

Pool A Lighting Installation Resolution Worksheet

Date: June 19, 2019

Suggested Motion:

“I move to approve a contract with Lightility for the installation of new LED lights at Pool A including the Martha Custis tennis courts at a cost of \$12,346.05 with funds to come from 3200-1.027”

2nd:

Lightility, of Rockville, Maryland has come forth with a proposal to fully replace all the exterior building and pole lights at Pool A, located on Martha Custis Drive. This proposal also includes new LED packs for the 4 tennis courts. These are 10-year lifecycle fixtures. The price includes taxes and full installation. The breakdown is included in this package. The new fixtures will provide an energy reduction of 70.51% annually, with a payback of 3.2 years.

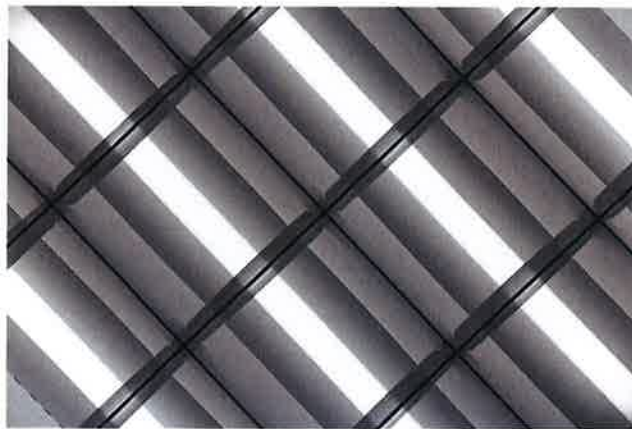
Vote:

	In Favor	Opposed	Abstained	Absent
Scott Buchanan				
Dan Courtney				
Susan Cox				
James Konkel				
Rich Moha				
Kathy Schramek				
Nicholas Soto				
Robin Woods				
Maria Wildes				

Parkfairfax Unit Owners Association

Parkfairfax - Martha Custis Pool

June 06, 2019



Prepared By:

Heller Craig
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Maxlite, 9W, LED A19, 4000K, Dim, Enclosed	16

Project Summary

	Existing	After Retrofit
Number of Fixtures	33	33
Lighting System Energy Consumption (kW)	9.399	2.772
Current Utility Rate - \$/kWh	\$0.120000	

Savings Summary

Energy Reduction



28,947 kWh
REDUCED

Energy Savings



\$3,474
SAVED

Maintenance Savings



\$336
SAVED

Financial Summary

Project Cost	\$11,858.27
Tax (6.00%)	\$487.78
Less Rebates	\$0.00
Net Project Cost	\$12,346.05



3.2 yrs

This is the payback period of time to reach the breakeven point



195.12%

This is the return on investment over analysis years



\$24,090.03

This is used in budgeting to analyze profitability of investment



27.60%

This is a metric used to measure profitability of potential investment

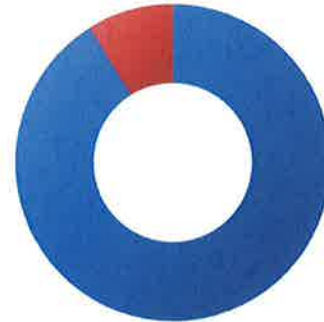
Monthly Cost of Delay

\$317.50

Project Cost & Savings Summary

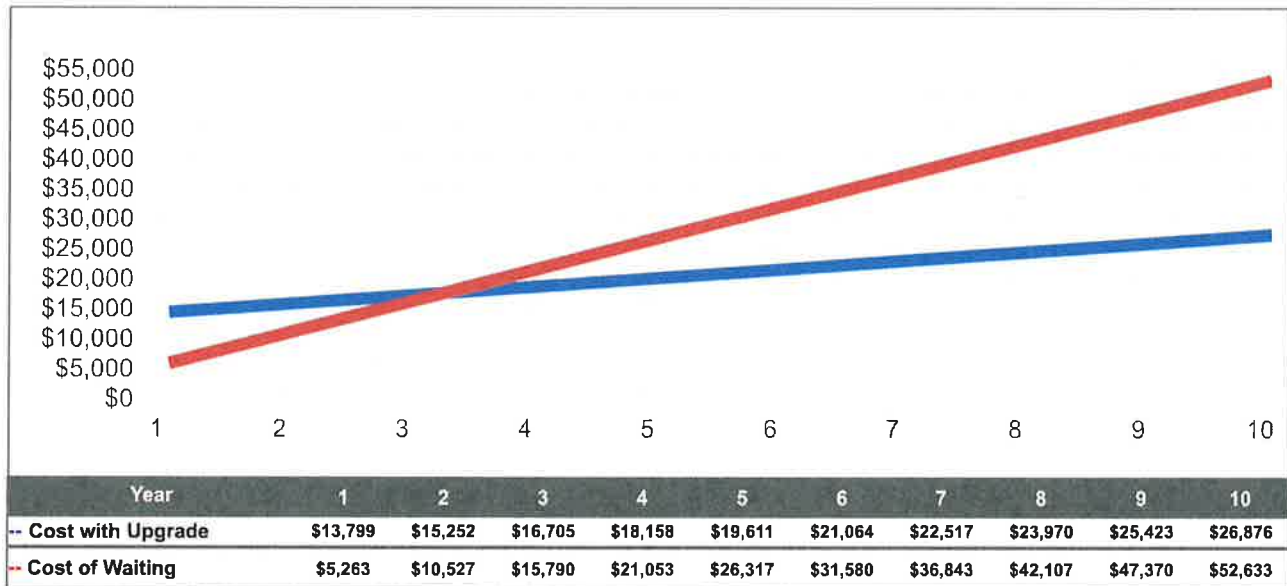
The following graphs and tables show the annual project costs and savings expected with the proposed design, based on annual usage hours and a utility rate of \$0.120000 per kWh.

Financial Costs and Savings		
	Costs	Savings
Cost of Project	\$12,346	
Incentive Estimate		\$0
Annual Energy Savings		\$3,474
Annual Maintenance Savings		\$336



The Cost of Waiting

■ Energy (\$3,474) ■ Maintenance (\$336)

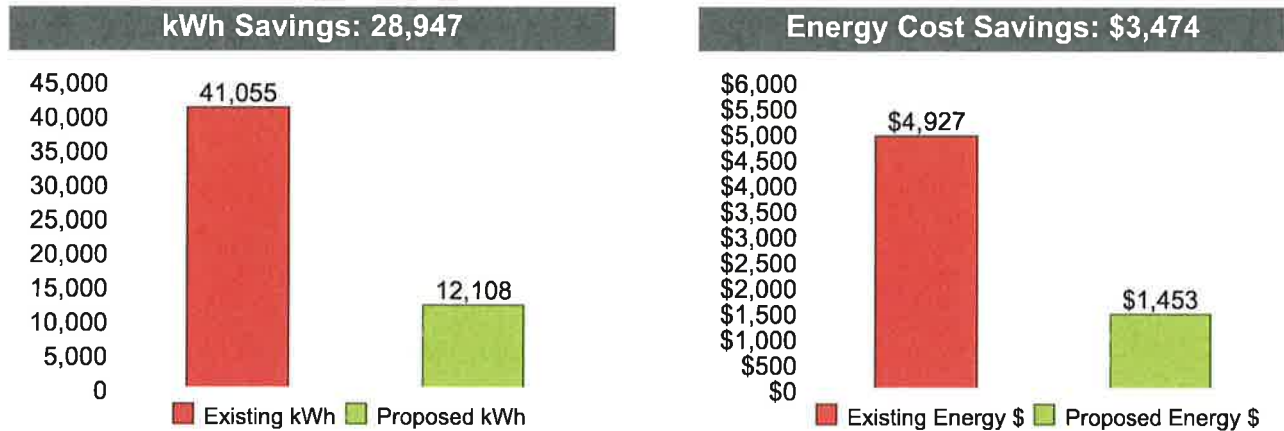


Cumulative Costs Over 10 Year Lifecycle (\$)
(Graph based on Single Investment project data)

\$38,099.44
Estimated Lifecycle Savings

Energy Savings Summary

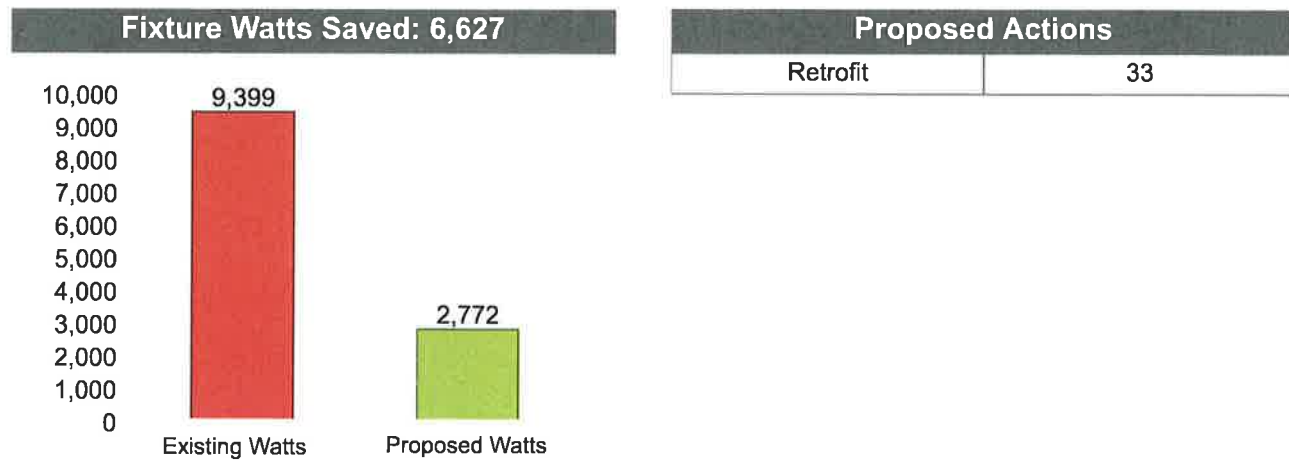
The following graphs and tables show the annual energy savings expected with the proposed design, based on annual usage hours and a utility rate of \$0.120000 per kWh.



Area Detail

Location	Area	Energy Reduction %	Avg. Burn Hour Reduction %	Annual Energy Savings
PUOA0001	Pool A Martha Curtis and Holmes	70.51%	0.00%	\$3,474
Total Number of Fixtures: 33				

Fixture Summary



Fixture Breakdown

Existing			Proposed				Savings
Fixture Name	Qty	Watts	Solution Name	Qty	Watts	Action	Watts
CFL-CF15W-1	5	75	Sunlite Lantern, E26 base mount w/ 9W A19	5	90	Retrofit	-15
LED-L50-1	4	200	Best Lighting, 30W, Trunnion Flood, 4000K	4	120	Retrofit	80
MH-MH400-2	4	3,664	Best Lighting, 150W Area Light, 4000K, SF Mount, Type 3, 2L	4	1,200	Retrofit	2,464
MH-MH400-4	2	3,840	Best Lighting, 150W Area Light, 4000K, Trunnion Mount, Type 3, 4L Slip-Filter Mounting Bracket, 80-280W	2	1,200	Retrofit	2,640
MH-MH70-1	18	1,620	Marlex, Vangaurd Post Top, Maxlite, 9W, LED A19, 4000K, Dim, Enclosed	18	162	Retrofit	1,458

Annual Environmental Impact

Reducing energy use is the quickest, safest, most cost-effective way to reduce the emission of greenhouse gases that accompanies the generation of electricity from fossil fuels. Reducing 28,947 kWh per year on this project is equivalent to:



44,863.1 lbs. CO₂ Saved

(Leading Cause of Global Warming)

- OR -



4.3 Cars Removed from Road

(4.73 Metric Tons of CO₂ / Passenger Vehicle)

- OR -



2,289.8 Gallons of Gas Consumed

(0.008887 Metric Ton of CO₂ per Gallon of Gasoline)

- OR -



521.8 Tree Seedlings Grown

(0.039 Metric Ton of CO₂ per Urban Tree Planted for 10 years)

- OR -



19.2 Acres of Forest in 1 Year

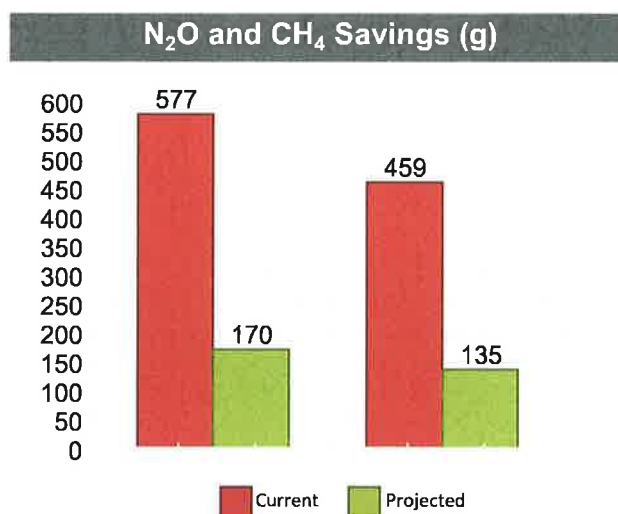
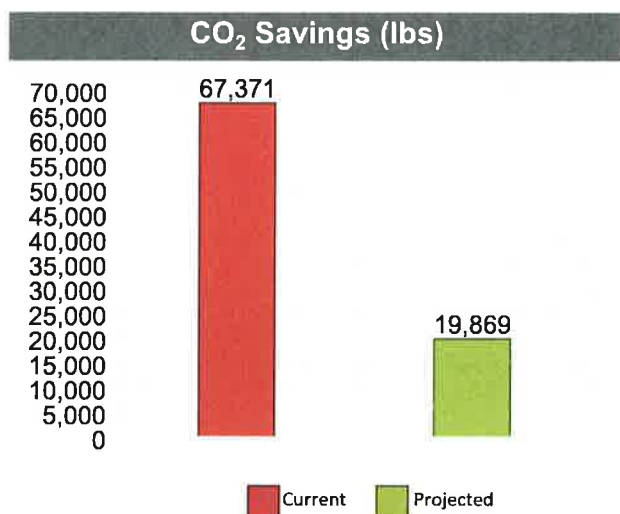
(1.06 Metric Tons of CO₂ Sequestered Annually by 1 Acre of U.S. forest)

Cited using
<https://www.epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references>

Annual Greenhouse Gas Impact

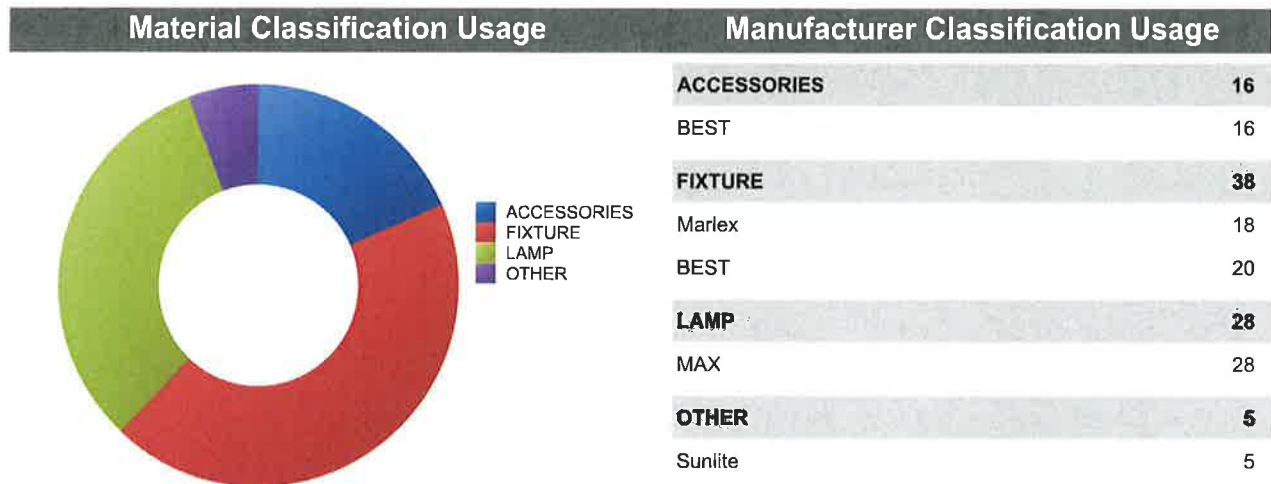
Reducing energy use is the quickest, safest, most cost-effective way to reduce the emission of greenhouse gases that accompanies the generation of electricity from fossil fuels. Reducing 28,947 kWh per year on this project reduces:

Greenhouse Gas	Current	Projected	Saved
Carbon Dioxide, CO ₂ (lbs)	67,371	19,869	47,502
Nitrous Oxide, N ₂ O (g)	577	170	407
Methane, CH ₄ (g)	459	135	324



Cited using
<https://www.epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references>

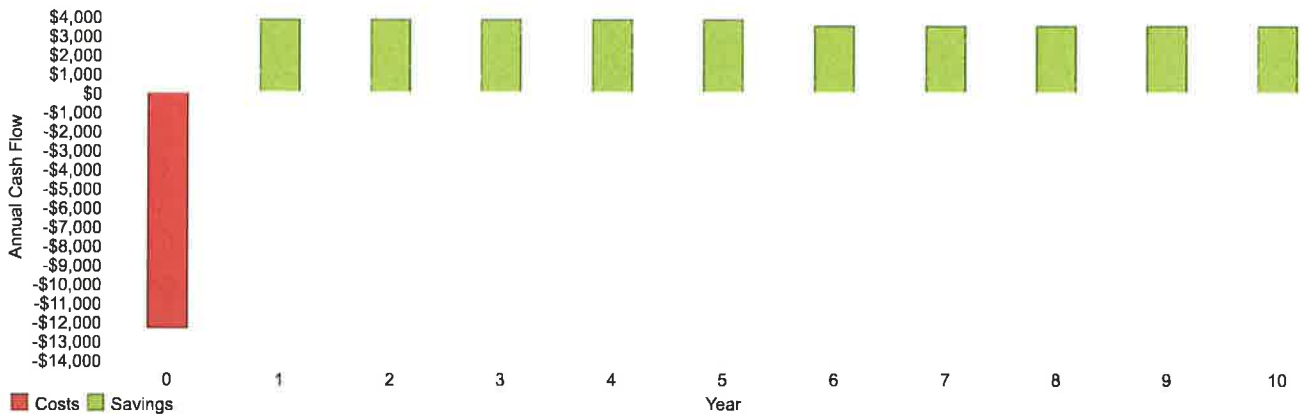
Material Summary



Materials Breakdown

Description	Qty	Rated Life	Warranty Years
ACCESSORIES	16		
Slip-Fitter Mounting Bracket, 80-280W	16	0	0
FIXTURE	38		
Marlex, Vangaurd Post Top	18	0	0
Best Lighting, 30W, Trunnion Flood, 4000K	4	50,000	5
Best Lighting, 140W Area Light, 4000K, Trunnion Mount, Type 3	16	70,000	5
LAMP	28		
Maxlite, 9W, LED A19, 4000K, Dim, Enclosed	28	25,000	5
OTHER	5		
Sunlite Lantern Black, E26 base mount	5	0	0

Cash Flow Graph



	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
SUBTOTAL COSTS	\$12,346	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SUBTOTAL SAVINGS	\$0	\$3,810	\$3,810	\$3,810	\$3,810	\$3,810	\$3,478	\$3,478	\$3,478	\$3,478	\$3,478
TOTAL CASH FLOWS	-\$12,346	\$3,810	\$3,810	\$3,810	\$3,810	\$3,810	\$3,478	\$3,478	\$3,478	\$3,478	\$3,478





Fixture Detail

Totals		33		41,055		33		12,108		\$0		\$3,474		\$0		\$336	
Area		Existing				Proposed Solution						Savings					
Room	Existing	Watts	Qty	Burn	kWh	Proposed	Watts	Qty	% Red.	Burn	kWh	Ctrl Qty	Rebates	Energy	HVAC	Maintenance	
PUOA0001 / Pool A Martha Curtis and Holmes																	
Poles 8 feet	MH-MH70-1/ Post Top-Medium, Frosted-Pole-No	90.0	18	4,368	7,076	Marlex, Vanguard Post Top, Maxlite, 9W, LED A19, 4000K, Dim, Enclosed	9.0	18	0	4,368	708	0	\$0	\$764	\$0	\$197	
Tennis Court Poles 20 feet	MH-MH400-2/ Shoe Box-Medium- Clear-No	916.0	4	4,368	16,004	Best Lighting, 150W Area Light, 4000K, SF Mount, Type 3, 2L	300.0	4	0	4,368	5,242	0	\$0	\$1,292	\$0	\$35	
Tennis Court Poles 20 feet	MH-MH400-4/ Shoe Box-Medium- Clear Slip/Filter -No	1920.0	2	4,368	16,773	Best Lighting, 150W Area Light, 4000K, Trunnion Mount, Type 3, 4L Slip-Filter Mounting Bracket, 80- 280W	600.0	2	0	4,368	5,242	0	\$0	\$1,384	\$0	\$105	
Ground Floods	LED-L50-1/ Flood-Medium-Clear- Ground-No	50.0	2	4,368	437	Best Lighting, 30W, Trunnion Flood, 4000K	30.0	2	0	4,368	262	0	\$0	\$21	\$0	\$0	
Pole Floods	LED-L50-1/ Flood-Medium-Clear- Ground No	50.0	2	4,368	437	Best Lighting, 30W, Trunnion Flood, 4000K	30.0	2	0	4,368	262	0	\$0	\$21	\$0	\$0	
Door Sconces	CFL-CF15W-1/ Decorative-A18-Clear- Wall-No	15.0	5	4,368	328	Sunlite Lantern, E26 base mount w/ 9W A19	16.0	5	0	4,368	393	0	\$0	-\$8	\$0	\$0	
Totals			33		41,055			33			12,108		\$0	\$3,474	\$0	\$336	

LEDMPAL30 30 Watt Multi-Purpose LED Area Light

BEST
LIGHTING PRODUCTS

Project:	
Type:	
Catalog #:	

STANDARD



The LEDMPAL series is a group of architectural LED area luminaires designed to illuminate parking areas, pathways, building facades, loading docks, and a wide variety of other large, general site lighting applications. Multiple mounting options make the LEDMPAL a versatile luminaire for flood lighting, pole-, ground- and wall-mounted area lighting, and other outdoor lighting requirements.

FEATURES

- Available in 4000K (neutral white) and 5000K (cool white).*
- Long-life LEDs provide 69,000 hours of operation with at least 70% of initial lumen output (L_{70}).^{***}
- Delivers 2,899 lumens and 100 lumens per watt.*
- Universal 100-277 AC voltage (50-60Hz) is standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Die cast aluminum housing with durable, dark bronze powder coat finish, and a heat-resistant polycarbonate lens.
- Wireway enclosure is sealed with a water-tight, silicon rubber gasket.
- Effective projected areas (EPA's) are: Front = 0.09 sf; Side = 0.07 sf; and Face = 0.29 sf.
- Easy installation in new construction or retrofit applications.

* Contact factory for other color temperatures and lumen packages.

^{***} L_{70} hours are IES TM-21-11 calculated hours.



Yoke-Mount Option

Knuckle-Mount Option

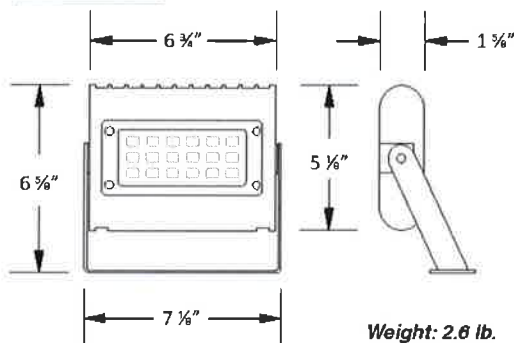
WARRANTY & LISTINGS

- cULus listed for wet locations (-30°C to 40°C / -22°F to 104°F)
- IP65 rated.
- DLC approved.
- Complies with FCC Part 15.
- Complies with EN61000-4-5, surge immunity (1kV).
- Complies with EN61000-4-2 level 2 electrostatic discharge (4kV).
- Tested to UL1598, UL8750 and IEC60598 safety standards.
- 5-year warranty on all electronics and housing.

MOUNTING OPTIONS

- Yoke-mount option provides secure attachment to flat surfaces.
- Aluminum die-cast knuckle-mount option is installed on a junction box. Includes 1/2" NPS stem with locking nut.

DIMENSIONS



ORDERING INFORMATION

Example: LEDMPAL30-Y-4K

Model	Luminaire Watts	Luminaire Lumens	Lumens / Watt	Mounting Options	Color Temperature
LEDMPAL30	29	2,899	100	Y = Yoke Mount K = Knuckle Mount	4K = 4000k 5K = 5000k

LEDMPAL30 30 Watt Multi-Purpose LED Area Light



ELECTRICAL DATA

Model	Color Temperature	CRI ¹	Luminaire Lumens	Luminaire Watts	Lumens Per Watt	Input Voltage	Input Current (A)			Power Factor	THD ²	L ₇₀ Hours ³
							120V	240V	277V			
LEDMPAL30-4K	4000k	> 80	2,899	29	100	120-277 (50-60Hz)	0.24	0.12	0.10	> 90%	< 20%	69,000
LEDMPAL30-5K	5000k	> 80	2,899	29	100	120-277 (50-60Hz)	0.24	0.12	0.10	> 90%	< 20%	69,000

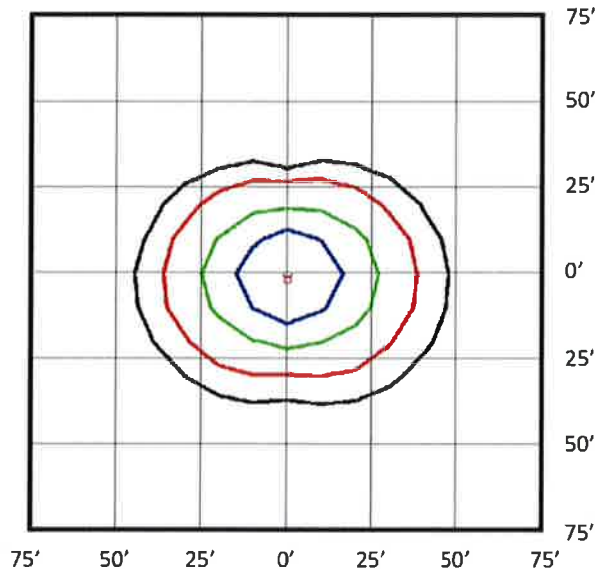
¹ Color rendering index

² Total harmonic distortion

³ L₇₀ refers to the number of hours at which lumen output declines to 70% of the initial level. L₇₀ hours are IES TM-21-11 calculated hours.

PHOTOMETRIC DATA

LEDMPAL30-4K (2,899 Lumens , Type V Distribution)



Foot Candles

- 5.0
- 2.0
- 1.0
- 0.5
- 0.2
- 0.1

Notes:

- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

BUG Rating: B1-U1-G1

Zone	Lumens	%
FL - Front - Low (0-30)	448	15%
FM - Front - Medium (30-60)	841	29%
FH - Front - High (60-80)	266	9%
FVH - Front - Very High (80-90)	24	1%
Total Forward Light	1,578	54%
BL - Back - Low (0-30)	423	15%
BM - Back - Medium (30-60)	705	24%
BH - Back - High (60-80)	182	6%
BVH - Back - Very High (80-90)	9	0%
Total Back Light	1,318	45%
UL - Up Light - Low (90-100)	1	0%
UH - Up Light - High (100-180)	2	0%
Total Up Light	2	0%
Total Lumens	2,899	100%

LEDMPALPRO80-140 80-140 Watt, Premium Multi-Purpose LED Area Luminaire

Project:	
Type:	
Catalog #:	



STANDARD



The LEDMPALPRO series is a group of premium architectural LED area luminaires designed to illuminate parking areas, pathways, building facades, loading docks, and a wide variety of other large, general site lighting applications. Multiple mounting options make the LEDMPALPRO a versatile luminaire for flood lighting, pole-, ground- and wall-mounted area lighting, and other outdoor lighting requirements.

FEATURES

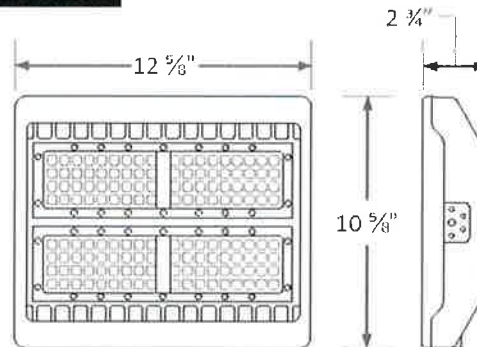
- Available in 4000k (neutral white) and 5000k (cool white) color temperatures.*
- Long-life LEDs provide 372,000 hours of operation with at least 70% of initial lumen output (L_{70}).
- LEDMPALPRO80 provides 9,816 lumens (123 lumens per watt, LPW) at 4000k, and 10,008 lumens (125 LPW) at 5000k.*
- LEDMPALPRO100 provides 11,834 lumens (118 LPW) at 4000k, and 12,084 lumens (121 LPW) at 5000k.*
- LEDMPALPRO140 provides 16,438 lumens (117 LPW) at 4000k, and 16,687 lumens (119 LPW) at 5000k.*
- Standard optic provides an IES roadway type V distribution, or a 7V (vertical) x 7H (horizontal) NEMA floodlight distribution.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Optional glare shields (full & half) & wire guards are available.
- Die cast aluminum housing with durable, dark bronze powder coat finish—at least 2 mils thick on all surfaces—and a heat-resistant polycarbonate lens.
- Wireway enclosure is sealed with a water-tight, silicon rubber gasket.
- Effective projected areas (EPA's) are:
 - Front = 0.24 sq. ft.
 - Side = 0.29 sq. ft.
 - Face = 1.10 sq. ft.
- Easy installation in new construction or retrofit applications.

* Contact factory for other color temperatures and lumen packages.
* L_{70} hours are IES TM-21-11 calculated hours.

WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperatures from -20°C to 45°C (-4°F to 113°F).
- IP66 rated for ingress protection.
- DLC premium approved.
- Flicker-free per IEEE1789-2015 (no observable adverse effects of flicker at 100% light output level).
- Rated for 3G vibration.
- Lens is IK 9 rated for protection from external impacts.
- Salt fog tested for 1,000 hours (ASTM B117). After salt fog testing, paint rated at 9 per ASTM D1654-05 scratch test.
- Complies with FCC Part 15, class B.
- Complies with EN61000-4-5, surge immunity protection (6kV).
- 5-year warranty of all electronics and housing.

DIMENSIONS



Weight: 8.2 lbs. (80W), 10.8 lbs. (100W) & 11 lbs. (140W)

ORDERING INFORMATION

Example: LEDMPALPRO80-4K + LEDMPALPRO-YK-80/140 + MPALPRO80/100/140-FGS + MPALPRO80/100/140-WG

Model	Color Temperature	Luminaire Lumens	Luminaire Watts	Lumens Per Watt	Accessories (Order Separately)
LEDMPALPRO80	4K = 4000k	9,816	80	123	LEDMPALPRO-YK-80/140 = Yoke Mounting Bracket, 80 – 140W LEDMPALPRO-TR-80/280 = Trunnion Mounting Bracket, 80 – 280W LEDMPALPRO-ARM-80/280 = Arm Mounting Bracket, 80 – 280W LEDMPALPRO-SF-80/280 = Slip-Fitter Mounting Bracket, 80 – 280W LEDMPALPRO-PCKIT-80/280 = NEMA photocell installation kit, 80 – 280W
	5K = 5000k	10,008		125	
LEDMPALPRO100	4K = 4000k	11,834	100	118	
	5K = 5000k	12,084		121	
LEDMPALPRO140	4K = 4000k	16,438	140	117	
	5K = 5000k	16,687		119	MPALPRO80/100/140-FGS = Full Glare Shield, 80 – 140W MPALPRO80/100/140-HGS = Half Glare Shield, 80 – 140W MPALPRO80/100/140-WG = Wire Guard, 80 – 140W

LEDMPALPRO80-140 80-140 Watt, Premium Multi-Purpose LED Area Luminaire

ELECTRICAL DATA

Model	Color Temperature	CRI ¹	Luminaire Lumens	Luminaire Watts	Lumens Per Watt	Input Voltage ²	Input Current (A)			Power Factor	THD ³	L ₇₀ Hours ⁴
							120V	240V	277V			
LEDMPALPRO80-4K	4000k	> 80	9,816	80	123	120-277	0.67	0.33	0.29	> 90%	< 20%	372,000
LEDMPALPRO80-5K	5000k	> 80	10,008	80	125	120-277	0.67	0.33	0.29	> 90%	< 20%	372,000
LEDMPALPRO100-4K	4000k	> 80	11,834	100	118	120-277	0.83	0.42	0.36	> 90%	< 20%	372,000
LEDMPALPRO100-5K	5000k	> 80	12,084	100	121	120-277	0.83	0.42	0.36	> 90%	< 20%	372,000
LEDMPALPRO140-4K	4000k	> 80	16,438	140	117	120-277	1.17	0.58	0.51	> 90%	< 20%	372,000
LEDMPALPRO140-5K	5000k	> 80	16,687	140	119	120-277	1.17	0.58	0.51	> 90%	< 20%	372,000

¹ Color rendering index.

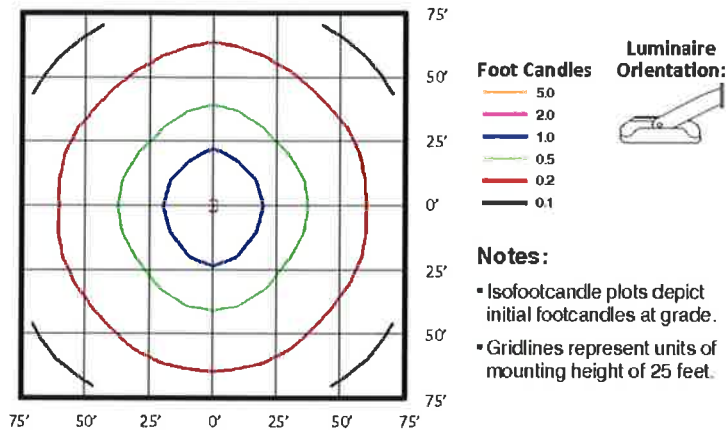
² All 50-60Hz.

³ Total harmonic distortion.

⁴ L₇₀ refers to the number of hours at which lumen output declines to 70% of the initial level. L₇₀ hours are IES TM-21-11 calculated hours.

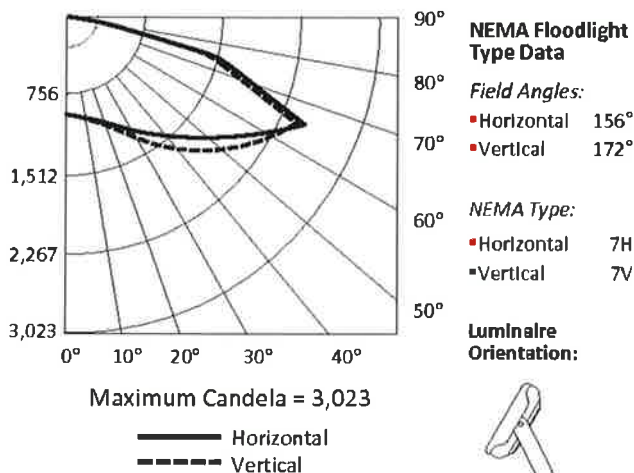
PHOTOMETRIC DATA

LEDMPALPRO80-4K (9,816 Lumens, Type V Distribution)

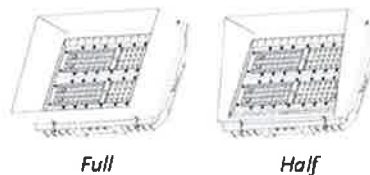


BUG Rating: B4-U0-G4

Zone	Lumens	%
FL - Front - Low (0-30)	456	5%
FM - Front - Medium (30-60)	1,929	20%
FH - Front - High (60-80)	2,319	24%
FVH - Front - Very High (80-90)	266	3%
Total Forward Light	4,970	51%
BL - Back - Low (0-30)	449	5%
BM - Back - Medium (30-60)	1,852	19%
BH - Back - High (60-80)	2,250	23%
BVH - Back - Very High (80-90)	295	3%
Total Back Light	4,846	49%
UL - Up Light - Low (90-100)	0	0%
UH - Up Light - High (100-180)	0	0%
Total Up Light	0	0%
Total Lumens	9,816	100%



Shields

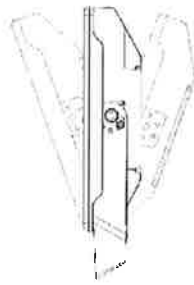
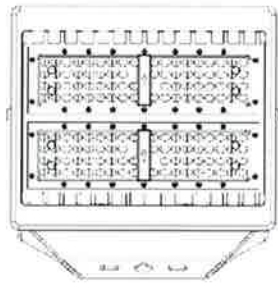


Wire Guards

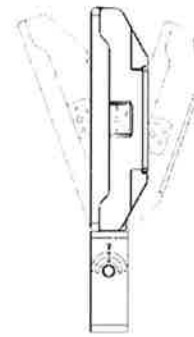
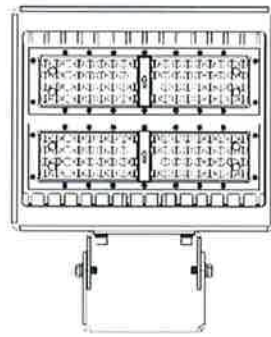


LEDMPALPRO80-140 80-140 Watt, Premium Multi-Purpose LED Area Luminaire

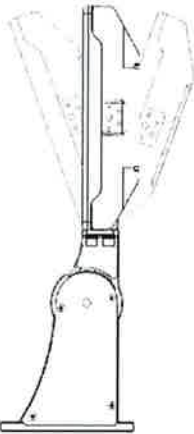
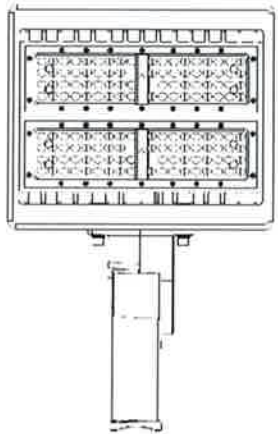
MOUNTING ACCESSORIES



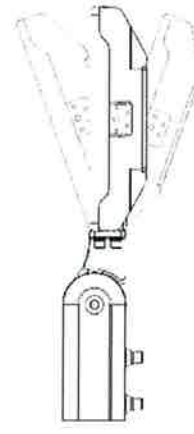
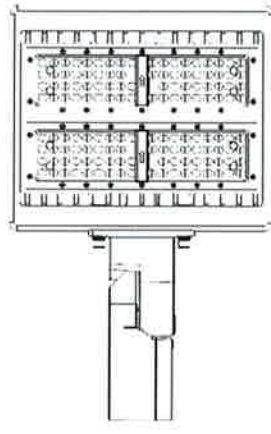
Yoke Mount
LEDMPALPRO-YK-80/140



Trunnion Mount
LEDMPALPRO-TR-80/280



Adjustable Arm Mount
LEDMPALPRO-ARM-80/280



Slip-Fitter Mount
LEDMPALPRO-SF-80/280

All mounting accessories are adjustable up to 90° in both directions.



PROJECT NAME _____ CATALOG NUMBER: _____
NOTES: _____ FIXTURE SCHEDULE: _____

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LED ENCLOSED RATED OMNIDIRECTIONAL A-LAMP A19 GEN 6 SERIES



6W, 9W & 11W



15W



GU24 Base



PRODUCT DESCRIPTION:

MaxLite's LED enclosed rated Omnidirectional A-Line lamp replicate true A19 incandescents. They are suited to a wide variety of residential and commercial applications, including pendants, wall sconces and table and floor lamps.

FEATURES:

- 6W, 480lm, 40W Inc. replacement
- 9W, 800lm, 60W Inc. replacement
- 11W, 1100lm, 75W Inc. replacement
- 15W, 1600lm, 100W Inc. replacement
- Dimmable down to 10%
- Power factor: ≥ 0.70
- 25,000 hour life (L70 standards)
- CRI: ≥ 80
- Volts: 120V
- ENERGY STAR certified
- Available in E26 and GU24 base
- Suitable for dry and damp locations
- Suitable for use in fully enclosed luminaires
- Five year limited warranty

APPLICATIONS

- Pendants
- Table and floor lamps
- Sconces

ORDERING:

MODEL SELECTION (Full list of order codes on pg. 2)		Typical order examples: E6A19CLED27/06		
FAMILY	BASE	DIMMABILITY	CCT	GENERATION
E6A19 = 6 watts, A19 E9A19 = 9 watts, A19 E11A19 = 11 watts, A19 E15A19 = 15 watts, A19	(OMIT) = E26 GU = GU24	DLED = Dimmable	27 = 2700K 30 = 3000K 40 = 4000K 50 = 5000K*	/G6 = Generation 6

NOTES:

1. E6A19CLED27/G6 is available in bulk pack (50pcs)
2. E9A19CLED27/G6 is available in 4-Packs and bulk pack (50pcs)
- * 5000K CCT is only available as E9A19CLED50/G6

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SPECIFICATIONS:

SPECIFICATIONS:		E6A19DLEDxx/G6		E9A19DLEDxx/G6		E11A19DLEDxx/G6		E15A19DLEDxx/G6	
ITEM	SPECIFICATION	DETAILS							
GENERAL PERFORMANCE	Power Consumption	6W		9W		11W		15W	
	Lumens Delivered	480		800		1100		1600	
	Efficacy (lm/w)	80		88		100		106	
	CRI	≥80							
	Color Temperature (CCT)	2700K, 3000K, 4000K, 5000K*							
	Lumen Maintenance (L70)	25,000 Hours							
ELECTRICAL	Power Factor	≥0.70							
	Input Voltage	120V							
PHYSICAL	Base Type	E26							
	Operating Temperature	-4°F - 104°F							
CERTIFICATION	Certification	ENERGY STAR, UL Listed, FCC, RoHS Compliant							
	Environment	Dry, Damp							
	Warranty	5 Year Limited							

Lighting layouts and spacing criteria available upon request

* 5000K CCT is only available as E9A19DLED5000G6

ORDERING:

ORDER CODE	MODEL	ENERGY STAR	WATTS	EQUIVALENCY	DELIVER LUMENS	EFFICACY (lm/W)	CRI	CCT	DIMENSIONS (W" x HOL")
E26 Base									
14099390	E6A19DLED27/G6	★	6	40W Inc.	480	80	80	2700K	2.36" x 4.25"
14099391	E6A19DLED27/G6/BP	★	6	40W Inc.	480	80	80	2700K	
14099392	E6A19DLED30/G6	★	6	40W Inc.	480	80	80	3000K	
14099393	E6A19DLED40/G6	★	6	40W Inc.	480	80	80	4000K	
14099394	E9A19DLED27/G6	★	9	60W Inc.	800	88	80	2700K	
14099395	E9A19DLED27/G6/4P	★	9	60W Inc.	800	88	80	2700K	
14099396	E9A19DLED27/G6/BP	★	9	60W Inc.	800	88	80	2700K	
14099397	E9A19DLED30/G6	★	9	60W Inc.	800	88	80	3000K	
14099398	E9A19DLED40/G6	★	9	60W Inc.	800	88	80	4000K	
14099399	E11A19DLED27/G6	★	11	75W Inc.	1100	100	80	2700K	
14099400	E11A19DLED30/G6	★	11	75W Inc.	1100	100	80	3000K	
14099401	E11A19DLED40/G6	★	11	75W Inc.	1100	100	80	4000K	
14099402	E15A19DLED27/G6	★	15	100W Inc.	1600	106	80	2700K	2.36" x 4.61"
14099403	E15A19DLED30/G6	★	15	100W Inc.	1600	106	80	3000K	
14099404	E15A19DLED40/G6	★	15	100W Inc.	1600	106	80	4000K	

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ORDER CODE	MODEL	ENERGY STAR	WATTS	EQUIVALENCY	DELIVER LUMENS	EFFICACY (lm/W)	CRI	CCT	DIMENSIONS (W" x HOL")
GU24 Base									
14099405	E6A19GUDLED27/G6	★	6	40W Inc.	480	80	80	2700K	2.36" x 4.21"
14099406	E6A19GUDLED30/G6	★	6	40W Inc.	480	80	80	3000K	
14099407	E6A19GUDLED40/G6	★	6	40W Inc.	480	80	80	4000K	
14099408	E9A19GUDLED27/G6	★	9	60W Inc.	800	89	80	2700K	
14099409	E9A19GUDLED30/G6	★	9	60W Inc.	800	89	80	3000K	
14099410	E9A19GUDLED40/G6	★	9	60W Inc.	800	89	80	4000K	
100759	E9A19GUDLED50/G6	★	9	60W Inc.	800	89	80	5000K	
14099411	E11A19GUDLED27/G6	★	11	75W Inc.	1100	100	80	2700K	
14099412	E11A19GUDLED30/G6	★	11	75W Inc.	1100	100	80	3000K	
14099413	E11A19GUDLED40/G6	★	11	75W Inc.	1100	100	80	4000K	
14099414	E15A19GUDLED27/G6	★	15	100W Inc.	1600	106	83	2700K	2.36" x 4.61"
14099415	E15A19GUDLED30/G6	★	15	100W Inc.	1600	106	83	3000K	
14099416	E15A19GUDLED40/G6	★	15	100W Inc.	1600	106	83	4000K	

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COMPATIBLE DIMMERS FOR E6A19DLEDXX/G6 & E6A19GUDLEDXX/G6:

BRAND	MODEL	COMPATIBLE	BRAND	MODEL	COMPATIBLE	BRAND	MODEL	COMPATIBLE
ADRONE	ADPD453LW2	NO	LUTRON	CTCL-153PDH-WH	YES	LUTRON	S-603PGH-WH	NO
	ADTP703TUW4	YES		D-600PH-3CK	NO		S-603PH-WH	NO
	ADWR703HW4	YES		D-600PH-DK	YES		SCL-153P-WH	NO
AH	SDM600	YES		D-600R-IV	YES		SCL-153PH-WH	NO
	SDM3/1000	NO		D-600R-WH	YES		SCL-153PH-WH	YES
CONFORTO COMODIDADE	DLE-01	NO		D-600RH-DK	YES		TG-600PH-IV	YES
COOPER	AAL06-C1	NO		DV-600P-WH	NO		TG-600PH-WH	NO
	DAL06P-C2-K	NO		DV-600PH-WH	YES		TG-600PNLH-WH	NO
	SAL06P-W-K	NO		DV-603P	NO		TG-603PGH-WH	NO
	TAL06P-C2-K	NO		DV-603PH-WH	YES		TGCL-153PH-WH	YES
CTL	DM600-12-3	YES		DV-603PH-WH	YES		TGCL-153PH-WH	NO
EATON	AAL06-C1	NO		DV-603PPR	NO	LUX	DM600-12	YES
	SAL06P-LA-K	NO		DVCL-153P-WH	YES		MEW-DM600	YES
	TAL06P1-C5	NO		DVCL-153P-WH	NO	RHINE	UC7067RYE	NO
GE	18024	NO		DVCL-153P-WH-3	YES	TAANCIL	Dm-L13B	NO
HALO	SAL06P-W-HALOGF2	NO		DVCL-153PH	NO			
LEGRAND	HCL453PTC	YES		DVCL-153PR-WH	YES			
	RHCL453PW	YES		DVCL-253PH	YES			
LEVITON	6681	YES		DVELV-300P-WH	NO			
	6684	YES		DVELV-303P-WH	YES			
	603-6631-A	YES		DVW-600PH-WH	NO			
	6631-A	YES		DVWCL-153PH-WH	NO			
	6631-LA	YES		DVWCL-153PH-WHC	NO			
	6631-LA	NO		LECL-153PH-WH	YES			
	6683	NO		LGCL-153CL	NO			
	6693-10Z	YES		MACL-153M-WH	YES			
	6683-W	NO		MACL-153MH-WH	YES			
	IPED4-1LZ 400VA	NO		MACL-153MLH-WH	YES			
	IP106	NO		MACL-153MLRH-WH	YES			
	IP106-1LZ	YES		MACL-153MR-WH	YES			
	IP110-1LZ	NO		MAELV-600-WH	YES			
	NO 6631	YES		MAW-600	NO			
	NO 6672	YES		MAW-600H-AL	NO			
	NO 6674	NO		MAW-600H-WH	NO			
	NO 6681	NO		MIR-600TH-WH	NO			
	NO 6691	NO		MRF2-6CL-WH	NO			
	NO IPL06	YES		MSCL-OP153MH-WH	YES			
	S-600P-WH	NO		PD-6WCL-WH-P	NO			
LUS	DM600-15L	NO		S-10PH	YES			
LUTRON	AY-600PH-WH	NO		S-600	YES			
	AYCL-153P-WH	YES		S-600-AL	YES			
	AYCL-153PH	YES		S-600-IV	YES			
	CT-103P-WH	YES		S-600H-WH	YES			
	CT-600PR-WH	NO		S-600P-WH	NO			
	CTCL-153P-WH	NO		S-600PR-WH	NO			

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COMPATIBLE DIMMERS FOR E9A19DLEDXX/G6 & E9A19GUDLEDXX/G6:

BRAND	MODEL	COMPATIBLE	BRAND	MODEL	COMPATIBLE	BRAND	MODEL	COMPATIBLE
ADARNE	ADPD453LW2	YES	LUTRON	CTCL-153PDH-WH	YES	LUTRON	S-603PGH-WH	NO
	ADTP703TUW4	NO		D-600PH-3CK	NO		S-603PH-WH	NO
	ADWR703HW4	YES		D-600PH-DK	YES		SCL-153P-WH	NO
AH	SDM600	YES		D-600R-IV	YES		SCL-153PH-WH	NO
	SDM31000	NO		D-600R-WH	YES		SCL-153PH-WH	YES
CONFORTO COMODIDADE	DLE-01	NO		D-600RH-DK	YES		TG-600PH-IV	YES
COOPER	AAL06-C1	NO		DV-600P-WH	NO		TG-600PH-WH	NO
	DAL06P-C2-K	NO		DV-600PH-WH	YES		TG-600PNLH-WH	NO
	SAL06P-W-K	NO		DV-603P	NO		TG-603PGH-WH	NO
	TAL06P-C2-K	NO		DV-603PH-WH	YES		TGCL-153PH-WH	YES
CTL	DM600-12-3	YES		DV-603PH-WH	YES		TGCL-153PH-WH	NO
EATON	AAL06-C1	NO		DV-603PR	NO	LUX	DM600-12	YES
	SAL06P-LA-K	NO		DVCL-153P-WH	YES		MEW-DM600	YES
	TAL06P1-C5	NO		DVCL-153P-WH	NO	RHINE	UC7067RYE	NO
GE	18024	NO		DVCL-153P-WH-3	YES	TAANCIL	Dim-L13R	NO
HALO	SAL06P-W-HALOGF2	NO		DVCL-153PH	NO			
LEGRAND	HCL453PTC	YES		DVCL-153PH-WH	YES			
	RHCL453PW	YES		DVCL-253PH	YES			
LEVITON	6681	YES		DVELV-300P-WH	NO			
	6684	YES		DVELV-303P-WH	YES			
	603-6631-A	YES		DVW-600PH-WH	NO			
	6631-A	YES		DVWCL-153PH-WH	NO			
	6631-LA	YES		DVWCL-153PH-WHC	NO			
	6631-LA	NO		LECL-153PH-WH	YES			
	6683	NO		LGCL-153CL	NO			
	6683-10Z	YES		MACL-153M-WH	YES			
	6683-1W	NO		MACL-153MH-WH	YES			
	IFE04-1LZ 400VA	NO		MACL-153MLH-WH	YES			
	IP106	NO		MACL-153MLRH-WH	YES			
	IP106-1LZ	YES		MACL-153MR-WH	YES			
	IP110-1LZ	NO		MAELV-600-WH	YES			
	NO 6631	YES		MAW-600	NO			
	NO 6672	YES		MAW-600H-AL	NO			
	NO 6674	NO		MAW-600H-WH	NO			
	NO 6681	NO		MIR-600TH-WH	NO			
	NO 6681	NO		MRF2-6CL-WH	NO			
	NO IFL06	YES		MSCL-OP153MH-WH	YES			
	S-600P-WH	NO		PD-6WCL-WH-P	NO			
LUS	DM600-15L	NO		S-10PH	YES			
LUTRON	AY-600PH-WH	NO		S-600	YES			
	AYCL-153P-WH	YES		S-600-AL	YES			
	AYCL-153PH	YES		S-600-IV	YES			
	CT-103P-WH	YES		S-600H-WH	YES			
	CT-600PR-WH	NO		S-600P-WH	NO			
	CTCL-153P-WH	NO		S-600PR-WH	NO			

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COMPATIBLE DIMMERS FOR E11A19DLEDXX/G6 & E11A19GUDLEDXX/G6:

BRAND	MODEL	COMPATIBLE	BRAND	MODEL	COMPATIBLE	BRAND	MODEL	COMPATIBLE
ADRONE	ADPD453LW2	NO	LUTRON	CTCL-153PDH-WH	YES	LUTRON	S-603PGH-WH	NO
	AD1P703TLW4	NO		D-600PH-3CK	NO		S-603PH-WH	NO
	ADWR703H-W4	NO		D-600PH-DK	YES		SCL-153P-WH	YES
AH	SDM600	NO		D-600R-IV	NO		SCL-153PH-WH	NO
	SDM3/1000	NO		D-600R-WH	NO		SCL-153PH-WH	YES
CONFORTO COMFORTAGE	DLE-01	YES		D-600PH-DK	YES		TG-600PH-IV	NO
COOPER	AAL06-C1	NO		DV-600P-WH	YES		TG-600PH-WH	YES
	DAL06P-C2-K	NO		DV-600PH-WH	YES		TG-600PNLH-WH	NO
	SAL06P-W-K	NO		DV-603P	YES		TG-603PGH-WH	NO
	TAL06P-C2-K	NO		DV-603PH-WH	YES		TGCL-153PH-WH	NO
CTL	DM600-12-3	YES		DV-603PH-WH	NO		TGCL-153PH-WH	YES
EATON	AAL06-C1	NO		DV-603PR	NO	LUX	DM600-12	NO
	SAL06P-LA-K	NO		DVCL-153P-WH	YES		MEW-DM600	YES
	TAL06P1-C5	NO		DVCL-153P-WH	YES	OLEGRAND	UC7067RYE	YES
GE	18024	NO		DVCL-153P-WH-3	YES	RHINE	Dim-L13B	YES
HALO	SAL06P-W-HALOGF2	NO		DVCL-153PH	YES	TAANCIL	Dim-L13B	YES
LEGRAND	HCL453PTC	YES		DVCL-153PR-WH	YES			
LEVITON	RHCL453PW	YES		DVCL-253PH	YES			
	6681	NO		DVELV-300P-WH	NO			
	6684	NO		DVELV-303P-WH	YES			
	603-6631-A	NO		DVW-600PH-WH	NO			
	6631-A	NO		DVWCL-153PH-WH	YES			
	6631-LA	YES		DVWCL-153PH-WHC	YES			
	6631-LA	NO		LECL-153PH-WH	YES			
	6683	NO		LGCL-153CL	NO			
	6683-10Z	NO		MACL-153M-WH	YES			
	6683-1W	NO		MACL-153MH-WH	YES			
	IPE04-1LZ 400VA	NO		MACL-153MLH-WH	YES			
	IPI06	YES		MACL-153MLRH-WH	YES			
	IPI06-1LZ	YES		MACL-153MR-WH	YES			
	IPI10-1LZ	NO		MAELV-600-WH	YES			
	NO 6631	YES		MAW-600	NO			
	NO 6672	YES		MAW-600H-AL	YES			
	NO 6674	YES		MAW-600H-WH	NO			
	NO 6681	NO		MIR-600TH-WH	NO			
	NO 6681	YES		MRF2-6CL-WH	NO			
	NO IPL06	YES		MSCL-OP153MH-WH	YES			
LUS	S-600P-WH	NO		PD-6WCL-WH-P	NO			
LUTRON	DM600-15L	NO		S-10PH	YES			
	AY-600PH-WH	YES		S-600	YES			
	AYCL-153P-WH	YES		S-600-AL	NO			
	AYCL-153PH	YES		S-600-IV	YES			
	CT-103P-WH	YES		S-600H-WH	YES			
	CT-600PR-WH	YES		S-600P-WH	NO			
	CTCL-153P-WH	NO		S-600PR-WH	NO			

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COMPATIBLE DIMMERS FOR E15A19DLEDXX/G6 & E15A19GUDLEDXX/G6:

BRAND	MODEL	COMPATIBLE	BRAND	MODEL	COMPATIBLE	BRAND	MODEL	COMPATIBLE
ADRONE	ADPD453LW2	NO	LUTRON	CTCL-153PDH-WH	YES	LUTRON	S-603PGH-WH	NO
	ADTP703TJW4	NO		D-600PH-3CK	NO		S-603PH-WH	NO
	ADWR703HW4	NO		D-600PH-DK	YES		SCL-153P-WH	YES
AH	SDM/600	NO		D-600R-IV	NO		SCL-153PH-WH	NO
	SDM3/1000	NO		D-600R-WH	NO		SCL-153PH-WH	YES
CONFORTE COMODIDADE	CLE-01	YES		D-600RH-DK	YES		TG-600PH-IV	NO
	AAL06-C1	NO		DV-600P-WH	YES		TG-600PH-WH	YES
COOPER	DAL06P-C2-K	NO		DV-600PH-WH	YES		TG-600PNLH-WH	NO
	SAL06P-W-K	NO		DV-603P	YES		TG-603PGH-WH	NO
	TAL06P-C2-K	NO		DV-603PH-WH	YES		TGCL-153PH-WH	NO
CTL	DM600-12-3	YES		DV-603PH-WH	NO		TGCL-153PH-WH	YES
	AAL06-C1	NO		DV-603PR	NO		TGCL-153PLH-WH	NO
EATON	SAL06P-LA-K	NO	LUTRON	DVCL-153P-WH	YES	LUX	DM600-12	NO
	TAL06P1-C5	NO		DVCL-153P-WH	YES	MAXXIMA	MEW-DM600	YES
GE	18024	NO		DVCL-153P-WH-3	YES	RHINE	UC7067RYE	YES
HALO	SAL06P-W-HALOGF2	NO		DVCL-153PH	YES	TAANCIL	Dim-L13B	YES
LEGRAND	HCL453PTC	YES		DVCL-153PR-WH	YES			
	RHCL453PW	YES		DVCL-253PH	YES			
LEVITON	6681	NO		DVELV-300P-WH	NO			
	6684	NO		DVELV-303P-WH	YES			
	603-6631-A	NO		DVW-600PH-WH	NO			
	6631-A	NO		DVWCL-153PH-WH	YES			
	6631-LA	YES		DVWCL-153PH-WHC	YES			
	6631-LA	NO		LECL-153PH-WH	YES			
	6693	NO		LGCL-153CL	NO			
	6683-10Z	NO		MACL-153M-WH	YES			
	6683-IW	NO		MACL-153MH-WH	YES			
	IPE04-1LZ 400VA	NO		MACL-153MLH-WH	YES			
	IP106	YES		MACL-153MLR-WH-WH	YES			
	IP106-1LZ	YES		MACL-153MR-WH	YES			
	IP110-1LZ	NO		MAELV-600-WH	YES			
	NO 6631	YES		MAW-600	NO			
	NO 6672	YES		MAW-600H-AL	YES			
	NO 6674	YES		MAW-600H-WH	NO			
	NO 6681	NO		MIR-600TH-WH	NO			
	NO 6681	YES		MRF2-6CL-WH	NO			
	NO IPL06	YES		MSCL-OP153MH-WH	YES			
LUS	S-600P-WH1	NO		PD-6WCL-WH1-P	NO			
	DM600-15L	NO		S-10PH	YES			
LUTRON	AY-600PH-WH	YES		S-600	YES			
	AYCL-153P-WH	YES		S-600-AL	NO			
	AYCL-153PH	YES		S-600-IV	YES			
	CT-103P-WH	YES		S-600H-WH	YES			
	CT-600PR-WH	YES		S-600P-WH	NO			
	CTCL-153P-WH	NO		S-600PR-WH	NO			

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