

DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_  
 CATALOG #: \_\_\_\_\_

PROVIDENCE®



Providence Small

**FEATURES**

- Reliable, uniform, glare free illumination
- Types II, III, IV and V distributions
- 3000K, 4000K, 5000K CCT
- 0-10V dimming ready
- Integral 6kV surge suppression



**SPECIFICATIONS**

**OPTICAL MODULE**

- Light emitting diode (LED) assembly shall be sealed to a die-cast anodized aluminum heat sink with an injection molded silicone rubber gasket and stainless steel bezel, IP66
- LED optics shall be injection molded PMMA acrylic and be mounted to a metal printed circuit board with a uniform conformal coating over the panel surface and electrical features

**INSTALLATION**

- Existing luminaires shall be required to be taken down for disassembly of pre-existing optical and electrical components
- Estimated time for installation of the upgrade kit into an existing luminaire is 25 minutes

**ELECTRICAL**

- Upgrade kit shall have integral surge protection that shall be U.L. recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J.
- Drivers shall be U.L. recognized with an inrush current maximum of <20.0 Amps maximum at 230VAC.
- Existing luminaires may not have 0-10V control leads in place prior to the upgrade kit, consult factory for dimming and control solutions

**CERTIFICATIONS**

- Upgrade kits shall be listed with ETL for outdoor, wet location use, UL1598, UL 8750 and Canadian CSA Std. C22.2 no.250

**WARRANTY**

- 5 year warranty

**ORDERING GUIDE**

Example: PROS-LKY2-2040

CATALOG #

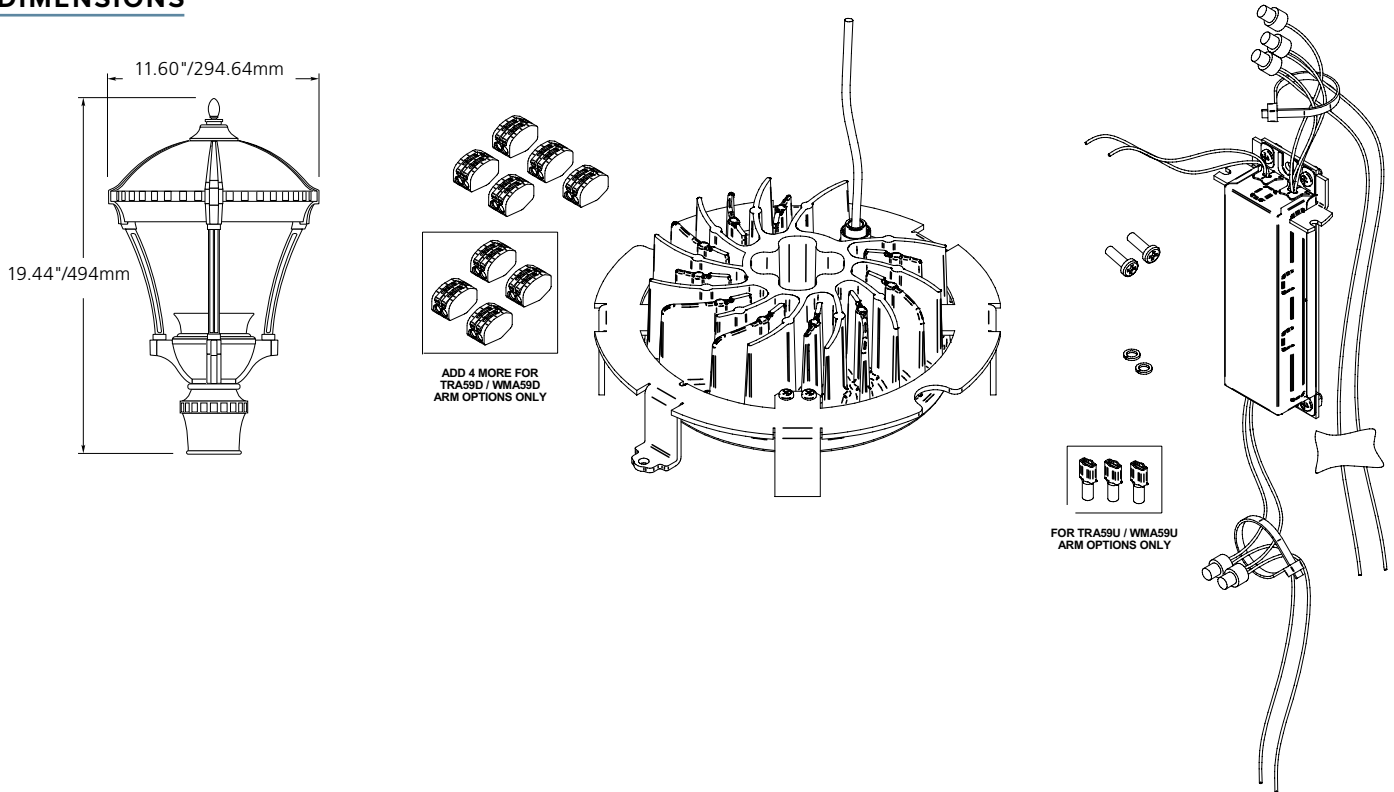
Upgrade Kits		Distribution	Lumen Package	
PROS-LK Providence Small LED Upgrade Kit	Y2	Type 2	2030	3000K CCT, 25 watts
	Y3	Type 3	2040	4000K CCT, 25 watts
	Y4	Type 4	2050	5000K CCT, 25 watts
	Y5	Type 5	3030	3000K CCT, 43 watts
			3040	4000K CCT, 43 watts
		3050	5000K CCT, 43 watts	

**DELIVERED LUMENS**

The table below shows the delivered lumens for the various lumen outputs and beam distributions. Use this chart in connection with the lumen factor (LF) capability to deliver any output required.

System Watts	Lumen Package	Lens	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
				Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)
					B	U	G			B	U	G			B	U	G	
25	2000	Clear Lens (Standard)	Type 2	1792	1	0	1	72	1957	1	0	1	78	1951	1	0	1	78
			Type 3	1830	1	0	1	73	1970	1	0	1	79	1958	1	0	1	78
			Type 4W	1793	0	0	1	72	1957	0	0	1	78	1960	0	0	1	78
			Type 5	1735	1	0	1	69	1894	1	0	1	76	1889	1	0	1	76
		Lightly Diffused Lens	Type 2	1216	1	1	1	49	1361	1	1	1	54	1387	1	1	1	55
			Type 3	1216	1	1	1	49	1361	1	1	1	54	1386	1	1	1	55
			Type 4W	1298	1	1	1	52	1417	1	1	1	57	1419	1	1	1	57
43	3000	Clear Lens (Standard)	Type 2	2975	1	0	1	69	3247	1	0	1	76	3238	1	0	1	75
			Type 3	3038	1	1	1	71	3270	1	0	1	76	3261	1	0	1	76
			Type 4W	2988	1	0	1	69	3262	1	0	1	76	3253	1	0	1	76
			Type 5	2892	2	0	1	67	3157	2	0	1	73	3148	2	0	1	73
		Lightly Diffused Lens	Type 2	2092	1	1	1	49	2342	1	1	1	54	2386	1	1	1	55
			Type 3	2091	1	1	1	49	2341	1	1	1	54	2385	1	1	1	55
			Type 4W	2164	1	1	1	50	2362	1	1	1	55	2356	1	1	1	55
			Type 5	1959	1	1	1	46	2193	1	1	1	51	2234	1	1	1	52

**DIMENSIONS**



## PHOTOMETRY

### PROS-Y2-3040

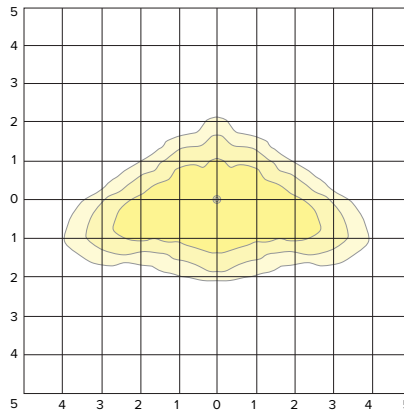
#### LUMINAIRE DATA

Description	3040K, 70CRI
Delivered Lumens	3247
Watts	43.2
Efficacy	75.2
IES Type	TYPE II, MEDIUM
BUG Rating	B1-U0-G1
Mounting Height	15 ft
Grid Scale	15 ft

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2229	68.6%
Downward House Side	1018	31.3%
Downward Total	3247	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	3247	100%

#### ISOFOOT CANDLE PLOT



### PROS-Y3-3040

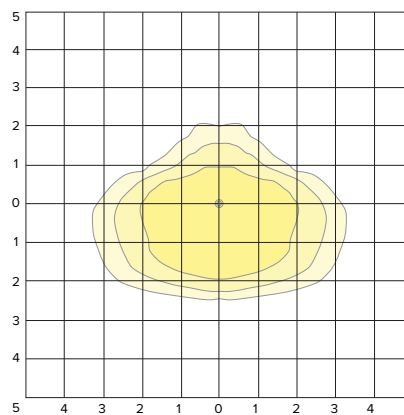
#### LUMINAIRE DATA

Description	3040K, 70CRI
Delivered Lumens	3270
Watts	43.2
Efficacy	75.7
IES Type	Type III
BUG Rating	B1-U0-G1
Mounting Height	15 ft
Grid Scale	15 ft

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2376	72.6%
Downward House Side	894	27.3%
Downward Total	3270	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	3270	100%

#### ISOFOOT CANDLE PLOT



### PROS-Y4W-3040

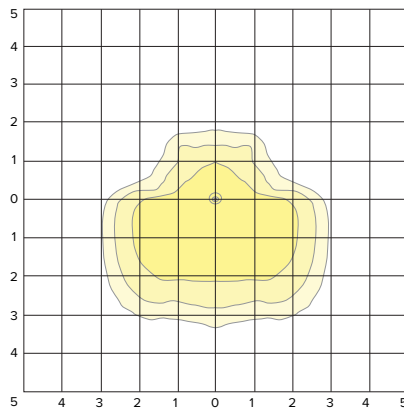
#### LUMINAIRE DATA

Description	3040K, 70CRI
Delivered Lumens	3262
Watts	43
Efficacy	75.9
IES Type	Type IV
BUG Rating	B1-U0-G1
Mounting Height	15 ft
Grid Scale	15 ft

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2670	81.9%
Downward House Side	592	18.2%
Downward Total	3262	100.1%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	3262	100%

#### ISOFOOT CANDLE PLOT



## PHOTOMETRY

PROS-Y5-3040

### LUMINAIRE DATA

Description	<b>3040K, 70CRI</b>
Delivered Lumens	<b>3157</b>
Watts	<b>42.8</b>
Efficacy	<b>73.8</b>
IES Type	<b>Type VS</b>
BUG Rating	<b>B2-U0-G1</b>
Mounting Height	<b>15 ft</b>
Grid Scale	<b>15 ft</b>

### ZONAL LUMEN SUMMARY

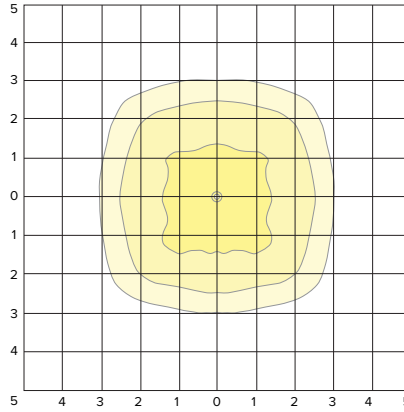
Zone	Lumens	% Luminaire
Downward Street Side	1594	50.5%
Downward House Side	1563	49.5%
Downward Total	3157	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	3157	100%

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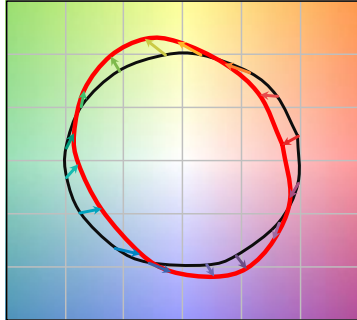
CATALOG #: \_\_\_\_\_

### ISOFOOT CANDLE PLOT



**TM-30 DATA**

**COLOR VECTOR GRAPHIC**

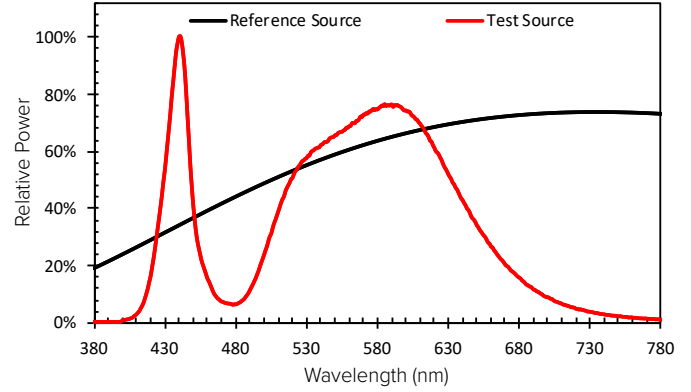


— Reference Illuminant — Test Source

**TEST SOURCE**

R <sub>f</sub>	68
R <sub>g</sub>	99
CCT(K)	3947
D <sub>uv</sub>	0.0004
x	0.3831
y	0.3793
CIE R <sub>a</sub>	72

**SPECTRAL POWER DISTRIBUTION COMPARISON**



**ELECTRICAL DATA**

Configuration	LED Drive mA	System Watts	Electrical Characteristics										Dimming				
			Line Voltage		Amps AC					Min. POWER FACTOR	Max THD (%)	Dimming Range	Source Current Out		Absolute Voltage		
			VAC	Hz	120	208	220	240	277				Min	Max	Min	Max	
2020	2000 series	255	25	120-277	50/60	0.35	0.15	0.35	0.15	0.15	≥.9	20	10% to 100%	0mA	1mA	0V	10V
2040																	
2050																	
3020	3000 series	400	42	120-277	50/60	0.21	0.09	0.21	0.09	0.09	≥.9	20	10% to 100%	0mA	1mA	0V	10V
3040																	
3050																	

TM-21 LIFETIME CALCULATION - PROJECTED LUMEN MAINTENANCE (25°C / 77°F)						
HOURS	0	25,000	36,000	50,000	100,000	REPORTED L70
Projected Lumen Maintenance	100%	99.0%	99.5%	98.0%	95.0%	>60000