08-01-2025 LETTING ITEM 076

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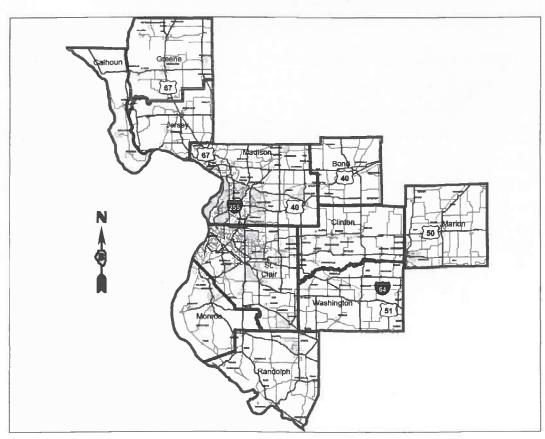
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

VARIOUS 8 1 DIST 8 LTS 2026-1 CONTRACT NO. 76R28

FOR INDEX OF SHEETS, SEE SHEET NO. 2

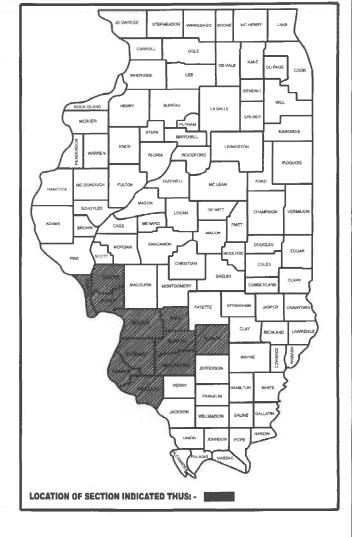
PROPOSED HIGHWAY PLANS

VARIOUS ROUTES SECTION: DIST 8 LTS 2026-1 HIGHWAY LIGHTING, TRAFFIC SIGNAL **REPAIR & MAINTENANCE VARIOUS COUNTIES**



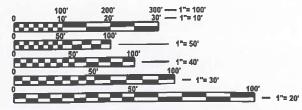
C-98-193-24

D-98-105-24



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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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 EXCAVATION 1-800-892-0123

PROJECT ENGINEER: CHERYL KEPLAR PROJECT MANAGER: RICHARD BARBEE

CONTRACT NO. 76R28

INDEX OF SHEETS

- COVER SHEET
 INDEX SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS
 SUMMARY OF QUANTITIES
 LUMINAIRE PERFORMANCE TABLE
 CONCRETE FOUNDATION TYPE A PED PUSH-BUTTON POST

HIGHWAY STANDARDS

701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD 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
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701446-11	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701451-05	RAMP CLOSURE FREEWAY/EXPRESSWAY
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-10	TRAFFIC CONTROL DEVICES
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT

GENERAL NOTES

- 1. THE LOCATION OF THE REPAIR AREAS SHALL BE DETERMINED BY THE ENGINEER / DEPARTMENT.
- 2. NO MATERIAL SHALL BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
- 3. ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR, APPROPRIATE STANDARDS ARE LISTED.
- A FLAGGER SHALL BE REQUIRED AT ALL TIMES WHEN WORKERS OR EQUIPMENT ARE ENCROACHING ON THE LANE OF TRAFFIC.
- 45 AND 55 MPH SIGNS ARE INCLUDED IN ALL INTERSTATE LANE CLOSURE TRAFFIC CONTROL AND PROTECTION. IF THE LANE CLOSURE DURATION IS LESS THAN 4 HOURS, THE 45 AND 55 MPH SIGNS ARE NOT REQUIRED.
- 6. ANY WORK ORDER MAY BE CANCELED AT THE ENGINEER'S / DEPARTMENT'S DISCRETION.
- 7. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.

COMMITMENTS

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS SHEET 1 OF 1 SHEETS STA.

REV - MS COUNTY TOTAL SHEET NO.

VARIOUS 8 2 CONTRACT NO. 76R28

SECTION

DIST 8 LTS 202 61

VAR.

				CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
X0327495	JOURNEYMAN ELECTRICIAN	HOUR	1000	1000
X0327496	APPRENTICE ELECTRICIAN	HOUR	100	100
X0327497	PICK-UP TRUCK	HOUR	700	700
X0327500	ARROWBOARD (TRAILER MOUNTED)	HOUR	20	20
X0327501	ATTENUATOR, CRASH (TRUCK MOUNTED)	HOUR	500	500
X0327734	TRUCK CRANE	HOUR	500	500
X1400096	LED LAMP MODULE REPLACEMENT	EACH	300	300
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	29	29
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	100	100
X8760201	PEDESTRIAN PUSH-BUTTON POST	EACH	50	50
X8860400	DETECTOR LOOP (SPECIAL)	FOOT	5000	5000
XP000015	DIGGER DERRICK	HOUR	100	100
XP000028	LABOR	HOUR	100	100
XP000029	BUCKET TRUCK/VAN FOR TRAFFIC SIGNALS	HOUR	700	700

SHEET 1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			F.A.P RTE.			COUNTY	TOTAL SHEETS	SHEET NO.
			VAR.	VAR. DIST 8 LTS 2026-1 VARIOUS		8	3	
						CONTRACT	NO. 76	₹28
OF 4 SHEETS STA. TO STA.				ILLINOIS	FED. AII	D PROJECT		

				CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
XP000030	BUCKET TRUCK FOR HIGHWAY LIGHTING	HOUR	700	700
XP000031	POLE TRAILER	HOUR	100	100
XP000032	FLATBED TRAILER	HOUR	100	100
XP000101	ATQ 5A FUSE 200	EACH	200	200
XP000102	FNQ 5A FUSE	EACH	200	200
XP000104	FNM 10A FUSE	EACH	5	5
XP000105	FRNR 60A FUSE	EACH	5	5
XP000106	BUCHANAN FUSEHOLDER KIT	EACH	50	50
XP000115	150W HPS LAMP	EACH	5	5
XP000116	250W HPS LAMP	EACH	100	100
XP000118	400W HPS LAMP	EACH	350	350
XP000119	150W 240/480V BALLAST KIT	EACH	5	5
XP000120	250W 240/480V BALLAST KIT	EACH	100	100
XP000122	400W 240/480V BALLAST KIT	EACH	150	150
	1			

				CONSTR. CODE	
				100% STATE	
				TRAFFIC SIGNALS 0021	
CODE			TOTAL		
NO.	ITEM	UNIT	QUANTITY	URBAN	
₽ 000123	SD-100 BU STARTER	EACH	5	5	
V-000123	SD-100 BO STANTEN	LAGIT		<u> </u>	
₹ P000124	SURGE ARRESTOR (EDCO MODEL SHA-XXX3) X=20/240/480 VOLTS	EACH	20	20	
₹ P000125	PHOTO CONTROL, 105V-285V (ALR-MODEL SSTPV-ON)	EACH	20	20	
√P000126	#12 XLPE 1/C COPPER WIRE	FEET	500	500	
N-000126	#12 ALPE 1/C COPPER WIRE	FEE	300	300	
XP000127	#8 XLP-TYPE USE 1/C COPPER WIRE	FEET	500	500	
№ 000128	#6 XLP-TYPE USE 1/C COPPER WIRE	FEET	10000	10000	
XP000129	60A LIGITING CONTACTOR	EACH	5	5	
XP000130	100A LIGHTING CONTACTOR	EACH	5	5	
XP000132	50A CIRCUIT BREAKER, 1P	EACH	5	5	
₩ 000135	50A CIRCUIT BREAKER, 2P	EACH	5	5	
XP000137	150A CIRCUIT BREAKER, 2P	FACH	5	5	
Ф000138	200A CIRCUIT BREAKER, 2P	EACH	5	5	
₽ 000139	BREAKAWAY COUPLING, 1"	EACH	5	5	
₽ 000140	1/4" X 1/4" STAINLESS STEEL MESH	SQ FT	10	10	

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SCALE:

				CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
XP000141	ALUMINUM SIGNAL BASE, SQUARE (PELCO)	EACH	100	100
XP000142	ALUMINUM SIGNAL POST, 13', SCH 80 (PELCO)	EACH	5	5
XP000145	MAST ARM BRACKET, 3 SECTION (PELCO AB 11 6)	EACH	5	5
XP000146	MAST ARM BRACKET, 4 SECTION (PELCO AB 11 6)	EACH	5	5
XP000147	MAST ARM BRACKET, 5 SECTION (PELCO AB 11 6)	EACH	5	5
XP000161	LAMP, QUARTZ HALOGEN, 43W @, 10.8V (GE OR EQUIVALENT)	EACH	50	50
XP000164	SIGNAL HEAD, POLYCARBONATE, LED, 1-SECTION, 12", R OR Y (ECONOLITE OR MCCAIN)	EACH	5	5
XP000165	SIGNAL HEAD, POLYCARBONATE, LED, 3-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	120	120
XP000166	SIGNAL HEAD, POLYCARBONATE, LED, 4-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	50	50
XP000167	SIGNAL HEAD, POLYCARBONATE, LED, 5-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	50	50
XP000168	PEDESTRIAN HEAD, POLYCARBONATE, LED, 2-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	40	40
	(MCCAIN)			
XP000170	ELECTRIC CABLE, 2/C, #14, TW, SH	PEET	3000	3000
XP000171	ELECTRIC CABLE, 3 PR, #18, TW, SH	FEET	10	10
VD000170	ELECTRIC CARLE E PR. WAS TAN OU			40
XP000172	ELECTRIC CABLE, 5 PR, #18, TW, SH	FEET	10	10
			l	I

				CONSTR. CODE
				100% STATE
CODE			TOTAL	TRAFFIC SIGNALS 0021
NO.	ITEM	UNIT	QUANTITY	URBAN
		11		
XP000173	ELECTRIC CABLE, 6 PR, #18, TW, SH	FEET	10	10
XP000174	ELECTRIC CABLE, 2/C, #14	FEET	3000	3000
XP000175	ELECTRIC CABLE, 3/C, #14	FEET	3000	3000
XP000176	ELECTRIC CABLE, 5/C, #14	FEET	3000	3000
XP000177	ELECTRIC CABLE, 7/C, #14	FEET	3000	3000
XP000179	GROUND ROD, 8', COPPER CLAD	EACH	5	5
XP000180	SPLICE KIT (3-M SCOTCHCAST #72-N1)	EACH	10	10
VF000404	LOOD OF ALANT (DONDO DOOS)	ONLION		00
XP000181	LOOP SEALANT (BONDO P606)	GALLON	30	30
XP000186	J BOX, NEMA, 4X, SS, 6"X8"X4", W/ ALUMINUM BACKPLATE & LOCK KIT	EACH	5	5
XP000187	HANDHOLE, FRAME & COVER (NEENAH R-6660- JP)	EACH	5	5
XP000188	HANDHOLE, COVER ONLY (NEENAH R-6660-JP)	EACH	20	20
XP000191	SIGN, ILLUMINATED, FIBEROPTIC-TYPE, 24"X30" "NO LEFT/RIGHT TURN" OR "LT TURN YIELD"	EACH	5	5
XP000192	SICN, ILLUMINATED, FIBEROPTIC-TYPE, 24"X30" SYMBOLIC "NO LEFT/RICHT TURN"	EACH	5	5
XP000193	MONITOR, NEMA CONFLICT, 12 CHANNEL (EDI SSM-12E)	EACH	5	5
M-000193	INCINITION, INCINIA COINI LIOT, 12 OF IMMINEL (EUF SONI-12E)	LACH		J

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	SUMMARY	OF QUA	NTITIES		F.A.P RTE.	SEC ⁻	TION		COUNTY	TOTAL SHEETS	SHEET NO.
					VAR.	DIST 8 LT	TS 2026-1		VARIOUS	8	5
									CONTRAC	T NO. 76F	₹28
SHEET 3	OF 4	SHEETS	STA.	TO STA.			ILLINOIS	FED. AII	D PROJECT		

				CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
		·		
XP000194	RELAY, FLASH TRANSFER, (MIDTEX 136-62T3A1)	EACH	5	5
XP000195	DETECTOR, NEMA DIGITAL, 1-CH, SHELF MOUNT (DETECTOR SYSTEMS OR RENO)	EACH	5	5
XP000196	DETECTOR, NEMA DIGITAL, 2-CH, RACK MOUNT (DETECTOR SYSTEMS OR RENO)	EACH	20	20
XP000197	DETECTOR, POWER SUPPLY, RACK MOUNT (DETECTOR SYSTEMS OR RENO)	EACH	5	5
XP000198	CABINET, SIGNAL CONTROLLER, ALUM., TYPE IV, W/MONITOR & ALL PLUG-INS, COMPLETE (ECONOLITE)	EACH	5	5
XP000199	FLASHER, NEMA	EACH	20	20
XP000200	LOAD SWITCH, NEMA	EACH	40	40
XP000203	COLD GALVANIZING, SPRAY CAN	EACH	5	5
XP000205	ALUMINUM LIGHT POLE MAST ARM, 15', TRUSS STYLE	EACH	40	40
XP000207	ALUMINUM LIGHT POLE, 45', COMPLETE, RD, W/ TENON TOP, W/T BASE, 17" B.C., DK. BRONZE POWDER COAT	FACH	5	5
XP000209	UPPER AND LOWER ARM ASSEMBLY, UNPAINTED ALUMINUM	EACH	120	120
XP000210	FLASHER CONTROLLER CABINET ASSEMBLY, NEMA (PELCO SE-1005 OR EQUIVALENT)	EACH	5	5
XP000300	TRAFFIC SIGNAL RELAMPING	EACH	5	5
XP000301	TRAFFIC SIGNAL LAMP REPLACEMENT	EACH	5	5

				CONSTR. CODE 100% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS 0021 URBAN
XP000302	FLASHING BEACON INSPECTION	EACH	5	5
XP000303	IOWER LIGHTING INSPECTION	EACH	5	5
XP000304	REPLACE SERVICE INSTALLATION, COMPLETE	EACH	5	5
XP000307	REPAIR TRAFFIC SIGNAL KNOCKDOWN	EACH	120	120
XP000308	REPAIR FLASHING BEACON KNOCKDOWN	EACH	40	40
XP000309	REPAIR HIGHWAY LIGHT POLE KNOCKDOWN	EACH	100	100
XP000310	DEDLACE LIGHWAY LIGHT DOLE DREAKAWAY DEVICE COURLINGS	EACH	5	5
7000310	REPLACE HICHWAY LIGHT POLE BREAKAWAY DEVICE, COUPLINGS	EACH	5	5
XP000311	REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, TRANSFORMER BASF	EACH	40	40
			<u> </u>	
XP000312	REPLACE TRAFFIC SIGNAL POST BASE ASSEMBLY	EACH	40	40

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

	SUMMA	RY	OF QUA	NTITIES		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
							DIST 8 LTS 2026-1	VARIOUS	8	6
								CONTRAC	T NO. 76	₹28
IEET 4 OF 4 SHEETS STA. TO STA.							ILLINOIS FE	D. AID PROJECT		

| Mounting Height | Arm Length | Set-Back (see note 1) | Number of Luminaries | 16 ft | 0 ft | 20 ft | NI/A | | NI/A | Luminaries | Description | Transverse Distribution | Transverse Distribution | Number of Luminaries | NI/A | NI/A

| Transverse Distribution | Replacement For 150W Underpass | Type III Lateral Distribution Medium I otal Light Loss Factor (LLF)

Refer to Notes 6 and 7

U=0 Shields Dimming Protocol

Spacing 60 ft Single Sided

 Performance (see notes 5 and 6)

 Average Illuminance, Exet (fc)
 Uniformity Ratio, Exet/Exm

 N/A
 N/A
 N/A

Average Luminance, Live (od/m²) Uniformity Ratio, Live/Live

Uniformity Ratio, Live/Live

Veiling Luminance Ratio, Liv/Live

Veiling Luminance Ratio, Liv/Live

less than or equal to 0.0:1 less than or equal to 0.3:1

0.6 to 0.0 | leas than or equal to 3.5:1 | leas than or equal to 6.0:1 | leas than or equal to 6 N/A

| N/A | Notes | 1. Get-Dack is from Edge of Favement (white line). | 1. Get-Dack is from Edge of Favement (white line). | 2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway. | 3. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above. | 4. Lane width is the width of each individual lane, not to be confused with total roadway width. | 5. Compliance with performance criteria shall be held to one significant digit. | 6. Photometric calculations for roadways shall be performed with a total light loss factor of 0.7 | 1. Light respass calculations shall be performed with a total light loss factor of 1.0 and with nonzonail calculations performed at grade and vertical calculations performed with a total light loss factor of 1.0 and with nonzonail calculations performed at grade and vertical calculations performed with calculation points located three feet above grade. | 1. Liminorize performance totals is intended to the differ the luminaire and dose not nocessorily match any specific roadway geometry, mounting height, setback, or arm length.

Luminaire Performance Table

Project				2 07 60		02				
Date	Contract	Numt	per	Section Nu	mber		ounty			
03/03/25	N/A			N/A						
Marked Route	Number				Municipal	ity		-		
Various					Various					
Roadway										
Lane Width (s	ee note 4)		ber and Di	rection of lane		dian Width	Surface Cla	ssification	Q-Zero Value	
12		3			N/A	4	R3		0.07	
Structure										
Mounting Heig		ngth	Set-Back	(see note 1)	Numbe	r of Luminar	ies			
45 ft	15 ft		15 ft		N/A					
Luminaire										
Description					Transven	se Distributio	n		al Dietribution	
Replaceme	nt for 250	W H	orizontal	Mount	Type III			Medi	um	
Total Light Lo	ss Factor (L	LF)	B-U-G	Rating		Shields			Dimming Protocol	
Refer to No	tes 6 and	7	U=0			N/A			0-10V	
Layout										
Spacing		Conf	iguration							
160 ft		Sing	gle Sided							
Performanc	e (see not	es 5 a	and 6)							
Average Illum	inance, EAVE	(fc)		Jniformity Rat	io, Eave/Emi	4				
0.9 to 1.4				ess than or	equal to	3.0:1				
Average Lumi	inance, Lan	cd/m°) Uniform	ity Ratio, Leve	/Lun	Uniformity	Ratio, Lux/Lu	an.	Veiling Luminance I	Ratio, Lv/L
0.6 to 0.9			less th	an or equa	I to 3.5:1	less tha	n or equal to	0 6.0:1	less than or equ	al to 0.3:
Light Tress	pass (see	notes	5 and 7)							
Distance to R	OW (behind	pole)	Max. Hor	zontal Illumin	ance at RO	W, E _H	Max. Verti	cal Illumina	ince at ROW, Ev	
N/A			N/A				N/A			

See Back is from Edge of Pavement (white line).
Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
Parformance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

Lane width is the width of each individual lane, not to be confused with total roadway width.
Compliance with performance criteria shall be held to one significant digit.
Photometric calculations for roadways shall be performed with a total light loss factor of 0.07.
Light respaces acclusations shall be performed with a total light loss factor of 10 and with horizontal calculations performed at grade and vertical calculations performed with calculation points located three feet above grade.
Luminare performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm length.

Luminaire Performance Table

Date	Contract	Number		Section Nu	mber		Co	unty			
03/03/25	N/A			N/A							
Marked Route	Number				Munic	cipality					
Various					Vario	ous					
Roadway											
Lane Width (se	ee note 4)		nd Dire	ction of lane	es	Median	Width	Surface C	lassification		_
12		3				N/A		R3		0.07	
Structure											
Mounting Heig				ee note 1)		mber of	Luminari	es	1		
45 ft	1 ft	30 1	ft		N/	A					
Luminaire											
Description						sverse D	istributio	n		al Distribution	
Replaceme	nt for 250	W Multi-N	lount		Тур	e III			Med	ium	
Total Light Los	ss Factor (LI		U-G Ra	iting		10	hields			Dimming Protoc	ol
Refer to No	tes 6 and	7 U	=0			N	I/A			0-10V	
Layout											
Spacing		Configura									
145 ft		Single S	ided								
Performance			5)								
Average Illumi	nance, EAVE	(fc)	Un	iformity Rat	tio, Eave	/Enn					
0.9 to 1.4			les	ss than or	equa	I to 3.0	:1				
Average Lumi	nance, L _{vve} (od/m²) Ui	niformit	Ratio, LAVE	/Lmn	U	niformity	Ratio, Lux/	LMN	Veiling Luminan	ce Ratio, L/L
0.6 to 0.9		le	ss tha	n or equa	l to 3.	5:1 le	ess that	n or equal	to 6.0:1	less than or e	qual to 0.3:
Light Tressp	ass (see r	notes 5 ar	nd 7)								
Distance to RO	OW (behind			ontal Ilumin	ance at	ROW, E	EH .		tical Illumin	ance at ROW, Ev	
N/A		N/A	1					N/A			
Lighti Perforence Hence Lane Comp Photo Light grade Lumir	rmance requiven condition width is the plance with smetric calcutrespass	ons shall be uirements s ons listed al width of ea performand ulations for lculations s il calculation mance table	e performation per performation per	med with all the minimularity vidual lane is shall be have shall be performed with conded to defi	n acce n not to neld to perform with a to	be confu one sign ned with otal light ion point	andards used with ficant di- a total li- loss fact is locate	of photomel total roadw git. ght loss facto or of 1.0 and d three feet a	ay width. or of 0.7 I with horizo above grade	o the roadway. ance for the lumin intal calculations any specific roa	performed at

BDE 5630 (Rev. 06/06/24) Printed 03/03/25 BDE 5630 (Rev. 06/06/24) Printed 03/03/25 BDE 5630 (Rev. 06/06/24)

Illinois Department of Transportation

Luminaire Performance Table

Project										
Date	Contract	Numb	per	Section Nu	mber		Co	unty		
03/03/25	N/A			N/A						
Marked Route N	lumber				Munic	cipality			- 6	
Various					Vari	ous				
Roadway										
ane Width (see	e note 4)	Num	ber and D	irection of lane	s	Median	Width	Surface Class	fication	Q-Zero Value
12		4				N/A		R3		0.07
Structure										
Mounting Heigh	t Arm Lei	ngth	Set-Back	(see note 1)	Nu	mber of	Luminarie	:5		
45 ft	15 ft		15 ft		N/	Α				
uminaire										
Description					Trans	sverse l	Distribution	1	Late	ral Distribution
Replacemen	for 400	W H	orizontal	Mount	Тур	e III			Med	dium
Total Light Loss	Factor (LI	LF)	B-U-G	Rating			Shields			Dimming Protocol
Refer to Note	es 6 and	7	U=0				N/A			0-10V
_ayout			-							
Spacing		Conf	iguration							
240 ft		Sing	gle Sided	i						
Performance	(see note	es 5 a	and 6)							
Average Illumin	ance, E _{AVE}	(fc)		Uniformity Rat	io, East	E/EMIN				7
0.9 to 1.4				less than or	equa	I to 3.0	0:1			
Average Lumina	ance, Lave (cd/m2) Uniforn	nity Ratio, LAVE	/Lmin		Uniformity	Ratio, LMAX/LMIN		Veiling Luminance Ratio, Lv/Lave
0.6 to 0.9			less th	nan or equa	I to 3.	5	ess than	or equal to	6.0:1	less than or equal to 0.3:1
ight Tresspa	iss (see i	notes	5 and 7							
Distance to RO	W (behind	pole)	Max. Hor	izontal Illumina	ance a	t ROW,	Ен	Max. Vertical	Illumin	nance at ROW, Ev
N/A	stance to ROW (behind pole) Max. Horizontal Illu (A N/A							N/A		
Votes										

1. Set-Back is from Edge of Pavement (white line).
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
3. Performance requirements hall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.
4. Lane with is the width of each individual lane, not to be confused with total roadway width.
5. Compliance with performance criteria shall be held to one significant digit.
6. Photometric acclusations for roadways shall be performed with a light loss factor of 0.7
7. Light trespass calculations shall be performed with a lotal light loss factor of 1.0 and with horizontal calculations performed at grade and vertical calculations performed with a calculation point located three feet above grade.
6. Luminaire performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm height.

Illinois Department of Transportation

SCALE:

Luminaire Performance Table

Date	Contract	Numb	er	Section Nur	mber	C	ounty		
03/03/25	N/A			N/A					
Marked Route I	Number				Municipa	ality			
Various					Variou	s			
Roadway									
Lane Width (se	e note 4)	Numb	er and Dire	ection of lane	s Me	edian Width	Surface Clas	sification	Q-Zero Value
12		4			N	/A	R3		0.07
Structure									
Mounting Heigh	nt Arm Ler	ngth	Set-Back (see note 1)	Numb	er of Luminar	ies		
45 ft	1 ft		30 ft		N/A				
Luminaire									
Description					Transve	erse Distributio	on	Later	al Distribution
Replacemen	t for 400	W Mu	lti-Mount		Type I	II		Med	ium
Total Light Loss	s Factor (LI	LF)	B-U-G R	ating		Shields			Dimming Protocol
Refer to Note	es 6 and	7	U=0			N/A			0-10V
Layout									
Spacing		Confi	guration						
155 ft		Sing	le Sided		Î				
Performance	(see note	es 5 a	nd 6)						
Average Illumin	ance, Ewe	(fc)	U	niformity Rati	o, Enve/E	JN.			
0.9 to 1.4			le	ss than or	equal to	3.0:1			
Average Lumin	ance, Lave (cd/m²)	Uniformi	y Ratio, Lavel	Lmin	Uniformit	y Ratio, Lwx/Lm	N	Veiling Luminance Ratio, Lv/Lvvi
0.6 to 0.9			less tha	n or equa	to 3.5:	1 less tha	n or equal to	6.0:1	less than or equal to 0.3:1
Light Tresspa	ass (see i	notes	5 and 7)						
Distance to RO	W (behind	pole)	Max. Horiz	ontal Illumina	ance at R	OW, EH	Max. Vertic	al Illumina	ance at ROW, Ev
N/A			N/A				N/A		

2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.

3. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

4. Lane width is the width of each individual lane, not to be confused with total roadway width.

5. Compliance with performance criteria shall be held to one significant digit.

6. Hotometric calculations for roadways shall be performed with a total light loss factor of 0,7.

7. Light trespass calculations shall be performed with a total light loss factor of 1.0 and with horizontal calculations performed at grade and vertical calculations performed with a total light loss factor of 1.0 and with horizontal calculations performed with a total light loss factor of 1.0 and with horizontal calculations performed and cacculation points located time set above grade.

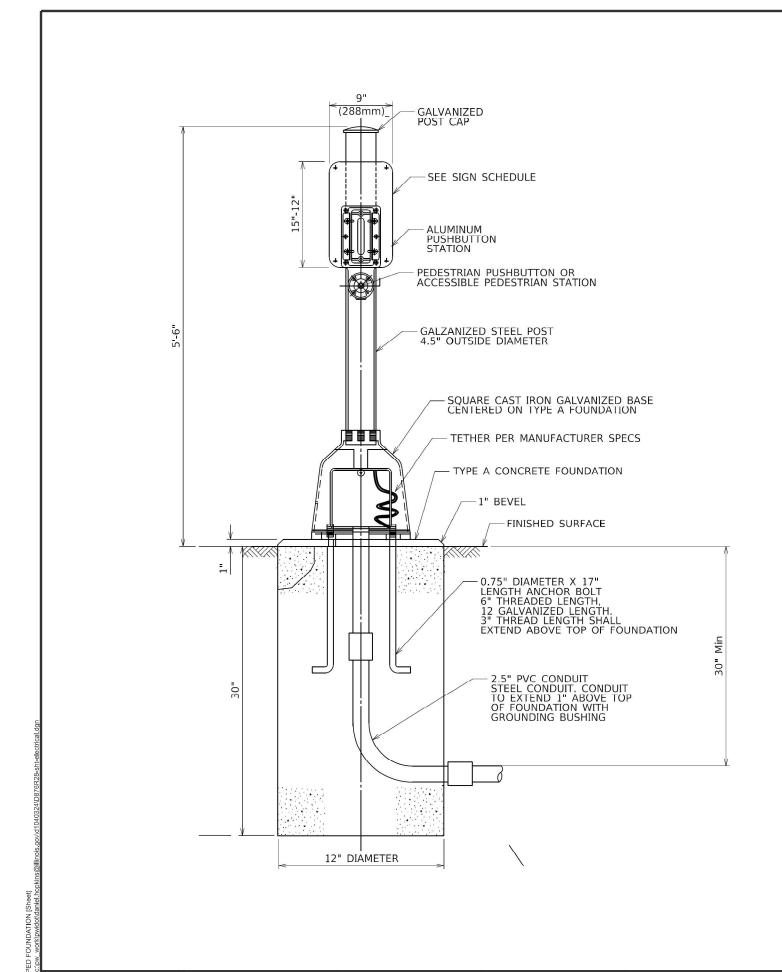
8. Luminaire performance bubble is intended to define the luminaire and does not necessarily match any specific roadway geometry, incuming helpfit, seback, or arm length.

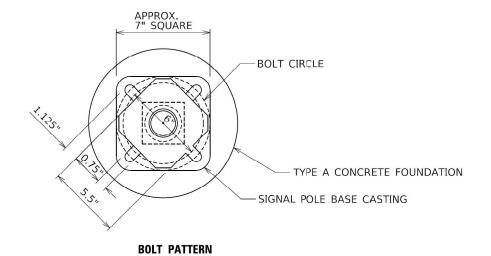
BDE 5630 (Rev. 06/06/24)

JSER NAME = daniel.hopkins DESIGNED -REVISED -DRAWN REVISED CHECKED -REVISED PLOT DATE = 3/12/2025 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY **LUMINAIRE PERFORMANCE TABLE** VARIOUS 8 7 VAR. DIST 8 LTS 2026-1 CONTRACT NO. 76R28 SHEET 1 OF 2 SHEETS STA. TO STA.





PEDESTRIAN PUSH-BUTTON POST

	USER NAME = daniel.hopkins	DESIGNED -	REVISED -		TRA	FEIC SIGNAL DI	ETAILS CON	CRETE FOUND	ATION	F.A.P	SECTION	COUNTY	TOTAL	SHEET
[DRAWN -	REVISED -	STATE OF ILLINOIS					,	VAR.	DIST 8 LTS 2026-1	VARIOUS	8	8
[CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	TYPE A PEDESTRIAN PUSH-BUTTON POST				I			CONTRAC	T NO. 76F	R28
	PLOT DATE = 11/21/2024	DATE -	REVISED -		SCALE:	SHEET 2 OF	2 SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		