



CITY OF AZTEC

REQUEST FOR QUOTATION

RFQ #2017-605

DATE: 03/09/2017	RETURN TO: CITY OF AZTEC Electric Department ATTN: RFQ #2017- 605 201 W CHACO AZTEC NM 87410 EMAIL: graymond@aztecnm.gov PHONE: (505) 334-7667 FAX: (505) 334-7684	THIS IS NOT AN ORDER
RFQ #: 2017- 605		
DUE DATE: 03/23/2017		
TIME: 3:00 pm		

NAME OF COMPANY SUBMITTING QUOTE: _____

NEW MEXICO IN STATE PREFERENCE	PAYMENT TERMS		F.O.B./FREIGHT TERMS	SHIPPING TIME
# _____ <u>In-State or Veteran's Preference will be applied to only those certified vendors who have completed item 6 or 7 below.</u> <u>Number AND certificate must be provided to be considered.</u>	_____% _____DAYS NET 30 DAYS AFTER RECEIPT OF INVOICE		402 S Light Plant Road Aztec NM 87410	
DESCRIPTION	QTY	BRAND	PRICE PER FIXTURE	TOTAL
Navion LED Fixture, Cooper Lighting Part# STRWRK NVN-AA-03-E-U-T3A-BZ-10-4 For street lighting See attached for specifications	30	Cooper Lighting, Streetworks		

Refer all questions regarding this Request for Quotation to Geri Raymond at (505) 334-7667 or email graymond@aztecnm.gov

1. RFQ should be based on FOB Destination with freight allowed and must indicate normal lead time and/or best delivery date on the items listed.
2. This RFQ and any required documents must be received by the Department indicated on the RFQ by the date and time indicated.
3. All supplies and components quoted shall be new unless indicated otherwise. Any quotes submitted for used or reconditioned supplies or components will be considered non-responsive. Quotes must be valid for a minimum of 30 days.
4. The RFQ Number shall appear on all quotations and related correspondence.
5. In-State/Resident Vendor Preference: Will only be applied to those Bidders who have been issued a certification number from the State of New Mexico Taxation & Revenue Department and return a copy of their certificate with their bid. Resident Veterans Preference is separate from the in-state preference and is not cumulative with that preference.
6. RFQ's may be returned via email, fax or USPS. (Reference Item #2)
7. By law (Section 13-1-191, NMSA, 1978) the City is required to inform Vendors of the following: (1) it is a third-degree felony under New Mexico law to commit the offense of bribery of a public officer or public employee (Section 30-24-1, NMSA, 1978); (2) it is a third-degree felony to commit the offense of demanding or receiving a bribe by a public officer or public employee (Section 30-24-2, NMSA, 1978); (3) it is a fourth-degree felony to commit the offense of soliciting or receiving illegal kickbacks (Section 30-41-1, NMSA, 1978); (4) it is a fourth-degree felony to commit the offense of offering or paying illegal kickbacks (Section 30-41-2, NMSA, 1978).
8. Conflict of Interest: Bidder warrants that it presently has no interest and will not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of service under this contract. Bidder must notify the City's Chief Procurement Officer if any employee(s) of the requesting department or the Purchasing Office have a financial interest in the Bidder. If yes, the Bidder must specify the employee(s) name in their proposal.
9. Debarment, Suspension, and Ineligibility: By submitting a response (RFQ/Bid/Offer) to this solicitation, the business (Bidder/Offeror/Contractor) represents and warrants that it is not debarred, suspended, or placed in ineligibility under the provisions of Federal Executive Order 12549.

DATE	
SUBMITTED BY (Printed Name)	
SIGNATURE (To be valid offer, bidder must sign here)	
COMPANY NAME	
ADDRESS	
TELEPHONE	
FAX	
EMAIL ADDRESS	
FED TAX ID NUMBER	
NM CRS ID NUMBER	

DESCRIPTION

The Navion™ roadway LED luminaire combines world class optical performance, energy efficiency, and outstanding versatility to meet the requirements of any roadway application. Patented AccuLED Optics™ technology delivers unparalleled uniformity and budget-beating operating costs for municipal streets and highways. UL/cUL listed for wet locations, IP66 enclosure rating available.

SPECIFICATION FEATURES

Construction

Heavy-duty cast aluminum housing and door with extruded aluminum heat sink. Tool-less entry, hinged removable power tray door for easy maintenance. 3G vibration rated.

Optics

Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory is available. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

Electrical

LED drivers are mounted to the removable die-cast aluminum door for optimal heat sinking and ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 10kV UL 1449 surge protection standard. Thermal management incorporates both conduction and convection to transfer heat rapidly away from the LED source for optimal efficiency and light output. Ambient operating temperature from -40°C to 40°C; 50°C ambient capability available. Standard three-position tunnel type compression terminal block. Greater than 90% lumen maintenance expected at 60,000 hours. Light squares are IP66 enclosure rated. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting

Four-bolt/two-bracket slipfitter with cast-in pipe stop and 2.5° leveling steps. Fixed-in-place bird guard seals around 1-1/4" or 2" mounting arms.

Finish

Housing and cast parts finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is anodized aluminum. Consult your Eaton's Cooper Lighting business representative for a complete selection of standard colors.

Warranty

Five-year warranty.

STREETWORKS™



Catalog #		Type
Project		
Comments		Date
Prepared by		



NVN NAVION

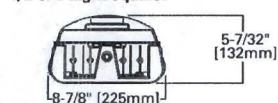
1-6 Light Squares
LED

ROADWAY LUMINAIRE

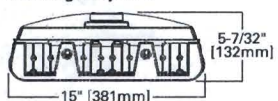


DIMENSIONS

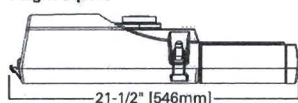
1, 2 or 3 Light Squares



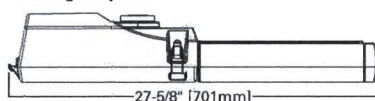
4 or 6 Light Squares



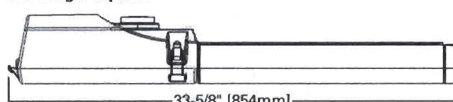
1 Light Square



2 or 4 Light Squares

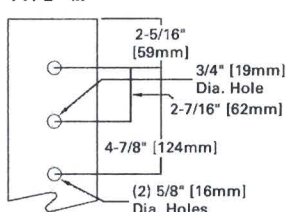


3 or 6 Light Squares



ARM DRILLING

TYPE "M"



OPTIONAL ARM

22" Upsweep Arm



CERTIFICATION DATA

UL/cUL Wet Location Listed
ISO 9001
IP66 Light Squares
3G Vibration Rated
ARRA Compliant
DesignLights Consortium® Qualified*

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60 Hz
347V/60 Hz, 480V/60 Hz
-40°C Minimum Temperature
+40°C Ambient Temperature Rating

EPA

Effective Projected Area (Sq. Ft.):

(Fixture Only)
1 Square 0.89
2 Square's 1.0
3 Square's 1.2
4 Square's 1.2
5 Square's 1.4
(Fixture with AI Arm)
1 Square 1.2
2 Square's 1.3
3 Square's 1.5
4 Square's 1.5
5 Square's 1.7

SHIPPING DATA

Approximate Net Weight:
1 Square 17 lbs. (7.7 kgs.)
2 Square's 22 lbs. (10.0 kgs.)
3 Square's 26 lbs. (11.8 kgs.)
4 Square's 31 lbs. (14.1 kgs.)
5 Square's 36 lbs. (16.3 kgs.)

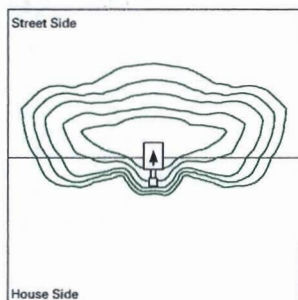
Cooper Lighting
by EATON

*www.designlights.org

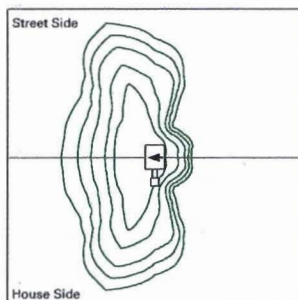


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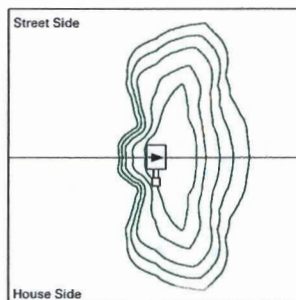
OPTIC ORIENTATION



Standard



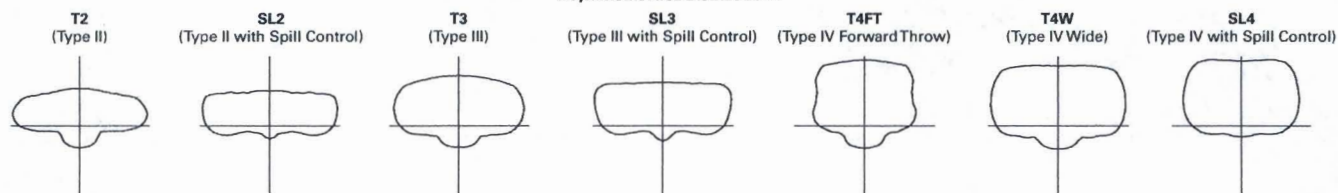
Optics Rotated Left @ 90° (L90)



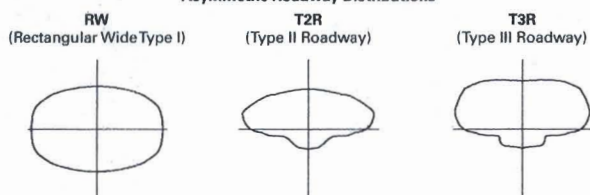
Optics Rotated Right @ 90° (R90)

OPTICAL DISTRIBUTIONS

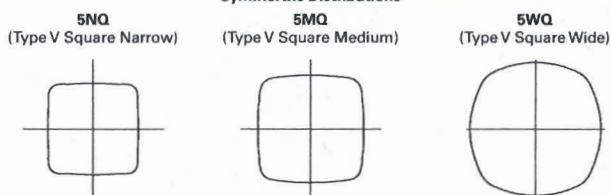
Asymmetric Area Distributions



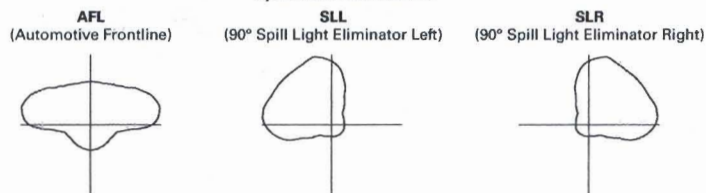
Asymmetric Roadway Distributions



Symmetric Distributions



Specialized Distributions



NOMINAL POWER AND LUMENS (1A)

Number of Light Squares		1	2	3	4	6
Drive Current		1A	1A	1A	1A	1A
Nominal Power (Watts)		56	107	157	213	315
Input Current @ 120V (A)		0.47	0.9	1.31	1.79	2.64
Input Current @ 208V (A)		0.28	0.51	0.74	1.02	1.48
Input Current @ 240V (A)		0.25	0.45	0.65	0.9	1.3
Input Current @ 277V (A)		0.23	0.41	0.59	0.82	1.18
Optics						
T2	Lumens	5,155	10,278	15,285	20,587	30,396
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4
T2R	Lumens	5,519	11,004	16,364	22,040	32,542
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4
T3	Lumens	5,268	10,504	15,620	21,038	31,062
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4
T3R	Lumens	5,357	10,680	15,883	21,392	31,585
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4
T4FT	Lumens	5,308	10,584	15,739	21,198	31,299
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5
T4W	Lumens	5,205	10,376	15,431	20,784	30,686
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5
SL2	Lumens	5,163	10,294	15,309	20,619	30,444
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4
SL3	Lumens	5,260	10,487	15,595	21,004	31,013
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4
SL4	Lumens	5,024	10,017	14,897	20,064	29,625
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G5
5NQ	Lumens	5,414	10,795	16,053	21,621	31,923
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2
5MQ	Lumens	5,609	11,183	16,630	22,398	33,071
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4
5WQ	Lumens	5,479	10,924	16,246	21,881	32,307
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4
SLL/SLR	Lumens	4,652	9,274	13,792	18,576	27,427
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4
RW	Lumens	5,382	10,730	15,957	21,492	31,732
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
AFL	Lumens	5,396	10,759	16,000	21,550	31,818
	BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3

* Nominal data for 4000K CCT.

NOMINAL POWER AND LUMENS (700mA)

Number of Light Squares		1	2	3	4	6
Drive Current		700mA	700mA	700mA	700mA	700mA
Nominal Power (Watts)		38	72	105	138	210
Input Current @ 120V (A)		0.32	0.59	0.86	1.14	1.72
Input Current @ 208V (A)		0.21	0.36	0.51	0.67	1.02
Input Current @ 240V (A)		0.19	0.32	0.45	0.59	0.9
Input Current @ 277V (A)		0.2	0.29	0.40	0.51	0.80
Optics						
T2	Lumens	3,768	7513	11,172	15,047	22,217
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3
T2R	Lumens	4,034	8,043	11,961	16,109	23,785
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3
T3	Lumens	3,851	7,677	11,417	15,377	22,704
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4
T3R	Lumens	3,916	7,806	11,609	15,636	23,086
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4
T4FT	Lumens	3,880	7,736	11,504	15,494	22,877
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4
T4W	Lumens	3804	7,584	11,279	15,191	22,429
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4
SL2	Lumens	3,774	7,524	11,190	15,071	22,252
	BUG Rating	B1-U0-G1	B1-U0-G2	2-U0-G2	B2-U0-G3	B3-U0-G4
SL3	Lumens	3,845	7,665	11,399	15,352	22,668
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4
SL4	Lumens	3,672	7,322	10,888	14,665	21,653
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4
5NQ	Lumens	3,957	7,890	11,733	15,803	23,333
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2
5MQ	Lumens	4,100	8,174	12,155	16,371	24,172
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
5WQ	Lumens	4,005	7,985	11,874	15,993	23,614
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
SLL/SLR	Lumens	3,400	6,779	10,081	13,577	20,047
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4
RW	Lumens	3,934	7,843	11,663	15,709	23,194
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
AFL	Lumens	3,944	7,864	11,695	15,751	23,256
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G1	B2-U0-G2	B3-U0-G2

* Nominal data for 4000K CCT.

NOMINAL POWER AND LUMENS (530mA)

Number of Light Squares		1	2	3	4	6
Drive Current		530mA	530mA	530mA	530mA	530mA
Nominal Power (Watts)		30	54	80	105	159
Input Current @ 120V (A)		0.25	0.45	0.66	0.86	1.32
Input Current @ 208V (A)		0.17	0.28	0.39	0.51	0.78
Input Current @ 240V (A)		0.17	0.25	0.35	0.45	0.7
Input Current @ 277V (A)		0.19	0.24	0.32	0.40	0.64
Optics						
T2	Lumens	3,011	6,002	8,926	12,022	17,750
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3
T2R	Lumens	3,223	6,426	9,556	12,871	19,004
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3
T3	Lumens	3,077	6,134	9,122	12,286	18,140
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3
T3R	Lumens	3,128	6,237	9,275	12,492	18,445
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3
T4FT	Lumens	3,100	6,180	9,191	12,379	18,278
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3
T4W	Lumens	3,039	6,060	9,011	12,137	17,920
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3
SL2	Lumens	3,015	6,012	8,940	12,041	17,778
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3
SL3	Lumens	3,072	6,124	9,107	12,266	18,110
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3
SL4	Lumens	2,934	5,850	8,699	11,717	17,300
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4
5NQ	Lumens	3,162	6,304	9,374	12,626	18,642
	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2
5MQ	Lumens	3,275	6,530	9,711	13,080	19,312
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
5WQ	Lumens	3,200	6,380	9,487	12,778	18,866
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
SLL/SLR	Lumens	2,716	5,416	8,054	10,848	16,017
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3
RW	Lumens	3,143	6,266	9,318	12,551	18,531
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2
AFL	Lumens	3,151	6,283	9,344	12,585	18,581
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C	> 90%	> 170,000

ORDERING INFORMATION

Sample Number: NVN-AE-01-E-U-T3R-10K-4-AP

Product Family ¹	Light Engine	Number of Light Squares ²	Driver	Voltage	Distribution	Surge Protection
NVN=Navion	AE=1A Drive Current	01=1 02=2 03=3 04=4 06=6	E=Non-Dimming D=Dimming	U=Universal (120-277V) 8=480V ³ 9=347V	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	10K=Cooper 10kV Surge Module (Standard) X=Driver Surge Protection Only ⁴
Options (Add as Suffix)						
2L=Two Circuits ⁵ 7030=70 CRI / 3000K ⁶ 7060=70 CRI / 6000K ⁶ 530=Drive Current Factory Set to 530mA ^{7,8} 700=Drive Current Factory Set to 700mA ^{7,8} 4=NEMA Twistlock Photocontrol Receptacle 4N7=NEMA 7-PIN Twistlock Photocontrol Receptacle IP66=IP66 Rated HA=50°C High Ambient L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right				MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ⁹ MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ⁹ MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ⁹ MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height ¹⁰ MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height ¹⁰ MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height ¹⁰ K=Level Indicator AI=Site Arm Included ¹¹ LCF=Light Square Trim Plate Painted to Match Housing HSS=Factory Installed House Side Shield ¹² FADC=Field Adjustable Drive Current ⁸ DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8'-16' Mounting Heights ^{13,14} DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16'-40' Mounting Heights ^{13,14}		
Color				Accessories (Order Separately)		
AP=Grey (Standard) BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White A=Raw Aluminum Unfinished				OA/RA1016=NEMA Photocontrol - Multi-Tap OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=NEMA Photo Control - 120V OA1223=10kV Surge Module Replacement FSIR-100=Wireless Configuration Tool for Motion Sensor ¹⁵ LS/HSS=Field Installed House Side Shield ¹⁶		

Notes:

- DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- Standard 4000K CCT and nominal 70 CRI.
- Not recommended for use with un-grounded, delta configured systems.
- Consult factory for driver surge protection values.
- Low-level output varies by number of light squares specified. Consult factory. Requires two or more light squares. No terminal block with 2L options.
- Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Navion luminaire product page on the website.
- 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Navion luminaire product page on the website.
- Not available with any MS/DIM or DIMRF options.
- Sensor mounted externally. Must specify dimming driver. Consult factory for more information.
- Sensor mounted externally. Available in 2, 3, 4 or 6 Light Square configurations. Replace "X" with number of Light Squares in low output mode. For ON/OFF operation, replace "X" with "0". Maximum two Light Squares in low output mode. Not available with dimming driver. No terminal block with bi-level operation.
- 22" upsweep arm. Round pole adapter included.
- Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
- LumaWatt wireless sensors are factory installed and require network components RF-EM1, RF-GW1 and RF-ROUT1 in appropriate quantities. See www.cooperlighting.com for LumaWatt application information.
- LumaWatt wireless system is not available with 4N7 (Not needed) or with FADC, 530mA, 700mA or 2L options.
- This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your Eaton's Cooper Lighting business representative for additional details.
- One required for each light square.