06-16-2023 LETTING ITEM 051

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-4

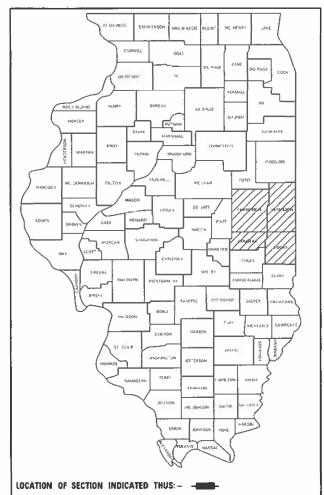
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

## VAR, D5 LIGHTING REPAIRS 2024-2 VARIOUS

#### D-95-029-23



#### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

May 12, 2023

May 12, 2023

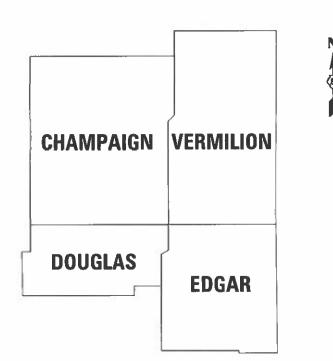
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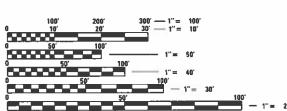
OF THE STATE OF ILLINOIS

# **PROPOSED** HIGHWAY PLANS

**VARIOUS ROUTES SECTION D5 LIGHTING REPAIRS 2024–2 PROJECT** EAST FIELD AREA ON-CALL LIGHTING REPAIRS **VARIOUS COUNTIES** 

C-95-042-23





ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123 TOWNSHIPS: OR 811 VARIOUS

PROJECT ENGINEER: RYAN CARROLL **SQUAD LEADER: CLARE DIETZ DESIGNER: KARY DAWSON** PHONE NUMBER: (217) 465-4181 CONTRACT NO. 70G54

#### **INDEX OF SHEETS**

<u>SHEET</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	INDEX OF SHEETS & LIST OF HIGHWAY STANDARDS
2	GENERAL NOTES
3 - 4	SUMMARY OF QUANTITIES
5	LUMINAIRE PERFORMANCE TABLE

### **GENERAL NOTES**

G.N.-100A

ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

#### **COMMITMENTS**

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

#### **HIGHWAY STANDARDS**

<u>STANDARD</u>	<u>DESCRIPTION</u>
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701206-05	LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS $\geq$ 45 MPH
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS $\geq$ 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS $\geq$ 45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS $\geq$ 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS $\leq$ 40 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES

 USER NAME
 = Kary.Dawson
 DESIGNED
 REVISED

 DRAWN
 REVISED

 PLOT SCALE
 = 40.0000 ' / in.
 CHECKED
 REVISED

 PLOT DATE
 = 5/11/2023
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

# **SUMMARY OF QUANTITIES**

LOCATION OF WORK:	VARIOUS ROUTES	VARIOUS ROUTES	VARIOUS ROUTES
	VARIOUS COUNTIES	VARIOUS COUNTIES	VARIOUS COUNTIES
FUNDING BREAKOUT:	100% MCHD	100% STATE	100% STATE
		CONTRACT MAINTENANCE	ITS
CONSTRUCTION TYPE CODE:	0021	0021	0021

CODE NO.	ITEM	<u>UN I T</u>	TOTAL QUANTITY			
82110005	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E	EACH	5.00	2.00	2.00	1.0
82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	5.00	2.00	2.00	1.
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	5.00	2.00	2.00	1.
83003600	LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. DAVIT ARM	EACH	5.00	2.00	2.00	1.
83012400	LIGHT POLE, ALUMINUM, 45 FT. M.H., TENON MOUNT	EACH	5.00	2.00	2.00	1.
02050020	LIGHT DOLE CALVANIZED CTEEL AS ST. M. H. TENON MOUNT	FACIL	5.00	2.00	2.00	1
83060830	LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., TENON MOUNT	EACH	5.00	2.00	2.00	1.
X1400365	ELECTRICIAN HELPER	HOUR	300.00	125.00	125.00	50.
X1400303	ELECTRICIAN HELPER	TIOOK	300.00	123,00	123.00	30,
XP000001	JOURNEYMAN ELECTRICIAN	HOUR	400.00	167.00	167.00	66.
XP000009	PICK-UP TRUCK	HOUR	200.00	83.00	83.00	34.
XP000012	ARROWBOARD (TRAILER MOUNTED)	HOUR	20.00	8.00	8,00	4.
XP000013	ATTENUATOR, CRASH (TRUCK MOUNTED)	HOUR	24.00	10.00	10.00	4.
XP000015	DIGGER DERRICK	HOUR	40.00	17.00	17.00	6
XP000029	BUCKET TRUCK/VAN FOR TRAFFIC SIGNALS	HOUR	150.00	63.00	63.00	24
XP000030	BUCKET TRUCK FOR HIGHWAY LIGHTING	HOUR	200.00	83.00	83.00	34

USER NAME = Kary.Dawson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 / in	CHECKED -	REVISED -
PLOT DATE = 5/11/2023	DATE -	REVISED -

										F.A. RTE.	9	SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.
		3	SUIVIN	IA	KY	U	F QU	ANTITIES		VAR.	D5 LIGHTIN	IG F	REPAIRS	2024-2	VARIOUS	5	3
													CONTRAC <sup>-</sup>	F NO. 70	)G54		
	SHEET	1	OF		2	SI	HEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT				ID PROJECT		

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# **SUMMARY OF QUANTITIES**

LOCATION OF WORK:	VARIOUS ROUTES	VARIOUS ROUTES	VARIOUS ROUTES
	VARIOUS COUNTIES	VARIOUS COUNTIES	VARIOUS COUNTIES
FUNDING BREAKOUT:	100% MCHD	100% STATE	100% STATE
		CONTRACT MAINTENANCE	ITS
CONSTRUCTION TYPE CODE:	0021	0021	0021

			1		1	
CODE NO.	<u>ITEM</u>	<u>UNIT</u>	TOTAL QUANTITY			
XP000031	POLE TRAILER	HOUR	40.00	17.00	17.00	6.00
XP000310	REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, COUPLINGS	EACH	5.00	2.00	2.00	1.00
XP000311	REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, TRANSFORMER BASE	EACH	5.00	2.00	2.00	1.00

MODEL: Default

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

L	ILLINOIS DEPARTMENT OF TRANSPOR LUMINAIRE PERFORMANCE TAE ED replacement for 250W HPS Horizontal Mou	BLE		ì	ILLINOIS DEPARTMENT OF TRANS LUMINAIRE PERFORMANCE ED replacement for 400W HPS Horizontal	TABLE			ILLINOIS DEPARTMENT OF TRANS LUMINAIRE PERFORMANCE LED Replacement for 250W HPS Multi-M (replacement luminaire shall be mounted)	TABLE lount Luminaire
	GIVEN CONDITIONS				GIVEN CONDITIONS				GIVEN CONDITIONS	
ROADWAY DATA	Lane Width	12 ft		ROADWAY DATA	Lane Width	12 ft				
NOADWAY DATA	Number of Lanes (In One Direction Only)	3			Number of Lanes (in One direction Only)  Median Width	4		ROADWAY DATA	Lane Width  Number of Lanes (One Direction Only)	12 ft 3
	Median Width	0 ft			I.E.S. Surface Classification	0 ft R3			Median Width	0 ft
	I.E.S. Surface Classification	R3			Q-Zero Value	.07			I.E.S. Surface Classification	R3
	Q-Zero Value	.07							Q-Zero Value	.07
LIGHT POLE DATA	Mounting Height	45 ft		LIGHT POLE DATA	Mounting Height	45 ft		LIGHT POLE DATA	Mounting Height	45 ft
	Luminaire Overhang From	0 ft			Luminaire Overhang From Edge of Pavement (White Line)	0 ft		LIGHT POLE DATA	Luminaire Overhang From	
	Edge of Pavement (White Line)								Edge of Pavement (White Line)	-30 ft
LUMINAIRE DATA	Luminaire Type	LED			naire Type I.E.S. Vertical Distribution	LED Medium		LUMINAIRE DATA	Luminaire Type	LED
	I.E.S. Vertical Distribution	Medium			BUG Rating	viedium U = 0			I.E.S. Vertical Distribution	Medium
	BUG Rating I.E.S. Lateral Distribution	U = 0 Type II or III			I.E.S. Lateral Distribution	Type II or			BUG Rating	U = 0
	Total Light Loss Factor	0.684			Total Light Loss Factor	0.684			I.E.S. Lateral Distribution	Type III or IV
				Lavour Dava	Spacing	240 4			Total Light Loss Factor	0.684
LAYOUT DATA	Spacing	160 ft		LAYOUT DATA	Configuration	240 ft One Side		LAYOUT DATA	Spacing	145 ft
	Configuration	One Sided				Offe Side	eu .		Configuration	One Sided
NOTES:				NOTES:		- 272 (VA - 0.00 RAIN - 0.7777)		NOTES:		
	ht loss factor is the product of "Lumen Depreciation" (L and "Equipment factors" (EF) = 0.95.	LLD) = 0.90, "Dirt Depreciation" (LD	DF)		ght loss factor is the product of "Lumen Depreciation and "Equipment factors" (EF) = 0.95.	on" (LLD) = 0.90, "Dirt Deprecia	(LDF)	1. Total li	ght loss factor is the product of "Lumen Depreciati and "Equipment factors" (EF) = $0.95$ .	on" (LLD) = 0.90, "Dirt Depreciation" (LDF)
	PERFORMANCE REQUIREMENTS				PERFORMANCE REQUIREMENTS					
NOTE: There I		ahatamatika at taun 18		NOTE: There were	ance requirements shall be the asset black	te of photomotric nada	o for the		PERFORMANCE REQUIREMENT	5
	nce requirements shall be the acceptable standards of given conditions listed above.	photometric performance for the			ance requirements shall be the acceptable standar e given conditions listed above.	is of photometric performance	e for the		ance requirements shall be the acceptable standar	ds of photometric performance for the
		agrajiji unizifumi.						luminaire, based on th	e given conditions listed above.	
ILLUMINANCE	Average Illuminance, East	0.9 fc to 1.4 fc		ILLUMINANCE	Average Illuminance, E <sub>AVE</sub>	0.9 fc to 1.		ILLUMINANCE	Average Illuminance, E <sub>AVE</sub>	0.9 fc to 1.4 fc
	Uniformity Ratio, E <sub>AVE</sub> /E <sub>MIN</sub>	≤3.0:1	<del></del>		Uniformity Ratio, EAVE/EMIN	≤ 3.0:1			Uniformity Ratio, E <sub>AVE</sub> /E <sub>MIN</sub>	≤ 3.0:1
LUMINANCE	Average Luminance, Lave	0.6 cd/m <sup>2</sup> to 0.9 cd/m	2	LUMINANCE	Average Luminance, Lave	0.6 cd/m <sup>2</sup> to 0.	.9 cd/m <sup>2</sup>			
- The stage of the	Uniformity Ratio, Lave/Lmn	≤3.5:1		THE PART OF THE PA	Uniformity Ratio, Lave/Lmin	≤ 3.5:1		LUMINANCE	Average Luminance, Lave	0.6 cd/m² to 0.9 cd/m²
	Uniformity Ratio, L <sub>MAX</sub> /L <sub>MIN</sub>	≤ 6.0:1			Uniformity Ratio, LMAX/LMIN	≤ 6.0:1			Uniformity Ratio, Lave/Lmin	≤ 3.5:1
	Max. Veiling Luminance Ratio, Lv/Lava	≤0.3:1	<del></del>		Max. Veiling Luminance Ratio, Lv/Lave	≤ 0.3:1			Uniformity Ratio, LMAX/LMIN  Max. Veiling Luminance Ratio, Lv/Lave	≤ 6.0:1 ≤ 0.3:1
			ILLINOIS DEPARTMENT OF TRANSP							
			LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted	ABLE unt Luminaire			LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under	TABLE		
			LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo	ABLE unt Luminaire			LUMINAIRE PERFORMANCE	TABLE		
			LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted) GIVEN CONDITIONS	ABLE unt Luminaire horizontally)			LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under	E TABLE pass Luminaire	2 ft	
		ROADWAY DATA	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted GIVEN CONDITIONS Lane Width	ABLE unt Luminaire			LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under GIVEN CONDITIONS	ETABLE pass Luminaire 12	2 ft 2	
			LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted) GIVEN CONDITIONS	TABLE unt Luminaire horizontally)  12 ft 4			LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width	E TABLE pass Luminaire 12	2 ) ft	
			LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only)	ABLE unt Luminaire horizontally)			LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification	E TABLE pass Luminaire  12	2 0 ft 83	
			LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width	TABLE unt Luminaire horizontally)  12 ft 4 0 ft			LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width	E TABLE pass Luminaire  12	2 ) ft	
		ROADWAY DATA	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07			LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification	E TABLE pass Luminaire  1.  C F	2 0 ft 83	
			LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width  I.E.S. Surface Classification	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07		ROADWAY <b>D</b> ATA	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From	E TABLE pass Luminaire  1: 0 F 1:	2 0 ft 83 07 6 ft	
		ROADWAY DATA	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07		ROADWAY <b>D</b> ATA	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height	E TABLE pass Luminaire  1: 0 F 1:	2 0 ft 33	
		ROADWAY DATA	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07 45 ft -30 ft		ROADWAY <b>D</b> ATA	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From	E TABLE pass Luminaire  1: 0 1: 1: 1: -2	2 0 ft 83 07 6 ft	
		ROADWAY DATA  LIGHT POLE DATA	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07		ROADWAY DATA  LIGHT POLE DATA	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)	E TABLE pass Luminaire  1: 0 Fig. 1: -2	2 0 ft 83 07 6 ft	
		ROADWAY DATA  LIGHT POLE DATA	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type I.E.S. Vertical Distribution BUG Rating	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07 45 ft -30 ft LED Mediun U = 0	n	ROADWAY DATA  LIGHT POLE DATA	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating	E TABLE pass Luminaire  1: 0 F 1: -2 Ll Mei	2 0 ft 83 07 6 ft ED	
		ROADWAY DATA  LIGHT POLE DATA	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type I.E.S. Vertical Distribution BUG Rating I.E.S. Lateral Distribution	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07 45 ft -30 ft  LED Mediun U = 0 Type III o	n r IV	ROADWAY DATA  LIGHT POLE DATA	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution	E TABLE  pass Luminaire  1: 0  F  . 1  -2  Ll  Me U  Type	2 0 ft 83 07 6 ft 0 ft ED dium = 0	
		ROADWAY DATA  LIGHT POLE DATA	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type I.E.S. Vertical Distribution BUG Rating	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07 45 ft -30 ft LED Mediun U = 0	n r IV	ROADWAY DATA  LIGHT POLE DATA	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating	E TABLE  pass Luminaire  1: 0  F  . 1  -2  Ll  Me U  Type	2 0 ft 133 007 6 ft 0 ft ED dium = 0	
		ROADWAY DATA  LIGHT POLE DATA	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type I.E.S. Vertical Distribution BUG Rating I.E.S. Lateral Distribution	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07 45 ft -30 ft  LED Mediun U = 0 Type III o	n r IV	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line) Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution Total Light Loss Factor	E TABLE pass Luminaire  1: 0 F 1 -2 Ll Me U Type 0.0	2 0 ft 83 07 6 ft 0 ft ED dium = 0 III or IV	
		ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type I.E.S. Vertical Distribution BUG Rating I.E.S. Lateral Distribution Total Light Loss Factor	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07 45 ft -30 ft LED Mediur U = 0 Type III o 0.684	n r IV	ROADWAY DATA  LIGHT POLE DATA	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution	E TABLE pass Luminaire  1: 0 F 0 I 1: 1 Type 0.6	2 0 ft 183 107 6 ft 0 ft ED dium = 0 III or IV 684	
		ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type I.E.S. Vertical Distribution BUG Rating I.E.S. Lateral Distribution Total Light Loss Factor  Spacing	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07 45 ft -30 ft LED Medius U = 0 Type III o 0.684	n r IV	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution Total Light Loss Factor  Spacing	E TABLE pass Luminaire  1: 0 F 0 I 1: 1 Type 0.6	2 0 ft 83 07 6 ft 0 ft ED dium = 0 III or IV	
		ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total lig	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type I.E.S. Vertical Distribution BUG Rating I.E.S. cateral Distribution Total Light Loss Factor  Spacing Configuration	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07 45 ft -30 ft LED Mediun U = 0 Type III o 0.684 155 ft One Sid	n r IV ed	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total ligh	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration	E TABLE pass Luminaire  1: 0 F . 1 1- 2 Ll Mer U Type 0. 66 One	2 0 ft 83 07 6 ft 0 ft ED dium = 0 III or IV 684	
		ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total lig	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type I.E.S. Vertical Distribution BUG Rating I.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  ght loss factor is the product of "Lumen Depreciation and "Equipment factors" (EF) = 0.95.	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07 45 ft -30 ft LED Mediun U = 0 Type III o 0.684 155 ft One Sid	n r IV ed	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total ligh	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line) Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration	E TABLE pass Luminaire  1: 0 F . 1 1- 2 Ll Mer U Type 0. 66 One	2 0 ft 83 07 6 ft 0 ft ED dium = 0 III or IV 684	
		ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total lig	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type I.E.S. Vertical Distribution BUG Rating I.E.S. cateral Distribution Total Light Loss Factor  Spacing Configuration	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07 45 ft -30 ft LED Mediun U = 0 Type III o 0.684 155 ft One Sid	n r IV ed	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total ligh	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration	E TABLE pass Luminaire  1: 0 F 1 -2 LL Mer U Type 0. 6 One	2 0 ft 83 07 6 ft 0 ft ED dium = 0 III or IV 684	
		ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total lig = 0.80, 1	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type I.E.S. Vertical Distribution BUG Rating I.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  ght loss factor is the product of "Lumen Depreciation and "Equipment factors" (EF) = 0.95.	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07 45 ft -30 ft LED Mediun U = 0 Type III o 0.684 155 ft One Sid	n r IV ed stion" (LDF)	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total ligh = 0.80, ar	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line) Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution Total Light Loss Factor Spacing Configuration  ht loss factor is the product of "Lumen Depreciation" "Equipment factors" (EF) = 0.95.	E TABLE  pass Luminaire  12  13  14  15  19  19  19  19  19  19  19  19  19	2 0 ft 83 07 6 ft 0 ft ED dium = 0 Ill or IV 684 0 ft Sided	
		ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total lig = 0.80, 1	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type I.E.S. Vertical Distribution BUG Rating I.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  ght loss factor is the product of "Lumen Depreciation and "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENTS ance requirements shall be the acceptable standards a given concitions listed above.  Average illuminance, Eave	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07 45 ft -30 ft  LED Mediun U = 0 Type III o 0.684 155 ft One Sid  " (LLD) = 0.90, "Dirt Depreci	n r IV ed stion" (LDF)	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total ligh = 0.80, ar	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  ht loss factor is the product of "Lumen Depreciation" "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENT  noce requirements shall be the acceptable standa	E TABLE  pass Luminaire  12  13  14  15  19  19  19  19  19  19  19  19  19	2 0 ft 83 07 6 ft 0 ft ED dium = 0 Ill or IV 684 0 ft Sided	
		ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTE:  1. Total lig = 0.80, 1	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line) Luminaire Type I.E.S. Vertical Distribution BUG Rating I.E.S. Lateral Distribution Total Light Loss Factor Spacing Configuration  that loss factor is the product of "Lumen Depreciation and "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENTS ance requirements shall be the acceptable standards a given conditions listed above.	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07 45 ft -30 ft  LED Mediun U = 0 Type III o 0.684 155 ft One Sid	n r IV ed stion" (LDF)	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total ligh = 0.80, ar	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  ht loss factor is the product of "Lumen Depreciation" "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENT  noce requirements shall be the acceptable standa	E TABLE  pass Luminaire  12  13  14  15  19  19  19  19  19  19  19  19  19	2 0 ft 83 07 6 ft 0 ft ED dium = 0 Ill or IV 684 0 ft Sided	
		ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTE:  1. Total lig = 0.80, 1	LUMINAIRE PERFORMANCE T LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type I.E.S. Vertical Distribution BUG Rating I.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  ght loss factor is the product of "Lumen Depreciation and "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENTS ance requirements shall be the acceptable standards a given concitions listed above.  Average illuminance, Eave	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07 45 ft -30 ft  LED Mediun U = 0 Type III o 0.684 155 ft One Sid  " (LLD) = 0.90, "Dirt Depreci	n r IV ed stion" (LDF)	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total ligh = 0.80, ar  NOTE: These performan luminaire, based on the	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  ht loss factor is the product of "Lumen Depreciation" "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENT Ince requirements shall be the acceptable standar given conditions listed above.  Average Luminance, Lave Uniformity Ratio, Lave/Lumn	TABLE  pass Luminaire  12  13  14  15  16  17  17  17  19  19  19  19  19  19  19	2 0 ft R3 007 6 ft 0 ft ED dium = 0 Ill or IV 684 0 ft Sided oreciation" (LDF)	
		LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total lig = 0.80, s  NOTE: These performa luminaire, based on the lilluminance	LUMINAIRE PERFORMANCE T  LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width  L.E.S. Surface Classification O-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type L.E.S. Vertical Distribution BUG Rating L.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  ght loss factor is the product of "Lumen Depreciation and "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENTS  ance requirements shall be the acceptable standards a given concitions listed above.  Average Illuminance, EAVE Uniformity Ratio, EAVE/EMIN	TABLE unt Luminaire horizontally)  12 ft 4 0 ft R3 .07 45 ft -30 ft  LED Mediun U = 0 Type III o 0.684 155 ft One Sid  "" (LLD) = 0.90, "Dirt Depreci	n r IV ed stion" (LDF) e for the4 fc	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total ligh = 0.80, ar  NOTE: These performan luminaire, based on the	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  ht loss factor is the product of "Lumen Depreciatind" Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENT INC. Average Luminance, Lave	TABLE  pass Luminaire  12  13  14  15  16  17  17  17  17  19  19  19  19  19  19	2	
		LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total lig = 0.80, s  NOTE: These performa luminaire, based on the lilluminance	LUMINAIRE PERFORMANCE T  LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type I.E.S. Vertical Distribution BUG Rating I.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  that loss factor is the product of "Lumen Depreciation and "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENTS  unce requirements shall be the acceptable standards a given conditions listed above.  Average Illuminance, Eave Uniformity Ratio, Eave/Leane Uniformity Ratio, Lave/Leane	ABLE unt Luminaire   horizontally)  12 ft	n r IV ed stion" (LDF) e for the	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total ligh = 0.80, ar  NOTE: These performan luminaire, based on the	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  ht loss factor is the product of "Lumen Depreciation" "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENT Ince requirements shall be the acceptable standar given conditions listed above.  Average Luminance, Lave Uniformity Ratio, Lave/Lumn	ETABLE  pass Luminaire  12  13  14  15  16  17  17  17  17  19  19  19  19  19  19	2	
		LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total lig = 0.80, s  NOTE: These performa luminaire, based on the lilluminance	LUMINAIRE PERFORMANCE T  LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type I.E.S. Vertical Distribution BUG Rating I.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  ght loss factor is the product of "Lumen Depreciation and "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENTS  ance requirements shall be the acceptable standards a given concitions listed above.  Average Illuminance, EAVE Uniformity Ratio, EAVE/EMIN  Average Luminance, LAVE Uniformity Ratio, LAVE/EMIN	### TABLE  unt Luminaire   horizontally   12 ft	n r IV  ed stion" (LDF)  e for the	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total ligh = 0.80, ar  NOTE: These performan luminaire, based on the	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  ht loss factor is the product of "Lumen Depreciation" "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENT Ince requirements shall be the acceptable standar given conditions listed above.  Average Luminance, Lave Uniformity Ratio, Lave/Lann Uniformity Rat	ETABLE  pass Luminaire  12  13  14  15  16  17  17  17  17  19  19  19  19  19  19	2	
	TICED NAME - Vary Davison	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total lig = 0.80, s  NOTE: These performa luminaire, based on the luminance  LUMINANCE	LUMINAIRE PERFORMANCE T  LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line) Luminaire Type I.E.S. Vertical Distribution BUG Rating I.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  that loss factor is the product of "Lumen Depreciation and "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENTS  ance requirements shall be the acceptable standards a given conditions listed above.  Average Illuminance, EAVE Uniformity Ratio, EAVE/Lenn Uniformity Ratio, Lave/Lenn	### TABLE  unt Luminaire   horizontally   12 ft	n r IV  ed stion" (LDF)  e for the	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total ligh = 0.80, ar  NOTE: These performan luminaire, based on the	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  ht loss factor is the product of "Lumen Depreciation" "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENT Ince requirements shall be the acceptable standar given conditions listed above.  Average Luminance, Lave Uniformity Ratio, Lave/Lann Uniformity Rat	ETABLE  pass Luminaire  12  13  14  15  16  17  17  17  17  19  19  19  19  19  19	2	F.A. SECTION TOTAL
	USER NAME = Kary, Dawson	LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total lig = 0.80, s  NOTE: These performa luminaire, based on the lilluminance	LUMINAIRE PERFORMANCE T  LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width I.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type I.E.S. Vertical Distribution BUG Rating I.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  that loss factor is the product of "Lumen Depreciation and "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENTS  unce requirements shall be the acceptable standards a given conditions listed above.  Average Illuminance, Eave Uniformity Ratio, Eave/Leane Uniformity Ratio, Lave/Leane	### TABLE  unt Luminaire   horizontally   12 ft	n r IV  ed stion" (LDF)  e for the  .4 fc	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total ligh = 0.80, ar  NOTE: These performan luminaire, based on the	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  ht loss factor is the product of "Lumen Depreciation" "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENT noce requirements shall be the acceptable standar given conditions listed above.  Average Luminance, Lave Uniformity Ratio, Lave/Lann Uniformity Ratio, Lave/Lann Uniformity Ratio, Lave/Lann Max. Veiling Luminance Ratio, Ly/Lave	E TABLE  pass Luminaire  12  13  14  15  16  17  17  17  17  18  19  19  19  19  19  19  19  19  19	2	F.A. SECTION COUNTY TOTAL SHEETS
	USER NAME = Kary, Dawson PLOT SCALE = 40.0000 ' / in.	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total lig = 0.80, 4  NOTE: These performa luminaire, based on the luminance  LUMINANCE  LUMINANCE	LUMINAIRE PERFORMANCE T  LED Replacement for 400W HPS Multi-Mo (replacement luminaire shall be mounted  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width  L.E.S. Surface Classification Q-Zero Value  Mourting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type L.E.S. Vertical Distribution BUG Rating L.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  that loss factor is the product of "Lumen Depreciation and "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENTS  ance requirements shall be the acceptable standards a given concitions listed above.  Average Illuminance, EAVE Uniformity Ratio, LAVE/LANE MAX. Veiling Luminance Ratio, LV/LAVE  REVISED -	### TABLE  unt Luminaire   horizontally   12 ft	n r IV  ed stion" (LDF)  e for the	ROADWAY DATA  LIGHT POLE DATA  LUMINAIRE DATA  LAYOUT DATA  NOTES:  1. Total ligh = 0.80, ar  NOTE: These performan fuminaire, based on the full light process.	LUMINAIRE PERFORMANCE LED Replacement for 150W HPS Under  GIVEN CONDITIONS  Lane Width Number of Lanes (in One Direction Only) Median Width 1.E.S. Surface Classification Q-Zero Value  Mounting Height Luminaire Overhang From Edge of Pavement (White Line)  Luminaire Type 1.E.S. Vertical Distribution BUG Rating 1.E.S. Lateral Distribution Total Light Loss Factor  Spacing Configuration  ht loss factor is the product of "Lumen Depreciation" "Equipment factors" (EF) = 0.95.  PERFORMANCE REQUIREMENT noce requirements shall be the acceptable standar given conditions listed above.  Average Luminance, Lave Uniformity Ratio, Lave/Lann Uniformity Ratio, Lave/Lann Uniformity Ratio, Lave/Lann Max. Veiling Luminance Ratio, Ly/Lave	ETABLE  pass Luminaire  12  13  14  15  16  17  17  17  17  19  19  19  19  19  19	2	F.A. SECTION COUNTY TOTAL SHEETS VAR. D5 LIGHTING REPAIRS 2024-2 VARIOUS 5 CONTRACT NO. 70