevent breakage, not just contain shattered glass
- **Light quality and performance predictability**
Consistent light output and no flicker means delighted customers.

Features

- **Flexibility**
Type A lamps can be used as type C lamps
- **Dimmability**
Certain lamp driver combinations are dimmable
- **Compatibility**
Each lamp is compatible with several drivers.
- **Lifetime delivered**
Average life rating of 50,000 hours, with up to 70,000 hours¹
- **Detailed guide**
Type C product selection guide available upon request
- **Proven product history**
From a company with a long history of innovation and reliability in the lighting industry

1. LED lifetime means the length of time (in hours) until half of the LED light sources maintain at least 70% of their initial lumen output (B50, L70).

Philips LED InstantFit Type-C lamps

Type C InstantFit

Most efficient solution
Rebate driven

Compatible lamp types:

- Many Philips Type A lamps can be paired with our dedicated Advance TLED Drivers to form Type C Systems
- Prevents "Snap-back" of conventional lamps and enables rebates
- A variety of drivers enable optimizing the light output and wattage consumption for each application

CorePro



50,000 hours

OR

MasterClass



70,000 hours



Shatter prevention

+



TLED Driver

Ordering, electrical and technical data (Subject to change without notice)



Product No. (6nc)	Model No. (12nc)	Description	Base	Watts (W)	Lumens (lm)	CRI (min)	CCT (K)	Lifetime ¹ (hrs)
2FT - T8 MasterClass								
541813	9290019869	7T8/MAS/24-830/IF10/P10/1	G13	7	1050	82	3000	70,000
541821	9290019870	7T8/MAS/24-835/IF10/P10/1	G13	7	1050	82	3500	70,000
541839	9290019871	7T8/MAS/24-840/IF11/P10/1	G13	7	1150	82	4000	70,000
541847	9290019872	7T8/MAS/24-850/IF11/P10/1	G13	7	1150	82	5000	70,000
3FT - T8 MasterClass								
539858	9290019675	8.5T8/MAS/36-830/IF13/P10/1	G13	8.5	1300	82	3000	70,000
539866	9290019679	8.5T8/MAS/36-835/IF13/P10/1	G13	8.5	1300	82	3500	70,000
539874	9290019676	8.5T8/MAS/36-840/IF14/P10/1	G13	8.5	1300	82	4000	70,000
539882	9290019677	8.5T8/MAS/36-850/IF14/P10/1	G13	8.5	1400	82	5000	70,000
4FT - T8 Energy Advantage MasterClass								
565580	9290030253	8.9T8/MAS/48-830/IF15/P/DIM 10/1	G13	8.9	1500	82	3000	70,000
565598	9290030254	8.9T8/MAS/48-835/IF15/P/DIM 10/1	G13	8.9	1500	82	3500	70,000
565606	9290030255	8.9T8/MAS/48-840/IF16/P/DIM 10/1	G13	8.9	1600	82	4000	70,000
565614	9290030256	8.9T8/MAS/48-850/IF16/P/DIM 10/1	G13	8.9	1600	82	5000	70,000
4FT - T8 CorePro								
553214	9290022527A	10T8/COR/48-830/IF15/G10/1	G13	10	1800	82	3000	50,000
553222	9290022528A	10T8/COR/48-835/IF15/G10/1	G13	10	1800	82	3500	50,000
553230	9290019917A	10T8/COR/48-840/IF16/G10/1	G13	10	1700	82	4000	50,000
553248	9290019918	10T8/COR/48-850/IF16/G10/1	G13	10	1700	82	5000	50,000
4FT - T8 High Output MasterClass								
469635	9290011588C	13T8/MAS/48-830/IF20/P/DIM 10/1	G13	14	2100	82	5000	70,000
473926	9290013976B	13T8/MAS/48-835/IF20/P/DIM 10/1	G13	13	2000	82	3000	70,000
473934	9290013977B	13T8/MAS/48-840/IF21/P/DIM 10/1	G13	13	2000	82	3500	70,000
473942	9290013978B	13T8/MAS/48-850/IF21/P/DIM 10/1	G13	13	2100	82	4000	70,000
4FT - T8 High Output CorePro								
470096	9290013430	14T8/PRO/48-830/IF20/G10/1FB	G13	14	2000	82	3000	50,000
470104	9290013431	14T8/PRO/48-835/IF20/G10/1FB	G13	14	2000	82	3500	50,000
470112	9290013432	14T8/PRO/48-840/IF21/G10/1FB	G13	14	2100	82	4000	50,000
470120	9290013433	14T8/PRO/48-850/IF21/G10/1FB	G13	14	2100	82	5000	50,000

1. Tested to B50 L70 requirement. LED lifetime means the length of time (in hours) until half of the LED light sources maintain at least 70% of their initial lumen output (B50, L70).

Philips LED InstantFit Type-C lamps

Ordering, electrical and technical data (Subject to change without notice)



Product No. (6nc)	Model No. (12nc)	Description	Base	Watts (W)	Lumens (lm)	CRI (min)	CCT (K)	Lifetime ¹ (hrs)
4FT - T8 Ultra High Output MasterClass								
545178	9290020162	15.5T8/MAS/48-830/IF23/P25/1	G13	15.5	2400	82	3000	70,000
533372	9002016304	15.5T8/MAS/48-835/IF24/P25/1	G13	15.5	2400	82	3500	70,000
545194	9002016404	15.5T8/MAS/48-840/IF25/P25/1	G13	15.5	2500	82	4000	70,000
545200	9002016504	15.5T8/MAS/48-850/IF25/P25/1	G13	15.5	2500	82	5000	70,000
8FT - T8 Slimline CorePro								
533000	9290018971	30T8/PER/96-830/IF42/P/FA810/1	G13	30	4200	82	3000	50,000
533018	9290018972	30T8/PER/96-835/IF42/P/FA810/1	G13	30	4200	82	3500	50,000
533026	9290018973	30T8/PER/96-840/IF42/P/FA810/1	G13	30	4200	82	4000	50,000
533034	9290018974	30T8/PER/96-850/IF42/P/FA810/1	G13	30	4200	82	5000	50,000
U-Bend - T8 High Output MasterClass								
541854	9290019874	13T8-6U/MAS/24-830/IF20/P10/1	G13	13	2000	82	3000	70,000
541862	9290019875	13T8-6U/MAS/24-835/IF20/P10/1	G13	13	2000	82	3500	70,000
541870	9290019876	13T8-6U/MAS/24-840/IF21/P10/1	G13	13	2100	82	4000	70,000
541888	9290019877	13T8-6U/MAS/24-850/IF21/P10/1	G13	13	2100	82	5000	70,000

Compatible Drivers (Subject to change without notice)

2FT Lamps	Compatible Drivers	4FT Lamps	Compatible Drivers	4FT Lamps	Compatible Drivers	8FT Lamps	Compatible Drivers
MasterClass InstantFit T8		CorePro InstantFit HO T8 (2100 lm) CorePro InstantFit T8 (1600 lm)		MasterClass InstantFit T8 (1600 lm)		CorePro InstantFit T8 (4200 lm)	
541813	ICN-2P15-TLED-N	553214	ICN-2P16-TLED-EL-N	565580	ICN-2P16-TLED-EL-N	533000	ICN-2P35-TLED-N
541821	ICN-2P16-TLED-HL-N	553222	ICN-2P16-TLED-N	565598	ICN-2P16-TLED-N	533018	
541839	ICN-3P15-TLED-N	553230	ICN-4P16-TLED-HL-SC	565606	ICN-4P16-TLED-HL-SC	533026	
541847	ICN-4P15-TLED-N	553248	IZT-2P16-TLED-SC*	565614	IZT-2P16-TLED-SC*	533034	
	ICN-4P16-TLED-N	470096	ICN-2P16-TLED-HL-N		ICN-2P16-TLED-HL-N	8FT Lamps Compatible Drivers	
	ICN-2P16-TLED-EL-N	470104	ICN-2P16-TLED-N		ICN-3P16-TLED-N	MasterClass InstantFit T8 (4200 lm)	
	ICN-2P16-TLED-N	470112	ICN-3P16-TLED-N		ICN-4P16-TLED-N	469247	ICN-2P35-TLED-N
	ICN-3P16-TLED-N	470120	ICN-4P16-TLED-N		IZT-4P16-TLED-SC*	469254	
	ICN-4P16-TLED-HL-SC					MasterClass InstantFit T5HO (3500 lm)	
	IZT-2P16-TLED-SC*					467126	ICN-2S24-TLED-90C-N
3FT Lamps Compatible Drivers		4FT Lamps Compatible Drivers		4FT Lamps Compatible Drivers		467134	ICN-2S24-TLED-90C-N 2L
MasterClass InstantFit T8		MasterClass InstantFit HO T8 (2100 lm)		MasterClass InstantFit UHO T8 (2500 lm)		467142	ICN-4S24-TLED-90C-2LS-G 4L
539858	ICN-2P15-TLED-N	469635	ICN-2P13-TLED-N	545178	ICN-2P15-TLED-N	467159	ICN-4S24-TLED-90C-2LS-G3Lx2
539866	ICN-2P16-TLED-HL-N	473926	ICN-2P16-TLED-HL-N	533372	ICN-2P16-TLED-N		ICN-2S24-TLED-90C-N 1L
539874	ICN-3P15-TLED-N	473934	ICN-3P13-TLED-N	545194	ICN-3P16-TLED-N		ICN-4S24-TLED-90C-2LS-G 3L
539882	ICN-4P15-TLED-N	473942	ICN-4P13-TLED-N	545200	ICN-4P16-TLED-HL-SC		ICN-4S24-TLED-90C-2LS-G
	ICN-4P16-TLED-N		ICN-4P16-TLED-N		IZT-2P16-TLED-SC*	U-Bend MasterClass InstantFit HO T8 (2100 lm)	
	IZT-4P16-TLED-SC*		IZT-4P16-TLED-SC*		ICN-2P16-TLED-EL-N	541854	ICN-2P13-TLED-N
	ICN-2P16-TLED-EL-N		ICN-2P16-TLED-EL-N		ICN-3P15-TLED-N	541862	ICN-2P16-TLED-EL-N
	ICN-2P16-TLED-N		ICN-2P16-TLED-N		ICN-4P15-TLED-N	541870	IZT-2P16-TLED-SC*
	ICN-3P16-TLED-N		ICN-3P16-TLED-N		ICN-4P16-TLED-N	541888	ICN-2P15-TLED-N
	ICN-4P16-TLED-HL-SC		ICN-4P16-TLED-HL-SC		IZT-4P16-TLED-SC*		ICN-2P16-TLED-HL-N
	IZT-2P16-TLED-SC*		IZT-2P16-TLED-SC*				

Most combinations are DLC listed (QPL listings are included in model numbers and drivers).

Most combinations work in N and N-1 configurations.

- Tested to B50 L70 requirement. LED lifetime means the length of time (in hours) until half of the LED light sources maintain at least 70% of their initial lumen output (B50, L70).

* Dimmable driver.



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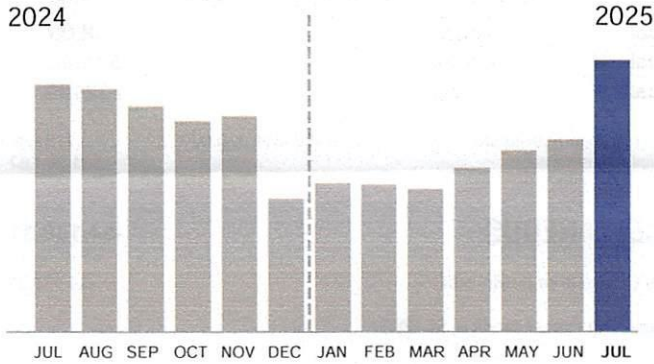
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10 S Emerson St
Mount Prospect, IL 60056
[REDACTED]

TOTAL USAGE (kWh)



AVERAGE DAILY USE (monthly usage/days in period)

Current Month

80.3° avg. temp

7881.2 kWh



+2 % from last year

Last Month

64.7° avg. temp

5969.8 kWh

Last Year

78.4° avg. temp

7689.1 kWh

💡 Ten 100W light bulbs for 1 hour = 1 kWh

CURRENT CHARGES SUMMARY

See reverse side for details ➡



SUPPLY
\$21,053.58

Current Charges
[REDACTED]

DELIVERY
\$8,387.70



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Account # [REDACTED]



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Payment Amount:

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