



Outdoor Street Lighting Agreement

Discussion & Possible Action
City Council | August 2025



Category	Requirements
City code	<ul style="list-style-type: none">• Lighting code meets minimum requirements<ul style="list-style-type: none">○ 3000K max○ Shielded○ Amortization period○ Addresses signs, outdoor recreation, etc.
City compliance plan	<ul style="list-style-type: none">• Streetlights<ul style="list-style-type: none">✓ City-owned○ Utility-owned• City properties✓ Community outreach/incentive
Community support	<ul style="list-style-type: none">• Nomination• Letters of support
Education	<ul style="list-style-type: none">• Two events• Photos of events• Documentation of outreach
Evidence of light pollution control	<ul style="list-style-type: none">• Documentation of changes<ul style="list-style-type: none">○ City○ Residential○ Businesses
Measurement program	<ul style="list-style-type: none">• Track sky quality• Volunteer program

“Enhance Moab’s rural character through protection of the natural darkness of the night sky.”
- Moab General Plan, Element 2, Goal 2, Policy 2

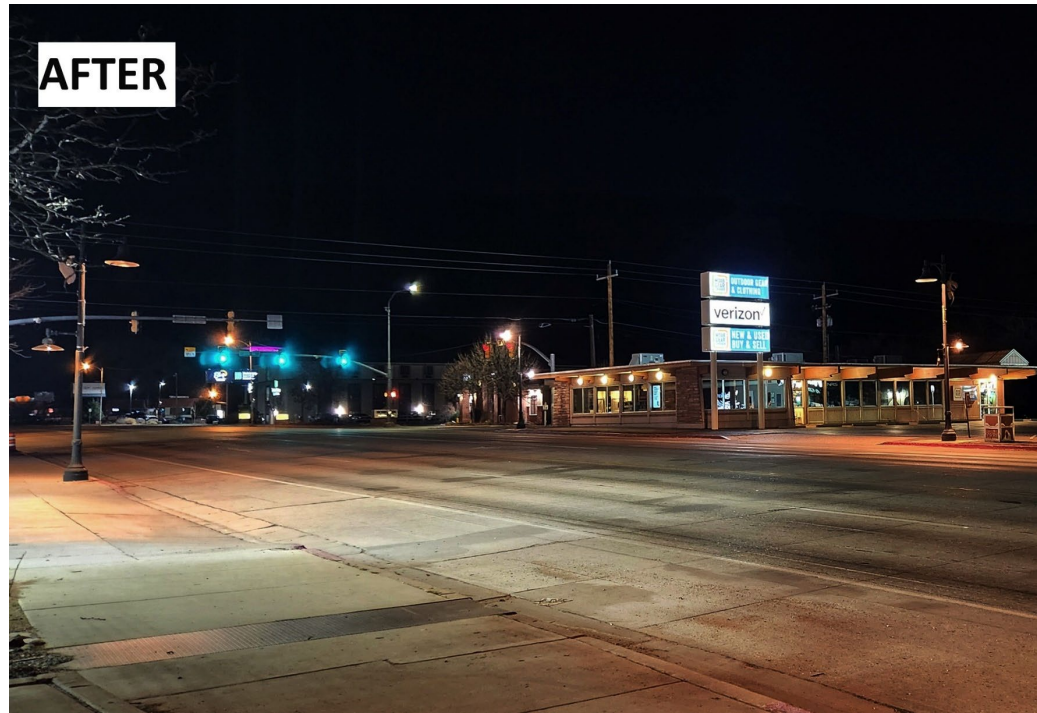
City Decorative Streetlights

Fall 2024

BEFORE



AFTER



Rocky Mountain Power Streetlights



Units: Lumens, Watts, Kelvin & CRI

- **Lumens = Brightness**
- **Watts = Power used**
 - Lower lumen lights use fewer watts.
- **Kelvin = Color of light**
 - Kelvin does not impact lumens/watts.
- **Color Rendering Index = Fidelity of color reflected by objects**

LEDs use fewer watts to emit similar brightness (lumens) in a variety of colors.

Lamp Type	Lumens	Watts
Level 1	2910	22
Level 2	4850	36
Level 2 Post Top	4500	44
Level 4	9600	76
Level 5	13400	110

LED Street Light Fixtures



Post Top

Level: 2

- No lens

High
Pressure
Sodium
2000K

Dark Sky-
Compliant
3000K



Cobrahead

Levels: 1 – 6

- A comfort lens is available to diffuse the light and costs \$6/fixture.
- Shields are available for one side and cost ~\$85/fixture, installed.



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Low Pressure
Sodium -47 CRI

High Pressure
Sodium 25 CRI

Mercury Lamp
43 CRI

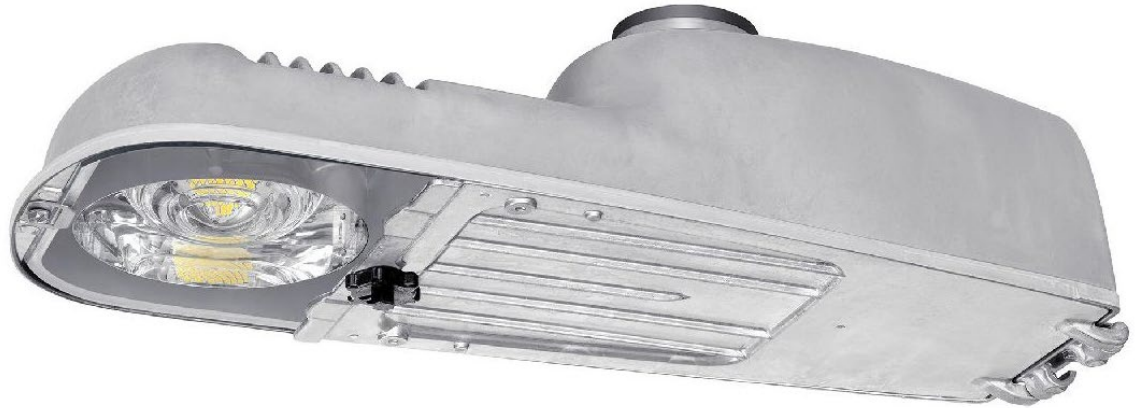
New LED
70 CRI

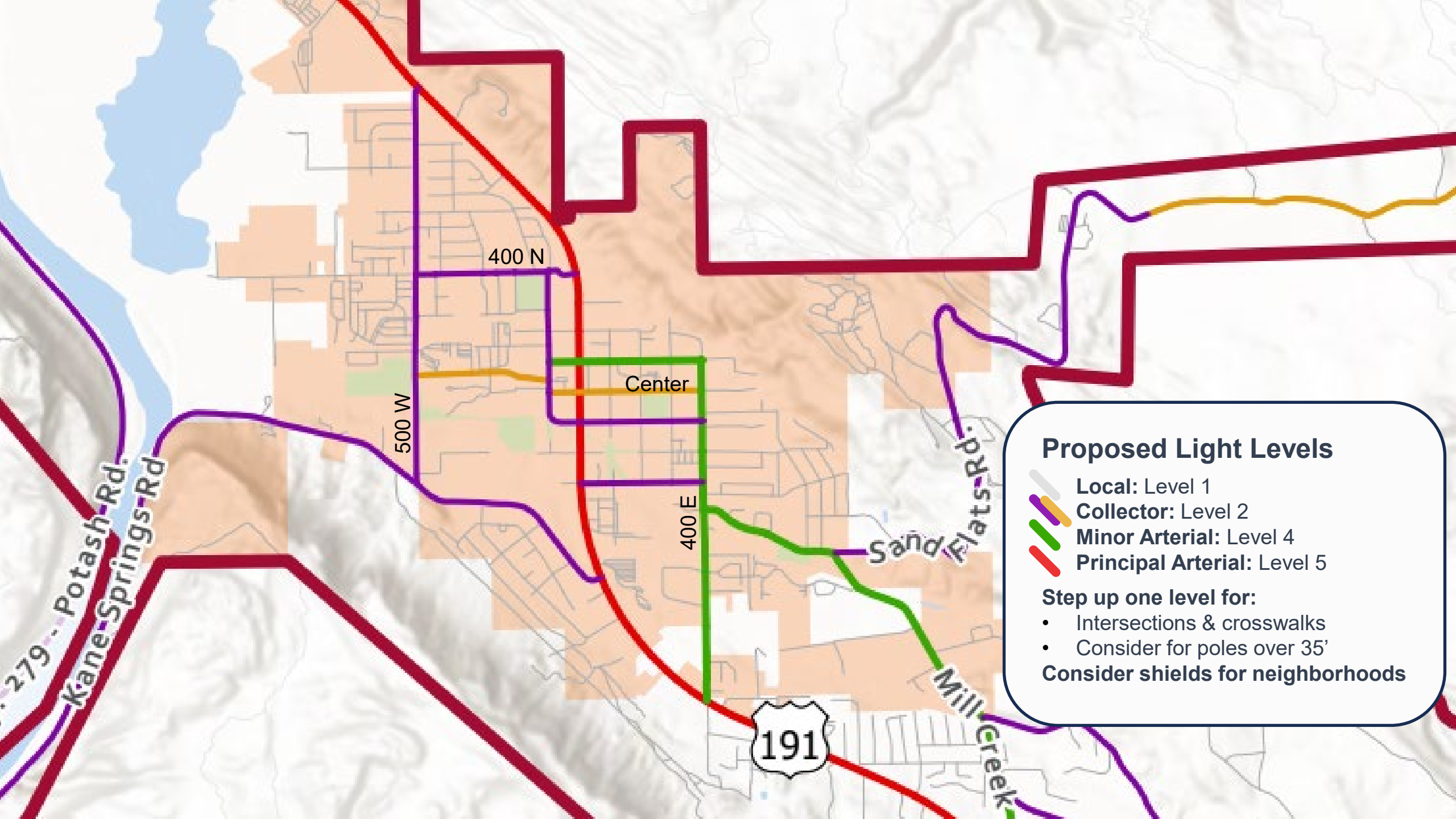
Incandescent
100 CRI

Area Light Incentive

Barn Light replacement

- Opt in for a discounted \$210/fixture
- Bulk ordered and installed when the crew is in Moab
- Efficient & Compliant with city code
 - 3000K
 - 43 watts, 5090 lumens
 - Shield option available
- RMP will also be removing any lights that do not have a responsible party





Proposed Light Levels

- Local: Level 1
- Collector: Level 2
- Minor Arterial: Level 4
- Principal Arterial: Level 5

Step up one level for:

- Intersections & crosswalks
- Consider for poles over 35'

Consider shields for neighborhoods

Worksheet Date: 7/31/2025

Districts Included: American Fork, Cedar City, Dixie, Moab, Park City, Price, Richfield, Santaquin, Vernal

City of / Customer:	Moab		CSS Acct #	58922956-001	
RMP Rates	Services	Count of Lights	Current Light Lumens	Current Monthly Base Rate (per Unit)	Current Monthly Total
Schedule 11 RMP Owned Streetlighting	HPS 70W - Functional		5,600	\$11.82	\$0.00
	HPS 100W - Functional	246	9,500	\$12.74	\$3,134.04
	HPS 100W - Post-Top	9	9,500	\$12.74	\$114.66
	HPS 150W - Functional	71	16,000	\$13.19	\$936.49
	HPS 200W - Functional	22	22,000	\$13.71	\$301.62
	HPS 250W - Functional	26	27,500	\$14.60	\$379.60
	LED Level 5 4000K	1	14,000	\$14.60	\$14.60
		375			\$4,881.01

CCT Choice:		3000K or 4000K	3000K		
Post-LED Conversion All on Schedule 11	Count of Lights	Proposed LED Lumens	Proposed Monthly LED Base Rate	Proposed LED Monthly Total	Net Monthly Billing Difference
Level 1 Customer Funded	184	Less than 3,500	\$6.04	\$1,111.36	-\$1,111.36
Level 2 Customer Funded	69	3,501 - 5,500	\$6.57	\$453.33	\$2,680.71
Level 2 PT Customer Funded	9	3,501 - 5,500	\$6.57	\$59.13	\$55.53
Level 3 Customer Funded		5,501 - 8,000	\$6.99	\$0.00	\$936.49
Level 4 Customer Funded	45	8,001 - 12,000	\$7.46	\$335.70	-\$34.08
Level 5 Customer Funded	68	12,001 - 15,500	\$8.00	\$544.00	-\$164.40
	375			\$2,503.52	\$2,362.89
ESTIMATED ANNUAL SAVINGS-->					\$28,354.68

2025 PROJECT COST - SOUTHERN // TIER 4

Functional	Conversion Project	Count of Lights	Labor	Material	Total
Level 1	Less than 3,500	184	\$95.26	\$116.00	\$38,871.84
Level 2	3,501 - 5,500	69	\$95.26	\$124.00	\$15,128.94
Level 3	5,501 - 8,000		\$95.26	\$129.00	\$0.00
Level 4	8,001 - 12,000	45	\$95.26	\$163.00	\$11,621.70
Level 5	12,001 - 15,500	68	\$95.26	\$193.00	\$19,601.68
Level 6	15,501 - Greater		\$95.26	\$333.00	\$0.00
Level 2 Post-Top	3,501 - 5,500	9	\$95.26	\$331.00	\$3,836.34
		375			\$89,060.50

Avg Cost per Light \$237.49

Project Cost	\$89,060.50	3.14 Years for R.O.I.
Annual Savings	\$28,354.68	

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Level 2	3,501 - 5,500	69	\$95.26	\$130.00	\$15,542.94
Level 3	5,501 - 8,000		\$95.26	\$135.00	\$0.00
Level 4	8,001 - 12,000	45	\$95.26	\$163.00	\$11,621.70
Level 5	12,001 - 15,500	68	\$95.26	\$193.00	\$19,601.68
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Level 2 Post-Top	3,501 - 5,500	9	\$95.26	\$331.00	\$3,836.34
		375			\$90,578.50

Avg Cost per Light \$241.54

Project Cost	\$90,578.50	3.19 Years for R.O.I.
Annual Savings	\$28,354.68	

Questions

Bryan Haile